

Children's Struggle and Psychological Impact during the COVID19 Pandemic.

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This Report Partial Fulfillment of the requirements for the
Degree of Master of Science in Computer Science and Engineering

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DAFFODIL INTERNATIONAL UNIVERSITY

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JANUARY 2022

APPROVAL

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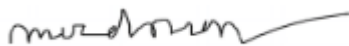
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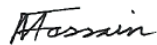
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ACKNOWLEDGEMENT

First I express my heartiest thanks and gratefulness to almighty God for his divine blessing makes it possible for us to complete the final year thesis successfully.

I am really grateful and wish my profound indebtedness to **Dr. Md. Fokhray Hossain, Associate Dean and Professor**, Faculty of science and information Technology (FSIT), Department of CSE Daffodil International University, Dhaka. To carry out this thesis the thing which helped us most is a deep Knowledge and keen interest of my supervisor in the field of “*Children’s Struggle and Psychological Impact during the COVID19 Pandemic*”. His endless patience, scholarly guidance, continual encouragement, constant and energetic supervision, constructive criticism, valuable advice, reading many inferior drafts and correcting them at all stages have made it possible to complete this research.

I would like to express my heartiest gratitude to my supervisor Dr. Md. Fokhray Hossain, Associate Dean and professor, Faculty of science and information Technology (FSIT) and all of my teacher and Professor Dr. Touhid Bhuiyan Head, Department of CSE, for his kind help to finish our project and also to other faculty member and the staff of CSE department of Daffodil International University.

I would like to thank survey participants and my entire course mate in Daffodil International University, who took part in this discussion while completing the course work.

Finally, I must acknowledge with due respect the constant support and patients of our parents.

ABSTRACT

This paper discusses children's modified life style and their struggle during COVID 19. We can observe how children's psychology is impacted for modified perspectives derived by COVID 19. Critical scenarios of socio economic transformation are analyzed properly from different points of view. Income irregularity, job fluctuation, family members death due to COVID19, distance learning teaching skill shortage, imbalance in household work and lack of recreation are the crucial parameters for parent's mental health distortion. Parent's mental health diversion has a great impact on children's psychology. Children's psychological sufferings tend to conflict with parents, lose creative power and interest in study. Very dangerous side of children's psychological impact on society are drop out, child labor, early marriage, depression, drug addiction and suicide attempt. Insufficient arrangement of mental health screening is a vital cause of children's psychological sufferings. Real facts come out from survey responses of parents and their children. Proposed solution is justified by parents and children who were the ultimate sufferer.

Keywords: COVID19 Pandemic, Children Psychology, Mental Health, Parent-Child Conflict, Home Schooling, Home Environment.

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TERMS AND NOTATIONS

| Term | Description |
|-------------------|---|
| SWOT | Strength, Weakness, Opportunities and Threats |
| Authority | Education ministry, Health ministry, Educational institute managing committee |
| Family time | Holiday, weekend, when all family members in their house |
| SES | Socio Economic Status |
| RMG | Ready Made Garments |
| WHO | World Health Organization |
| Lockdown | A restriction policy for people or community to stay where they are |
| Pandemic | A pandemic is an epidemic of an infectious disease |
| Quarantine | A quarantine is a restriction on the movement of people |
| Distance Learning | Education of students who may not always be physically present at a school. |
| URL | A Uniform Resource Locator (URL), basically mean a web address |
| CSV | comma-separated values file is a delimited text file |
| Cyber bullying | bullying that takes place over digital devices like cell phones, computers |
| Screen addiction | Long time passes on mobile, computer |
| Connectivity | Internet |
| Infrastructure | Electricity, Internet, Computer, Software |

CHAPTER 1

Introduction

1.1 Background Study

On January 7, 2020, the Chinese specialists recognized another kind of infection from the Coronaviridae family as the causative specialist of the flare-up, which has been called SARS-CoV-2. The International Wellbeing Regulations Emergency Committee announced the current episode of new Covid as a General Health Emergency of International Importance (ESPII) at its gathering of January 30, 2020 and the WHO named this new disease COVID-19 (for its acronym in English, CoronaVirus Infectious Disease - 19. On March 11, the WHO declared: “We have reached the conclusion that COVID-19 can be considered a pandemic” The COVID-19 pandemic has led to temporary school closures in many countries around the world. As a result, hundreds of millions of children were forced to do their schoolwork at home for weeks in a row. During this period, parents often had to assist their children with their school work. Parents might have experienced difficulties regulating the behavioral problems of their child that can occur during their help with schoolwork. In the present study, we examined parent factors and social contextual factors (e.g., household chaos and school support) that may have contributed to parents’ sense of self-efficacy in teaching young children during the COVID-19 pandemic as well as the extent to which these parental self-efficacy beliefs in teaching in turn contributed to parent–child conflict around schoolwork. The world is now adapting toward the online education system but it too comes with many limitations and problems. When the children and learners are now out of the educational institutions and restricted to their homes, how well are their educational demands being fulfilled? Now learners are at home, spending most of their time with the family so the environment of the home should play an important role in helping to meet the objectives of teaching-learning and proper mental condition of children.

To start this research I talked with several children, parents and felt the situation. I also read some papers. Paper summary are given below:

Parent–Child Conflict during Homeschooling in Times of the COVID-19 Pandemic discussed parent child conflict during covid 19 pandemic. Because parents were

inefficient at teaching their children. Parents also failed to manage the study load imposed by school. Parents were also disturbed for their socio economic status degradation during the pandemic that is also a cause of conflict with their children.

Children's Well-being during the COVID-19 pandemic: Relationships with attitudes, family structure, and mothers' Well-being discussed about their findings which they got from 87 children and their mother. They also found positive sequences among child age, attitudes and well-being.

A Study on the Prevalence of Psychological Impact during the COVID19 Pandemic talked about pressure, uneasiness and wretchedness because of preventive measures pronounced by WHO.

Need Of A Proper Home Environment Conducive To Promote Creative Potential Of The Learners During Covid19 Crisis discussed about shortfalls of online teaching, the importance of nurturing creative potential of the learners, the hurdles in developing creative potentials among the learners by online education and importance of environmental factors in developing creative potentials of the learners. Wellbeing Promotion and Health Education at School during COVID19 Pandemic talked about multi directional activities in the field of wellbeing advancement and wellbeing instruction led by instructive organizations, particularly during the COVID19 pandemic.

1.2 Aim of the Research:

To analyze the psychological effects that the current coronavirus pandemic is having on children. How and in which context they are facing difficulties. What are the impact of those difficulties on others like family members, society and so on. How to get rid of analyzed context.

1.3 Problem Statement:

During this covid 19 pandemic children and other family members are confined in home. Educational activities running through online platforms. Outdoor social and recreational activities are restricted. After following pandemic restrictions it is very tough to ensure psychological fitness at the day which is a big problem.

1.4 Research Methodology:

Participants: Parents will receive an email to inform about the study and mental conditions, and will be invited to participate.

Procedure: If they are interested, they could click on a link that led them to a google form on which they are informed about the privacy and could provide informed consent. Only after active consent is given, participating parents could fill out the questionnaire. The questionnaire will be start with questions about background characteristics such as gender, age, and educational level, and continue with questions about the amount of help provided before and during school closure, about mothers' perceptions of conflict, closeness, and teaching self-efficacy in relation to their child, household chaos, perceived stress and support by school. The questionnaire will take on average 15 minutes to complete. We will use short sentences and easily understandable questions. Items will be written in a large font, including instructions, items, and scale points.

Data Analysis: We will conduct path analysis, descriptive statistics, data mining techniques and associated tools to analyze collected data and trace relation between various parental and social contextual factors and mother-child conflict when mothers helped with homework during the school closure. Our principle interest is in full intervention, however we will likewise analyze whether this model could be improved by permitting a few direct impacts of parent and social logical variables on conflict around home work.

1.5 Proposed Solution:

Based on data analysis results we will find a pattern, scenario and data set for which we can propose a good solution to maintain children's psychological fitness during and after the pandemic.

1.6 Conclusion:

The COVID-19 pandemic infection leads to psychological sequelae and that existing severe mental illness. Children are our next generation and after some years they will lead the world. So it is very important to ensure their growth with proper mental fitness. After the pandemic all academic programs will not come out from distance learning so there will always be a chance to hamper children's mental health. We hope our research

will help to develop home environments, will help to increase parental self-efficiency which will resolve children's physiological problems.

CHAPTER-2

Research & Survey Design

2.1 Introduction

Before starting this research we fixed a definite objective. We also set some research questions. We analysis our survey questions, responses in such a way so that we can get answers to research questions and propose some recommendations.

2.1.1 Research objectives

1. To research the implications of the coronavirus pandemic on children's physiology.
2. To investigate the implications of the coronavirus pandemic on the relevant facts like parents' mental health, their mismatch teaching skill, socio economic status degradation, home environment, parents - children conflict and so on.
3. To investigate the struggle and impact due to physiological disruption during coronavirus pandemic.
4. To propose suggestions in mitigating the bad impact of coronavirus pandemic on children's physiology.

2.1.2 Research questions

1. What are the prime factors which have a great impact on children's psychology?
2. How are children struggling due to physiological destruction?
3. What are the impacts due to the children's physiological destruction on their life and their surroundings?
4. What suggestions may be proposed in mitigating the bad impact of coronavirus pandemic on children's physiology?

2.2 Research design

Our research structure is a methodological format for policy that works as an interface between research questions and the research implementation. The sample data size, type, sampling method for data mining, survey participants, survey questions, result analysis and recommendations all are parts of our research design.

2.3 Survey design

We are using a combination of both qualitative and quantitative research design so that we can get both comprehensive and holistic data findings. We prepared our survey question and expected response in such a way which ensures proper data mining to fulfill research objectives.

2.4 Survey data Collection

We shared an online survey form URL to parents and children with clear instructions about how to respond to our survey questions. Survey data response mirrors their own life emergency during the Covid pandemic so we are committed to protect their personal details.

2.5 Survey data findings

After getting quality full filtered data we used a thematic approach on qualitative data to extract meaningful and relevant findings. Data mining technique is applied on both qualitative and quantitative data to visualize survey scenarios through graphs and tables.

2.6 Conclusion

Aim of this chapter was to visualize our research and survey design. The total sample size was 2600. Response saved in CSV format and processed using a data mining tool.

CHAPTER-3

Children Psychology

3.1 Introduction

Children psychology is one of the main parts of brain research. This specific branch centers on the brain and conduct of kids from pre-birth improvement through adolescence. Children psychology manages how kids develop genuinely, yet with their psychological, enthusiastic, and social advancement also.

Specialists focus only on the many impacts that contribute to normal child improvement, yet in addition to different variables that may prompt mental issues during childhood. Self-esteem, school, parenting, social pressures, and other subjects are all of tremendous interest to child psychologists who strive to help kids develop and grow in ways that are healthy and appropriate.

3.2 Children Psychology in Natural situation

The way of life a child lives contributes a bunch of qualities, customs, shared suspicions and methods of living that impact improvement all through the life expectancy. Culture might assume a part in how children identify with their folks, the sort of schooling they get and the kind of childcare that is given.

Children's brain science is the investigation of subliminal and cognizant youth improvement. Kid clinicians see how a kid collaborates with their folks, themselves, and the world, to comprehend their psychological turn of events [11].

3.3 Importance of children psychology

Everybody needs their kid to have a solid turn of events, yet it's not in every case clear in case a child's conduct is an indication of an ordinary stage being developed or an indication of an anomaly. Children clinicians can assist you with understanding the distinction. Understanding the typical and unusual mental examples of a kid can assist guardians with seeing how to best impart and associate with their children, show their kid methods for managing pressure for supervising feelings, and help their child advance and thrive in each new developmental stage.

Kid clinicians can likewise recognize strange practices early, assist with distinguishing the foundation of normal conduct issues like learning issues, hyperactivity, or nervousness, and assist children's with working through youth injury. They can likewise assist with forestalling, assess, and analyze formative postponements or anomalies like chemical imbalance.

Kid brain science concentrates on the collaboration of a couple of fundamental spaces of advancement [8].

3.4 Physical Development

Actual improvement in children's is commonly an anticipated arrangement of occasions. Our children hold their head up, turn over, creeps, strolls, and runs, in a specific order. Our Child Psychologist can help our pediatrician in noticing our kid's actual turn of events, and in case there are any anomalies that could show formative inconsistencies. Children Psychologists will notice a kid's movement toward the achievements of advancement to guarantee that your kid is genuinely growing ordinarily. Significant deferrals in actual advancement might uncover other fundamental formative issues that would then be able to be tended to from the beginning [7].

3.5 Cognitive Development

The clinical comprehension of youth intellectual advancement has extraordinarily changed over the New Year's. We currently realize that even infants know about their current circumstance and are keen on it, even before they have the language to communicate that.

Intellectual advancement alludes to the scholarly learning and points of view of a child. It incorporates the perception and comprehension of their general surroundings, language learning, memory, dynamic, critical thinking, how the kid utilizes their creative mind, and how the children utilizes fundamental thinking. These variables are affected by a children's hereditary qualities and climate [8].

3.6 Social Development

Enthusiastic and social advancement are profoundly entwined. Enthusiastic advancement alludes to how the children feels, comprehends, and communicates their feelings. Enthusiastic advancement is communicated in extremely small kids through the outflow of fundamental feelings like dread, satisfaction, outrage, and misery. As the children grow, more perplexing feelings like certainty, trust, culpability, and pride arise. Enthusiastic improvement additionally incorporates a kid's capacity to feel and comprehend the feelings of others through sympathy. Figuring out how to control and communicate feelings fittingly is hard for some kids. Assisting kids with understanding their feelings early can capably affect current and future enthusiastic turn of events. A Child Psychologist can assist your kid with understanding and express their feelings in a sound, good way.

Enthusiastic advancement profoundly illuminates the social turn of events. This is valid in light of the fact that the manner in which a kid feels, comprehends, and communicates their sentiments straightforwardly affects how they connect with others. Social improvement is concerning how the kid fosters the qualities, mindfulness, and social abilities important to identify with individuals around them; their folks, peers, authority figures, and creatures. A kid's initial connections can tremendously affect their improvement if they are old enough to fit social abilities. Trust, fellowship, peacemaking, and regard for power are instances of social turn of events.

Relationships with peers and adults have an effect on how children think, learn and develop. Families, schools and peer groups all make up an important part of the social context.

Social class can likewise assume a significant part in kid advancement. Financial status depends on various variables including how much instruction individuals have, how much cash they procure, the work they hold and where they live.

Kids brought up in families with a high financial status will more often than not have more prominent admittance to promising circumstances, while those from families with lower financial status might have less admittance to such things as medical services, quality nourishment, and instruction. Such factors can significantly affect kid brain research [8].

3.7 Conclusion

Children psychology is a significant part of family wellbeing. It gives guardians the assets to help their children's advance through the phases of improvement and gives doctors a more profound investigation of the psychological wellness and potential difficulties a kid may look at concerning learning or social contrasts, or formative postponements.

Kid Psychology ought not to be a receptive measure. We have to make it part of our proactive family wellbeing plan for today.

CHAPTER-4

Children Psychology in Covid 19

4.1 Introduction

The pandemic brought about by the Covid bears a huge test for social orders around the world. To dial back the disease rate, numerous networks organized lockdowns that elaborate broad limitations of public life. Occasions and get-togethers were dropped, shops and sporting offices were shut, and representatives needed to telecommute, if conceivable. What's more, instructive foundations, for example, schools and colleges were shut and started to move showing online. Besides these limitations, state run administrations suggest and authorize social separating, that is, staying away from others, including loved ones from various families. Thus, the COVID-19 pandemic hugely diminishes social communications and public life. On top of that, guardians' obligations expanded. Since the vast majority of the children's had no admittance to kindergarten or school for a really long time, they must be dealt with the entire day, including educating commitments. The aggregation of obligations hence reasonably establishes an especially distressing circumstance for guardians and families. We expected to distinguish the serious issues for children's and elements that may weaken the hazardous results of the pandemic.

Some responsible factors to affect Children Psychology in coronavirus pandemic are described below:

4.2.1 Insufficient home space:

Homes are the place where individuals hope to be protected, agreeable, and sound. However, this isn't true for a great many children's who are in danger of chronic weakness resulting in light of issues with lodging quality, lodging shakiness, and exorbitance. Albeit over a hundred years of perception and examination have reported what family triggers mean for children's' actual wellbeing, helpless lodging can be similarly damaging to their passionate, mental, and social wellbeing and improvement. Since such countless basic formative periods are gathered in youth, small kids might be most in danger, despite the fact that examination tracks down associations among lodging and psychological well-being during different times of life too. As researchers attempt to appreciate the reasons behind these complex mental effects, policymakers,

dwelling planners, benefactors, and funders should observe that housing quality sets up the structure for kids' passionate health.

Regardless of whether in a city with amassed destitution or in a provincial local area, studies have followed youngsters' lodging surroundings, mental wellbeing, and improvement over the long haul, tracking down associations for offspring, all things considered.

Utilizing information on youngsters going generally in age, a group of kid improvement analysts observed that kids from low-pay families living in concentrated destitution were more formatively hurt by helpless lodging quality than by private flimsiness, exorbitance, or other lodging factors. Youngsters who lived with releasing rooftops, uncovered wires, bother invasion, and different issues were bound to display enthusiastic and social issues, which showed themselves through uneasiness, gloom, and different disguises in certain kids, and all the more obviously forceful practices and rule breaking in others. By puberty, low quality lodging was related with lower perusing and math scores on government sanctioned tests.

Another review, which followed youngsters in country regions starting at age 9, found following 15 years that helpless lodging conditions-including actual quality, home risks, swarming, and mess were related with more terrible mental wellbeing quickly and over the long haul. Like the concentrate above, kids communicated poor mental wellbeing in both inner and outside ways. Lodging quality lacks were likewise connected with sensations of powerlessness over the present moment.

The way from an actual peril to an actual damage is direct, yet what's behind the relationship between helpless lodging quality and helpless youngster psychological wellness? To some extent, maternal mental trouble. Analysts have observed that low quality lodging might make pressure for guardians, increment their own psychological well-being issues, and cutoff their capacity to control family exercises. A strategy research brief on the theme plainly states how lodging issues can change a home from a place of refuge over to a psychological danger: "Hence, rather than being a wellspring of safety and getaway from life's tensions, a home with quality inadequacies might add to different anxieties experienced by helpless families, prompting an aggregate adverse consequence on prosperity."

Helpless day to day environments can likewise keep kids from taking part in fun loving and social exercises, which are valuable to their mental, social, and enthusiastic prosperity. Confined or risky conditions limit kids from investigating, interfacing with, and gaining from their general surroundings. As one analyst states, "play assists youngsters with growing new abilities that lead to upgraded certainty and the flexibility they should confront future difficulties."

Having a huge number of kids residing in low quality homes prompts adverse impacts for society. When lodging issues intensify kids' burdensome or forceful conduct, it can influence their companions, add to educator burnout, decrease school execution evaluations, and lead to conduct based calls that haul guardians jobless and prevent usefulness. What's more, that is simply temporary.

Proof shows that mental issues experienced during adolescence can diminish grown-up income (by one-fourth by age 50) and lessen one's odds of building up long haul, stable connections. Moreover, uneasiness, discouragement, and animosity in kids can prompt deep rooted psychological sickness, and the monetary weight of dysfunctional behavior is enormous: the World Health Organization assessed that by 2030, the worldwide expense of psychological instability will be more than \$6 trillion.

Helpless lodging quality is in this way an aggregate issue. Guaranteeing satisfactory lodging conditions upholds kids' sound turn of events, helps their schools and homerooms succeed, reinforces the economy, and decreases current and future medical care costs.

4.2.2 Lack of congenial atmosphere:

The central free factor in this investigation is lodging swarming. We catch the degree of swarming in the home through a constant proportion of people per room. The impacts of swarming on a child's prosperity might start to influence that kid at a higher proportion of people per room. A consistent measure empowers us to catch these conceivable outcomes. In the numerator of lodging, swarming is an amount of the quantity of individuals in the family and the quantity of non-relatives living in the lodging unit. The denominator is the quantity of rooms and different rooms in the lodging unit, excluding the kitchen.

Helpless lodging conditions effectively affect various parts of a kid's life. These adverse consequences during youth can continue all through life, at last influencing their future financial status and, reasonably, their grown-up prosperity. Recognize parts of a children's living climate that might demonstrate destructive to forestall them. In case lodging organizations and networks are furnished with data on the malicious impacts of lodging swarming, they can configure lodging programs that alleviate the impacts of swarming and structure guidelines for fitting family unit size. The living climate, net of financial status, is a region that can add to the intergenerational transmission of social disparity. By better understanding the job of lodging in the existence of kids, we can guarantee a sound living space and diminish instructive, conduct and actual wellbeing aberrations.

4.2.3 Outdoor activity restricted:

It is important to take note of that actual work doesn't simply help actual wellbeing, there is likewise a solid relationship between actual work levels and psychological wellness. In the general population, this link is incredibly important, but in those with a disability it is integral given that many of the conditions that these individuals have lived with tend to have a negative impact on their mental health. Overall, respondents reported a negative impact on the mental health of their child during the lockdown restrictions. Curiously, even the subgroup of respondents who announced positive actual changes in their kid during lockdown, to be specific participating in more family and outside exercises, additionally still detailed emotional wellness over the lockdown time frame to be "a piece more regrettable". This is in line with other research during the pandemic, which showed a decrease in mental health.

There are various purposes behind a decrease in psychological wellness and an expansion in conduct issues. To start with, the pandemic is probably going to possess an upsetting energy for all as far as the actual limitations, yet additionally the concern of the pandemic. With our example, the absence of admittance to offices and expert groups is probably going to adversely affect emotional wellness not simply as far as the decrease in active work, yet in addition not escaping the home so much and lessening social contact. For instance, it has been shown that social commitment with others who are encountering a similar comprehension of their incapacity empowers a feeling of enthusiastic connectedness with individuals that an individual may not get inside their

family circle. Moreover, it has been perceived that taking part in active work with peers who share normal ascribes can be a remunerating experience that makes individual satisfaction, good confidence, a sensation of mastery and a feeling of belonging. It warrants further examination concerning whether the psychological wellness advantages of actual work are connected with social contact. In particular, for children's and youthful grown-ups with inabilities, doing actual work in disengagement or with individuals who don't have similar properties, brought about by lockdown limitations, may not be as helpful to emotional wellness for what it's worth to actual wellbeing.

4.2.4 Distance learning challenges:

Without precedent for Bangladesh, the internet based instruction pattern has been generally presented. All things considered, in the field of assessment and instructing, this web-based pattern has effectively experienced some accidental circumstances, which have likewise been referenced in the past writing.

Associating with online study halls is their first experience, so it has been seen that they experience issues adjusting suitably to this pattern in light of the fact that making learning and taking in encounters in virtual homerooms from customary homerooms to computer-based preparing is altogether different for them. Second, with most understudies remaining at home in various pieces of the country during the lockdown, web offices are still scant in rustic regions, as understudies utilize versatile web that upsets internet correspondence because of helpless web signals. Furthermore, the web is still over the top expensive in our country. Third, there are some specialized issues identified with PC and cell phone boards, like low education. What's more, understudies and instructors are needed to download some applications like Google Meet, Zoom, FoxFi, Audiobook, and so on Because of the absence of involvement, now and then it seems, by all accounts, to be a test, and there is restricted web association time for these applications. Fourth, using time productively is a significant theme; for instance, Zoom can associate individuals online for 40 minutes, yet because of some specialized obstacles, understudies set aside effort to react in class. Understudies will get an opportunity to comprehend something as they participate in the semester. Fifth, it is hard for instructors to deal with everybody's notes and utilize them in their materials.

Coronavirus related school terminations in Bangladesh began on March 17, 2020 and have proceeded into 2021, influencing around 38 million understudies and near 1,000,000 educators. The public authority's principle reaction was through TV-based learning programs. Nonetheless, inside two or three months of school shutting obviously understudy learning, particularly among teenagers, was in danger.

A Bank review embraced in May 2020 showed that around 55% of Grade 9 payment beneficiaries don't approach TVs. Indeed, even among the individuals who do, just 43% of youngsters decided to stare at the TV-learning programs, the essential of remote getting the hang of during school terminations. There were no critical contrasts among male and female understudies as far as whether they watched the transmissions in the earlier week. However, there were significant differences by wealth. Among those with access to TV-learning, 45 percent of the richest students (in top-most wealthy quartile) watched TV-lessons, while only 36 percent of poorest students (in bottom wealth quartile) did.

The pandemic contrarily affected the general government assistance of teenagers in more than one way. Another Bank concentrate on shows that in June 2020 almost 34 percent of families met needed to scale back dinners for youths. Further, around half of teenagers detailed that they were investing less energy in instruction than before the lockdown, with 94% revealing expanded time on family tasks or childcare. Albeit the thing that matters isn't genuinely huge, there is proof that young ladies are three rate focuses bound to invest expanded energy on family tasks and childcare since COVID-19 limitations started. Likewise stressing is that 25% of moms are worried that teenagers won't get back to school when schools resume, and this was similarly valid for moms of young men and young ladies.

4.2.5 Screen addiction:

Most schools, on a normal basis, connected with children's in internet based classes for 1-8 hours (meaning 3 hours) each day.

It was reasoned that after the lockdown practically every one of the children's made some screen memory increment of 2-3 times (5 hours/day from 2 hours/day) which diminished their active work.

Around half of these kids experience issues in resting subsequent to hitting the hay for 20 to an hour and 17% of the kids awaken in their rest around evening time and require 20 to 30 minutes to return to rest.

They likewise endured daytime languor, daytime sluggishness, migraine and crabbiness, weight gain, change in body and back torment and changed latrine propensities.

Grumblings of conduct change were additionally revealed in around 66% of the children's. Around 6-7 percent of the children's began having sleep time fears, obstinacy expanded to 32%. The rate of uncontrolled annoyance (fits) in kids likewise expanded by 30%.

To fulfill the need of online classes, around 38% families needed to purchase another gadget, which likewise put some monetary weight on them.

4.3 Impact of children psychological disorder

4.3.1 Phobia on study:

Therefore students are detached from the regular schedule of study and class, exams are paused, and they are scared about study. Some educational institutes suddenly start their distance learning and students are not habituated to interact properly in this virtual electronic system. Moreover teachers are shifting to an open book exam system which is also a vital cause of student's phobia. Finally they are at a fix about their academic career.

4.3.2 Long time to prepare study:

During the lockdown period all family members are staying in a house round the clock. Non-stop gossip and television noise is a barrier for preparing to study in a short time. Being a pause of physical school activity, students are relaxed to complete their study in time. Innovativeness has numerous definitions, and it can mean various things to everybody, contingent on one's viewpoint.

4.3.3 Losing creativity power:

One meaning of an invention is being able to transform new creative thoughts into the real world. At the point when this normal love of interest doesn't have a spot to flourish, we as a whole lose with regards to likely ability and business. Most, if not all, of our state funded schools, actually run on a modern sort of model, or like a production line—where youth are placed into little boxes as indicated by age and capacity as though in a sequential construction system. At the point when government funded schools don't line up with worldwide changes, we aren't laying out the groundwork for our children's today, nor later on.

As guardians and educators, it is our place to empower innovativeness and train our kids to accept it. We must lead and guide as a visual cue—allowing our children to find, embrace, and change their general surroundings. We must dominate or interfere with the regular cycle and love of learning. At the point when we do this to kids, it can repress the intrinsic associations between kids, lead to an absence of trust, and, in particular—closes innovativeness down. At the point when guardians and educators step in something over the top, we communicate something specific expressing, "You're not proficient, let me do it."

As grown-ups, we rapidly fail to remember the potential and momentous marvels our children's make. We can't take this chance away from them, as it leads not exclusively to our kids' misfortune yet to our future misfortunes also. The fate of business relies upon us. We must guide understudies. It isn't up to us to meddle with normal gifts, capacities, and imagination that prompts innovative virtuoso.

4.3.4 Less energetic:

During the lockdown period it is not possible to maintain a diet plan for all types of people. Supply and price are unstable and people lose their interest in having a healthy diet. It is also essential to maintain a strict plan for study. Social activity also keeps people refreshed and makes them energetic. Sufficient sleep has a good role on energetic people.

4.3.5 Drop out students:

As occurs in most different cases, the understudies having a place with poor and low-pay families have taken the primary brunt of the pandemic aftermath. The fundamental procuring individuals from these families either have lost positions or kinds of revenue during the pandemic when financial exercises stopped. A lot of these families had left urban areas and towns and got back to towns. Some have gotten back to towns and some others have returned. The vast majority of these families don't possess the ability to send back their children to schools.

Understudies of working class and wealthy groups of significant urban areas and towns, in any event, during the pandemic, didn't move away from their instructive foundations. A few schools, the English-medium ones, specifically, held web-based classes consistently while the significant Bengali-medium ones coordinated locally situated class tasks to keep the understudies locked in. The instructive organizations, evaluated as conventional, remained completely disengaged during the entire pandemic time frame. The two instructors and understudies of these establishments endured seriously. The understudies lost their scholastic meetings and the educators their compensation bundles.

The most impacted of all were the kindergartens that have mushroomed as of late in all edges of the country. It is said a large number of kindergartens have been shut down during the pandemic and the greater part of them are probably not going to come back to business once more. Educators of these schools have been compelled to take modest or random temp jobs for endurance. The occupation of an educator at kindergartens, however low-paying, still procures some regard for them.

The coordinated areas of the economy have concocted the assessed misfortunes they have experienced because of the pandemic. What's more the public authority brings a brief to the table for upgrade bundles to them.

The misfortune caused to the instruction area is hard to gauge. It is likewise unrealistic to compensate for multiple and a half scholastic years the understudies have lost. Additionally troublesome it is to anticipate when the typical cadence of scholastic life will be back. Understudies, instructors, gatekeepers are enthusiastically sitting tight for the arrival of business as usual to instructive exercises.

The harm, financial or in any case, brought about by the pandemic is enormous. A few areas would have the option to recuperate at some point or another. However, a couple may think that it is hard to arrange a rebound to the old state or near it.

To resolve the issues confronting the instructive organizations in essential, auxiliary and higher optional levels, the public authority should start a two dimensional program. The primary component of the program should target resuscitating all the upset training establishments to their pre-pandemic state. To get it going, the public authority should offer a one-time award in-help to the poor schools and universities.

The subsequent component guaranteeing the arrival of the Covid-time dropouts to schools and universities is somewhat troublesome. The issue is connected to the monetary prosperity of the guardians and watchmen of the dropouts. However grants and impetuses, both money and kind, for groups of such understudies may help.

4.3.6 Marriage and income involvement:

Notwithstanding critical advancement lately, Bangladesh has the fourth most noteworthy predominance of kid marriage on the planet. Coronavirus intensifies the hardships confronting a large number of young ladies. School terminations, separation from companions and encouraging groups of people, and rising neediness places young ladies at elevated danger of kid marriage," said Tomoo Hozumi, UNICEF Representative in Bangladesh. "Global Women's Day is a vital second to ponder what young ladies remain to lose in case we don't act desperately – their schooling, their wellbeing, and their fates."

Young ladies who wed in youth face quick and deep rooted outcomes. They are bound to encounter abusive behavior at home and more averse to stay in school. Children's marriage expands the danger of ahead of schedule and impromptu pregnancy, thus expanding the danger of maternal complexities and mortality. The training can likewise disengage young ladies from loved ones and prohibit them from partaking in their networks, negatively affecting their psychological wellness and prosperity.

Coronavirus is significantly influencing the existences of young ladies. Pandemic-related travel limitations and physical separating make it hard for young ladies to get to the medical care, social administrations and local area support that shield them from

children marriage, undesirable pregnancy and sexual orientation based savagery. As schools stay shut, young ladies are bound to exit instruction and not return. Employment misfortunes and expanded monetary frailty may likewise constrain families to wed their girls to ease monetary weights.

Around the world, an expected 650 million young ladies and ladies alive today were hitched in youth, with about a portion of those happening in Bangladesh, Brazil, Ethiopia, India and Nigeria. To off-set the effects of COVID-19 and end the training by 2030 – the objective set out in the Sustainable Development Goals – progress should be altogether sped up.

"One year into the pandemic, Bangladesh hazards losing hard-won increases on child marriage," added Hozumi. "Critical activity is expected to return schools and guarantee admittance to wellbeing and social security administrations, so we can fundamentally diminish the danger of kid marriage and guarantee young ladies are not denied their youth."

4.3.7 Depression:

Bangladesh like numerous different nations put the lockdown procedure into impact on March 26, 2020, to guarantee 'social distance' through 'home quarantine' to check the 'spread' among its populace, since an exact treatment or antibody for the tainted and individuals in danger are yet too accomplished by the worldwide wellbeing local area. Be that as it may, all training establishments were shut at first from March 18 to March 31, 2020 the nation over and later reached out to the mid of June 2020 in stages.

This uncommon experience of 'home quarantine' under lockdown with the vulnerability of scholarly and expert vocation complexly affects the psychological well-being of understudies. For instance, a Canadian report zeroing in on the impacts of isolation after the serious intense respiratory disorder (SARS) plague found a relationship between longer term isolation with a high predominance of tension and sorrow among individuals. The continuous COVID-19 pandemic is making a psycho-passionate tumultuous circumstance as nations have been revealing a sharp ascent of emotional well-being issues, including uneasiness, discouragement, stress, rest problem just as dread, among its residents, that in the long run expanded the substance use and now and again self-destructive conduct. Analysts in China saw that the more noteworthy

openness to 'falsehood' through web-based media are almost certain adding to the advancement of tension, gloom, and other psychological wellness issues among its populace of various financial foundations. Studies before the COVID-19 pandemic likewise recommended a converse connection between media openness and psychological well-being. Despite what is generally expected, a review in South Korea during the Middle East respiratory condition (MERS) announced a positive connection between hazard insight and media openness.

Given the unforeseen conditions, it is urgent to investigate the psycho-social experience of college understudies in Bangladesh, particularly during the COVID-19 pandemic. Such a review is relied upon to gauge the mental effects of an unanticipated crisis on understudies, just as to form and execute viable mediations and procedures to moderate the psychological wellness of individuals at large. This review was intended to resolve the mental issues experienced by college understudies in Bangladesh.

4.3.8 Drug addiction:

The current circumstance in the midst of COVID-19 has driven the children's and children's into a stationary way of life, inaction, and actual inertia which might build the frequency of stoutness, and other constant sicknesses, for example, diabetes mellitus, cardiovascular illnesses, and a few sorts of malignant growths . The absence of social contact, loss of pay of guardians, persistent media inclusion, and nervousness of vulnerability identified with COVID-19 pandemic might have unfriendly mental effects leading to post-horrendous pressure issues. Family brutality can likewise ascend during limitations in light of a monetary emergency which will build the danger of kid misuse. They can likewise be profoundly dependent via online media, sexual entertainment sites, and computer games; and long haul conclusion of instructive organizations may antagonistically influence their learning. The Government of Bangladesh has begun to broadcast instructive projects for essential and secondary school understudies through Television, which is valued. Be that as it may, this may prompt additional strain on understudies from low-pay families who don't possess a medium to associate with those projects.

Financially impeded individuals are at a higher danger for poor physical and emotional wellness in Bangladesh. Around 9.2% of individuals in Bangladesh live in outrageous

neediness (day by day pay beneath \$1.90). The monetary closure because of COVID-19 pandemic compromises a great many individuals. The predominance of undernutrition among Bangladeshi children is somewhat higher contrasted with other non-industrial nations, which can ascend because of the food emergency. The offspring of very low-pay families regularly include in the different labor force like the development area, agribusiness, article of clothing industry, squander picking, transportation, among others for a little measure of cash. Kid work is normal in both provincial and metropolitan regions in Bangladesh, with practically 1.2 million children matured somewhere in the range of 5 and 14 occupied with the labor force. These child workers can't help their family.

Also, numerous children in Bangladesh are destitute and live in the city and in rail stations, making them more helpless against disease. Notwithstanding, the kid worker and road children are now mishandled just as ignored, and COVID-19 may seriously affect their day to day existence, physical and psychological wellness. Moreover, the adolescent joblessness rate in Bangladesh was 12% in 2018. Additionally, numerous children will lose their employment because of COVID-19. The jobless children are additionally at higher danger for participating in various wrongdoings, illicit drug use and mental problems.

Kids and children in Bangladesh are worried about unfriendly, passionate and actual results because of COVID-19. Local area based projects and methodologies are expected to diminish the danger of unfriendly results among them, particularly in the individuals who live with neediness, participate in the workforce and are as of now jobless.

4.3.9 Suicide attempt:

More individuals in Bangladesh kicked the bucket from self-destruction somewhat recently than the people who were killed by the Covid, as per another review on Saturday by the Aachol Foundation.

Bangladesh detailed 70% a bigger number of deaths from self-destruction than COVID-19.

Suicides guaranteed 14,436 lives between March last year and February 2021, contrasted with 8,462 COVID-19-related passing during that time.

It clarified the financial and social repercussions of the pandemic, the review said.

The quantity of suicides is around 45% higher than the past year time frame, as indicated by the adolescent gathering.

An expected 10,000 individuals end it all in Bangladesh on normal consistently, as per the state Bangladesh Bureau of Statistics.

The Covid pandemic has supposedly seen self-destructive inclinations ascend at a disturbing rate among understudies. Disappointment and wretchedness have developed, prodding many to end it all, said the review.

The establishment said that consideration, mental treatment and backing are difficult to access in Bangladesh, particularly for children.

As per the review, 49% of self-destruction casualties were between the ages of 20 and 35, and 57% were ladies.

Recently, the Bangladesh Bureau of Statistics (BBS) said episodes of self-destruction had dwarfed passing from Covid-19.

Out and out 8,462 individuals passed on of Covid-19 in the 365 days after the first Covid cases were distinguished in the country on March 8, 2020. Conversely, Aachol Foundation observed that 14,436 individuals ended it all during a similar period.

It was seen as that 35% of them ended it all because of family issues, 24% because of stress, 32% because of obscure reasons, 4% because of monetary issues, 1% because of issues identified with studies and others because of different reasons.

The quantity of patients — particularly young people — with mental weariness and uneasiness has expanded in the midst of the Covid-19 pandemic, as indicated by Prof Md Tazul Islam of the National Institute of Mental Health and Hospital.

Taking note that self-destruction was on the ascent, he said the quantity of individuals experiencing discouragement had expanded essentially in the midst of the pandemic.

The public authority has been working a medical care helpline administration that has likewise given advice since last year, yet it is clearly scarcely dialed on emotional wellness related issues.

"By and large individuals know nothing about their own psychological issues and their associates don't believe them to be a genuine sickness, which deters them from looking for guiding, said Prof Tazul Islam.

On May 14 last year, senior columnist Humayun Kabir Bhuiyan's 23-year-old girl ended it all. Because of the horrendous experience, he was unable to rest, had hypertension and chest torments, and was deranged.

In his condition of melancholy, he even attempted to end it all twice. Afterward, he went through pain counseling for a long time.

"I figure admittance to guiding ought to be expanded. We need to make that inclination and mindfulness in individuals that it is similarly pretty much as genuine as actual disease. I went to the specialist willingly. Through guiding I have had the option to adapt to the circumstance," said Bhuiyan.

In the meantime, Prof Mahfuza Khanam of the Department of Psychology at Dhaka University, said there was no normalized concentration that could distinguish the genuine explanations for children' self-destructive propensities.

4.4 Children struggle and suffering during COVID 19

4.4.1 Distance learning infrastructure:

There are two types of challenges for distance learning in Bangladesh.

1. **Interaction process or policy related:** How teachers will conduct their class, how study material will be delivered to students, how attendance will be counted, how class test, assignment and exam will be continued, all these policy establishment and training is a big challenge and struggling point for children.
2. **Equipment or service related:** This is also very tuff for each student to arrange a suitable device with proper configuration like screen size, power and internet back up. Moreover devices, internet, electricity services are not available in all regions of Bangladesh.

3. **Shortage of ICT assets and framework:** There are numerous viable troubles in carrying out eLearning programs in colleges because of absence of assets. PCs and Internet networks are the most significant necessities for e-learning. Bangladesh, one of the 10 under created nations of Asia, has moderately lower individual PC proprietors. Not just that, Bangladesh additionally is languishing from lower preparing offices, lower enrolment in tertiary level of training and lower web use yet more exorbitant cost crate for web.
4. **Connectivity availability and data transfer capacity issue:** Because of transfer speed and network limits, downloading the web substance of e-learning is delayed in Bangladesh. According to our study, the normal data transfer capacity experienced by the understudies is 5.6 Kbps. Furthermore the normal transmission capacity doesn't fluctuate much from better places (College, home or digital bistro). Web use pace of Bangladesh is one of the most minimal on the planet. As per CIA world truth book just 0.31% of the absolute populace utilized the Web in 2006. A straightly relapsed line from the information of 1997 to 2006 assesses web utilization pace of 0.37% and 0.40% in 2008 and 2009 separately.
5. **Trouble in drawing in students on the web:** Web based learning requires an extremely serious level of self-inspiration which is viewed as lacking among our students. Because of inaccessibility of the web and low transfer speed not many are there who can utilize web regular routine. In this way, it is very hard to draw in students on the web. Our review tracked down that among the college understudies, 44% use the Internet as a medium of correspondence, learning and other scholarly purposes however the utilization rate, recurrence and reason change enormously. Understudies use the web from different spots.
6. **Absence of trust in utilizing PCs:** Most understudies in Bangladesh presently are not exactly natural of using all assets accessible on the electronic bundles. This is basically in light of the fact that understudies are not comfortable with the more intelligent methods of web abilities. To discover the PC information level of college understudies in Bangladesh, a five level PC information scale (CKS) is utilized. This scale is proposed and created by the creators to discover the PC information level of LDCs.
7. **Helpless skills in English:** A large portion of the archives for e-learning are written in English. Then again there are not many specialists who can make an interpretation of those materials into the local dialects proficiently and successfully.

This is a principle justification behind understudies to go against new innovation based instruction in LDCs. It is seen that a large portion of the college understudies feel troubles in perusing English archives. The showing materials arranged by educators with helpless English make sad consequences for the understudies in the significant stretch.

- 8. Reluctance to change learning climate:** Changing of the learning climate has confronted the opposition by understudies and educators. To conquer this issue, loads from the educators ought to be taken out by providing e-learning materials to them straightforwardly. The outcomes of the poll study about the ability of changing the learning environment with innovation uncover that 69% of the respondents are reluctant to change their learning environment with innovation. They incline toward conventional techniques for learning with pen and paper.
- 9. Morally harmful web substance:** A few guardians dread that understudies may admittance to grown-ups' materials, whenever they are presented to the web. Guardians accept that this may influence children' solid development both attitude and actually. Openness to porn is possible to influence their ethical life. As indicated by the review, 75% of the respondents feel that they ought to have legitimate control on the web with the goal that understudies don't gain admittance to morally destructive sites for the sake of e-learning.
- 10. Load shedding of power:** Practically all pieces of Bangladesh have load shedding of Power ordinarily something like four to five hours. As indicated by the authority's insights, the country's power shortage went up from 1000 megawatts (MW) to 1259 MW with the interest of 4806 MW in 2006. Authority said in 2009 around 1400 MW to 1800 MW power shortages will be confronted, which is twice more than the year before. In this way, utilizing innovation vigorously in such conditions is actually an issue which infers that effective execution of electronic learning regardless of power disappointment would be a genuine test here.
- 11. Programming theft issue:** Bangladesh has a theft pace of 92%, which is the biggest client of pilfered programming in the Asia-Pacific and fourth biggest on the planet. Considering the realities that practically all the programming that are utilized in PCs, from the working framework to the games that are utilized on PCs, are pilfered in one type of another. To execute e-adapting effectively with all legitimate programming and archives, the substance ought to be less expensive. If not, LDCs

won't be able to purchase what's more to foster the realizing stuff. The excessive cost of the programming, motivating robbery, is additionally a test for Bangladesh to effectively carry out e-learning [26].

4.4.2 Less concentration in study:

The members were found encountering a few learning interruptions. They reacted that they didn't feel any inspiration to learn at home as there was no compelling reason to follow any booked everyday practice for study and going to the college. So they invested adequate energy in doing a portion of their cherished works like cultivating, painting, planting, handiworks. They were additionally occupied with different non-scholastic exercises: cooking, watching motion pictures, TV, recordings on YouTube, understanding stories or blessed books, accomplishing social work or strict exercises, investing energy in friendly destinations of Facebook, Instagram, and so on Not many of them were energized doing some free Massive Open Online Courses (MOOC) from various sites like Coursera, edX, FutureLearn, and so on A member said:

I was under the pressure of reading up for a significant time frame. After quite a while, I got a little available energy. I'm associated with various expressions in this period. I cook distinctive food things by following various plans on Youtube. I feel pleased. I figure I will accept cooking as my calling.

Notwithstanding breathing easy in such works, they all consented to the way that they became hesitant with regards to their examinations. They couldn't recall the points they previously read in classes, and furthermore they bit by bit lost the desire to learn new scholarly illustrations. Some of them reacted that because of the abrupt conclusion of the college, they couldn't bring all their scholastic books and take in materials from the lobbies or residing places. They added that a few books were costly to purchase so they used to peruse the books from the library. As they didn't have the books close by, so they couldn't learn scholarly illustrations assuming they needed to. From survey response we informed about their home climate for not being reasonable to study. One of the members remarked, "My home is boisterous. So I would never learn at home. I used to learn at the library or classes in my area of expertise. I have been home for quite a while presently, however I can't peruse". Different understudies having scholastics books just as the home climate to concentrate additionally referenced the decrease in their review time, and the review time was every day for around one hour or not exactly

that. They added that this college conclusion because of the pandemic intruded on their daily schedule of study. A couple of them said that they partook in this brief break from scholastic learning.

4.4.3 Loss of Social Interaction:

Practically every one of the members reacted about missing their grounds climate and social associations with companions and educators to such an extent. They answered that they were utilized to bunch study with peers for tackling scholarly issues and to talk about or banter on various themes with companions. They for the most part favored contemplating with peers nearby than concentrating alone at home. However, because of the current situation, they had not seen their companions and cohorts for quite a while. They couldn't get in touch with them routinely, which intruded on the friend learning process. However some of the time they talked via telephone or social locales, every one of them conceded that absence of actual appearance made the discussions dreary. They likewise missed the past cooperation with instructors for concentrate on purposes or some other applicable matter. It was observed that less friendly collaborations with companions and instructors upset their inspiration to study as one member reacted:

I used to study with my companions. It requires some investment to comprehend numerous troublesome issues or dispense with the issue of any review matter in bunch study. Because of this CORONAVIRUS pandemic, bunch study is beyond the realm of possibilities now, and therefore, I have lost my inspiration to study.

One female understudy referenced that it would likewise be a reason for correspondence boundaries in the post-pandemic circumstance. She said:

I'm remaining at home without going out for quite a while. I can't converse with my companions routinely and mess around with them like previously. I have a bombshell outlook on that. It previously hampered my propensity for study with them. These days, due to this home quarantine, I prefer not to chat with anybody unexpectedly. I think along these lines, the greater part of us would neglect to open up uninhibitedly with one another, which can cause the correspondence hole in post-pandemic time.

4.4.4 Physical health Problems:

The scientists observed that many changes occurred in the members' every day schedules because of COVID-19. They said that their resting, eating, and working propensities changed a lot, like an increment in rest during the day, absence of rest around evening time, loss of hunger, actual latency, which brought about weight gain or corpulence. They felt shortcoming, exhaustion, etc. Most of the members distinguished these actual issues as purposes behind overlooking and not being energetic about proceeding with their examinations at home, which made separation from their scholastic schooling and hampered the progression of review. One male member said:

I used to be exceptionally occupied. Presently, I am getting fat by eating food and remaining at home on a daily basis. The body faculties are exceptionally profound, the head shivers, feel jubilant; there is a slow sensation. Is it possible to concentrate in this condition?

One female understudy portrayed:

The home quarantine is affecting my wellbeing. I have Polycystic Ovarian Disease (PCOD). It doesn't have any long-lasting fix. I really want to live on keeping up with the right eating routine and do satisfactory exercise. At the point when the college was open, I used to be on some actual developments the entire day. So my actual issue was in a negligible position. Yet, presently my day by day schedule has changed. I'm getting fat, which is expanding my actual issue. In the present circumstance, I am not ready to focus on my investigations. That is the reason I am so vexed with regards to this pandemic circumstance [27].

4.4.5 Mental Health Problems:

Stress was the most referenced psychological wellness issue by the respondents. They were found under a ton of strain, pondering COVID-19 circumstances as well as for their scholarly schooling. Alongside the dread of being contaminated with COVID-19, the majority of the members felt nervousness for the elements like being dissipated, less persuaded, unfit to adjust new scholarly propensities in the present circumstance. Vulnerability was working among the members about the re-opening of class and

assessment time, the distribution of results, and advancement in another scholastic year. They were additionally worried about the post-pandemic circumstance that when the pandemic circumstance would be taken care of, there would be tremendous tension on them to finish the course substance rapidly. So the crucial reasons for courses probably won't be satisfied.

A portion of the members were baffled pondering their future. They felt nervousness and dissatisfaction for not having the option to finish their last year of graduation. The pandemic circumstances expanded their burdens of landing positions and being set up. They felt that this drawn out scholastic year would postpone their odds of landing positions early and would likewise make work contests more exciting for them after graduation. They were in dread of crossing the particular age limit for work in Bangladesh without getting one. A member depicted:

Most government and private positions in Bangladesh have a particular age limit for work. By and large, the subjects of the work assessments are totally or somewhat not the same as the scholarly educational program. I'm not graduated at this point, and the scholastic year is stretching out for this COVID-19. So when I would have the option to take work readiness, I don't have a clue. The financial downturn has as of now started from the very beginning of the world because of this pandemic. Accordingly, open positions would likewise be restricted lately. I'm currently far-fetched about my future and self-esteem and apprehensive of intersection as far as possible for work as my age is expanding. Since I need to assume my family's liability, it would be better for me to find a new line of work as ahead of schedule as could be expected. Presently, I generally feel extremely anxious and can't imagine any matter profoundly. Uneasiness, dissatisfaction is burning-through me so I am not generally keen on anything, not study.

Some female members were under another individual pressure. Their families were compressing them for getting hitched without finishing their graduation as nobody could tell when the pandemic circumstance would recuperate and when they would finish their examinations. The prospect of marriage before graduation made them discouraged and furthermore crumbled their states of mind of study [27].

4.4.6 Financial Crisis:

Because of COVID-19, the greater part of the respondents talked about the monetary emergency, which affected their investigations. They portrayed the circumstance that a considerable lot of them lived off certain educational costs or low maintenance works for bearing their costs. In this season of the pandemic, all educational costs or low maintenance occupations halted. Indeed, even their family pay is essentially diminished as COVID-19 previously hit the economy of the world just as Bangladesh. As the members needed to rely upon their families for every day needs, it was a weight for them to oversee additional cash for purchasing web bundles with the significant expense to go to online classes.

Two members from private colleges said that their folks showed inadequacy to bear the consumption of their new semester running on the web. So because of absence of cash, they couldn't pay for the new semester and were constrained to drop the semester tragically, which made a review hole.

Indeed, even a couple of members from state funded colleges were additionally strained as they couldn't go to online classes routinely purchasing web bundles as a result of their poor financial status. They imagined that they would come up short in course assessments because of this explanation, and afterward they may exit the scholarly year [27].

4.4.7 Conclusion:

During this pandemic children are facing limit less challenges, which are really hard to overcome. That is why their mental health needs extra care.

CHAPTER 5

Mental Health of Parents during COVID 19

5.1 Introduction

Parents are over pressured due to lock down. House makers are restricted in apartments so parents are liable for every household work. In distance learning, parents are taking on challenges for teaching and infrastructure management. It is very rare after taking huge responsibility parents can avoid conflict with their children and others.

5.2 Income irregularity:

Individuals of the RMG society are in an incredible peril of losing pay and vocation as the crown-caused scourge has left an enormous piece of them jobless. Particularly work in the RMG Industry is dealing with an incredible issue of pay misfortune and joblessness because of an abrupt diminishing popularity for Bangladeshi RMG items in US and European business sectors.

5.3 Salary cut down:

The Covid fiasco has caused two sorts of business misfortune, for example, impermanent lockdown-incited employment cutback and extremely durable effect employment cutback. Brief employment cutback because of a lockdown in the country for a long time was assessed to be in the middle of 12 and 17 million (Ahmed and Kamal, 2020a). Closure of the significant four areas in the economy has made this employment cutback. 7,000,000 positions in the miniature, little and medium ventures (MSME) area, 5,000,000 positions in the vehicle area, 3,000,000 positions in the development area and more 3,000,000 positions in the assembling area were vanished for a brief time (The Financial Express, 2020). An extra 10 million individuals have become jobless in the farming area (Light Castle, 2020). Assuming that figure were added, the quantity of impermanent employment cutback would wind up somewhere near 25 million. Table 5 rundowns gauges by various improvement offices and research organizations about long-lasting effective employment cutbacks because of COVID-19 in Bangladesh.

The ghetto individuals in the city regions and the country helpless who depend on day by day pay for their ordinary job are a portion of the most exceedingly awful survivors of COVID-19. At present, an aggregate of 646,000 individuals for the most part occupied with the casual area live in north of 3,300 ghettos in the capital Dhaka. Then again, over 70% of Bangladesh's all out populace lives in country regions. The normal pay of these needy individuals has dropped by over 80% since the flare-up of the crown infection. Ghetto individuals lost 82% of their everyday pay which is a drop of around 81 Bangladeshi taka (\$0.97) from their past pay of 108 taka (\$1.30) in February, while per capita day by day pay misfortune among the rustic poor was 56 taka (\$0.67) which is a decrease of 79% of their past pay of 89 taka (\$1.07) .

To adapt to the pay misfortunes, in the metropolitan regions, 69% families diminished their food utilization; similar number of individuals took help from their companions. A sum of 38% of family got government help while 42% utilized their investment funds. Among the country families, 63% diminished food utilization, half got help from companions while 33% found support from the public authority, 55% needed to utilize their reserve funds, 22% families looked for more work and 22% acquired credit.

5.4 Job less:

A large number of people have recently become jobless while many more are at the danger of losing jobs. Particularly, the poor segment of the population who have very little or no savings at all is the worst victim of the economic meltdown. It is assessed that COVID-19 has pushed 16.5 million individuals fundamentally cart pullers, transport laborers, day workers, road sellers, peddlers, development workers and the representatives of inn, inn and eateries back into neediness. Riaz (2020) observed that 20 million individuals who exclusively depend on the casual area occupations for their vocation have as of now lost their positions and become briefly jobless because of the actions taken by the public authority to contain the spread of the crown sickness infection.

5.5 Family member covid affected and death:

The deprived families in the current review expressed that the abrupt passing of their relatives had been a fiasco and that they were continually occupied with ruminating on it. They constantly consider the way of contamination of their expired and continue to believe that they might have communicated the Covid to their families and caused the passing of their friends and family. "Invested a ton of energy with my companions and didn't adhere to those guidelines. I continue thinking, assessing occasions, ruminating about death of my dad, letting myself know that I might have given the disease to him"

The survey members referenced that splitting from their expired relatives had been the bitterest and saddest second in their lives. Their demise had been abrupt to the point that they didn't get the opportunity to converse with their friends and family and express their affection to them once and for all. They just encountered an unpleasant goodbye. "I was unable to try and embrace and kiss my significant other. The goodbye was unpleasant and fantastic"

One of the main classifications under the subject of passionate shock is distressed detachment. The members 14 expressed that they never expected to have their friends and family covered by sterilization laborers without a trace of their family members and companions and not get the opportunity to accept them once and for all. "My mom was oddly covered my mom's body was not conveyed to us, our family members and companions couldn't generally be there."

The survey participants pointed out that one of the worst psychological crises which they had experienced after the death of their loved ones was their concern that they would be buried in an unorthodox and non-religious manner. They expressed that the main thing that could reassure them a little in that circumstance was to realize that, regardless of whether they couldn't cover their friends and family in the organization of their family members and companions, they would be covered in an appropriate strict way. "It was said that the dead due to Covid were covered without washing or cover. Non-strict and Islamic internment was a major worry to us".

5.6 Distance learning teaching skill deficiency:

The significance of coherence of adapting needs to be conveyed to guardians and parental figures, long side direction on home learning modalities. Right off the bat, bring issues to light of the learning programs being carried out and how to access them (e.g., which TV channels, for which grades, and at what time), for instance, through a mix of numerous systems, for example, calls by instructors, papers, TV and radio stations, online media crusades, the previously mentioned 'one-stop site', or even as

Some portion of observing overviews. Also, for parental purchase in convey that these learning modalities are authentic, for nothing and embraced by the government.

Thirdly, informing can support guardians'/ parental figures' job in supporting their children,

Counting permitting young ladies and female students to access any/all types of innovation accessible at home, and give common sense direction on how to do as such (see UNICEF's nurturing tips). For the model, they recommend that guardians/parental figures plan a routine for their kids; support kids to pose inquiries and express their sentiments; if they approach the Internet, build up rules that also know about dangers to kids' wellbeing, security and protection; and remain associated with their kids' school and instructors. It ought to be thought that numerous kids are original students, whose guardians didn't finish their own schooling and might also be ignorant. Composed direction may hence not generally be useful. Numerous families will likewise have insignificant assets to work with. At the point when assets are needed for learning exercises, they should zero in on those that are generally accessible – like stones, sticks, normal cooking fixings (e.g., rice) – or are vague (e.g., "find triangle-formed items").

5.7 Conflict with children:

Guardians and teens intrinsically have numerous chances to encounter struggle with each other. Pre-adulthood is when freedom and parental impact conflict, since teenagers can think all alone yet at the same time live with guardians who have rules and assumptions for them. Young people don't really hold similar convictions and qualities as their folks, and their objective to have a good time clashes with their folks' objective to guard them. Because of the lockdown, most young ladies are remaining at home.

Young men are at times permitted outside, however the young ladies for the most part do the house errands. On the off chance that they can't meet family assumptions, now and then they are even beaten. In this lockdown circumstance, everybody is under pressure.

5.8 Overload in household work:

Ladies have carried more childcare and housework obligations than men since well before the Covid period. Yet, with schools shut, the Covid-19 pandemic has featured and exacerbated that divergence. Indeed, even with men contributing more, ladies are scrambling to offset their work with family commitments.

An abundance of exploration proposes that adaptable working may really expand work/family struggle, since it is probably going to prompt a development of work and increment the homegrown weight on representatives. A repetitive finding is that ladies are bound to complete more homegrown obligations while working deftly, though men are bound to focus on and extend their work circles.

Returning to the overview done by BIGM, the respondents were inquired as to whether they got any help with their family obligations. Bigger piece of the respondents (80%) perceived the assistance of their family members in performing different family works out, for instance, kid raising, cooking, cleaning and disinfecting the house. In any case, only 27% of respondents are significantly content with the assistance of family members, and 3 percent said they are not satisfied using any and all means.

In spite of the mass passage of ladies into the labor force during the twentieth century, the peculiarity of the "second shift" actually exists. Across the world, ladies—incorporating those with occupations—accomplish more housework and have less recreation time than their male accomplices.

Working remotely has its advantages. No day by day drive in the first part of the day, adaptable work hours and no severe clothing regulation (except if you have online gatherings!), however it likewise has its disservices. It may very well be difficult to remain inspired. You're not working close to your group and you don't have associates to communicate with. In any case, while the lockdown chomps practically all, it's for the most part ladies who are enduring the worst part. With our homes being our

workplaces presently, defining work life limits is a battle. Notwithstanding, with the pandemic appearance no indications of easing up, everything we can manage is to acknowledge the new ordinary and begin adjusting to it in a like manner.

5.9 Lack of recreation:

The conventional joint family framework stays the center setting for socialization and other family working in Bangladesh. The joint family framework is ordinarily contained at least three ages who share a typical residing compound and pool their financial resources. In metropolitan Bangladesh, where a developing number of wedded ladies and moms are utilized in administrative work, this customary framework seems to have been a surprisingly good turn of events, particularly in a man centric culture like Bangladesh. States that with no government assistance state, proficient ladies have no state-financed childcare.

For double worker couples leaning toward the family unit residing courses of action, a full emotionally supportive network of organization or self-subsidized childcare and paid family staff is compulsory all together for working moms to deal with all finishes. However, these are the specific necessities which were unexpectedly taken out during the lockdown of the Covid19 pandemic.

Despite the fact that the workforce cooperation of ladies is presently near or equivalent to that of men in most industrialized nations, ladies keep on giving a lopsided portion of housework (like cooking and cleaning) and childcare. (Alon, et al, 2020) Since the 1990s, metropolitan working class

Bangladeshi ladies' cooperation in the public space as dynamic monetary specialists has moved the power relations in couples and families, especially on the grounds that proficient ladies presently look for familial emotionally supportive networks to track down a substitute for their homegrown work. (Husseini, 2017) Urban working moms

Luckily, can likewise manage the cost of the offices to empower them to designate a few of these obligations to keep up with exceptionally testing corporate positions as information laborers. Be that as it may, while it is standard in Bangladeshi culture for families to utilize in-house or low maintenance servants, the Covid-19 lock down and it's going with danger of local area transmission brought about most families

relinquishing their low maintenance homegrown staff to limit the passage of diseases in their homes. This brought about the whole

Weight of childcare, dinner readiness and family support to be conveyed among relatives. Obviously, as a rule the weight naturally depends on the lady paying little heed to her expert benefits. This turns out to be especially difficult where information work,

Requiring total fixation is involved. Working moms were presently not ready to send their children to the everyday schedule or permit them to get out of disconnection for any outside exercises. Additionally, the additional weight of self-teaching their offspring likewise arose as an unanticipated limitation on their time and fixation. Moreover, social separating rules brought about more prominent difficulties of caring for the old relatives, planning

Nourishment for the family for every day food, obtaining food and keeping a clean and sanitized family consistently.

5.10 Conclusion

Parents' income fluctuation and sustainability in society during pandemic in some cases crosses their tolerance level. Their socioeconomic status is a vital cause of their mode during the lockdown period.

CHAPTER 6

Parent Child relationship during lockdown period

6.1 Introduction:

During the lockdown period parents and children are staying under the same roof all the time. Besides good feelings there are a lot of conflicting matters between parents and child.

6.2 Homework creates parents-child conflict:

The COVID-19 pandemic has prompted impermanent school terminations in numerous nations all over the planet. Accordingly, countless kids had to do their homework at home for a really long time in a row. This job as low maintenance educator put extra requests on guardians, representing some of extra issues for them. Due to push or an absence of help a few guardians may have felt less ready to show their kid at home. Besides, guardians may have encountered challenges directing the conduct issues of their children that can happen during their assistance with homework. In general, parental self-adequacy mirrors guardians' convictions about their capacity to parent kids effectively—to guide and support kids to such an extent that it enhances their development. In the setting of self-teaching, parental self-viability concerns guardians' self-referent decisions of their capacity to sufficiently educate, connect with, and sincerely support their children in homework. At the point when guardians accept their inclusion will significantly impact their kids' homework, they are more leaned to be engaged with their kids' schoolwork. As yet, little is had some significant awareness of the particular connection between guardians' feeling of self-efficacy in educating and parent–kid struggle around homework, particularly in the midst of extra homeschooling. a bigger feeling of parental self-viability is related with less conduct issues in children. Which may sum up to parent–children clashes during parental assistance with schoolwork as well. it appears to be logical that guardians who feel less viable in showing their kids will likewise encounter more contentions with their kid during assist with schoolwork. Self-sufficiency is formed by power experiences and energetic states, similar to parents' teaching self-efficacy and homeschooling, parental self-adequacy is by all accounts affected by factors in three spaces: Personal attributes

of the parent, social context oriented or family factors, and kid characteristics. With regard to parent attributes, one of the variables that may go about as a source of mastery encounters is guardians' financial status. There is plentiful proof that guardians with a higher SES give better home learning conditions (HLE) with richer and more intricate language, better educational quality, and basic encouragement during joint book perusing, and more proficiency and numeracy related activities. Parents may likewise utilize data about their own passionate states when deciding how they can deal with show their kids at home. Seen pressure appears to be a specific important element in the midst of the COVID-19 pandemic and school conclusion, as there are dangers to monetary security and wellbeing, just as a constant time pressure brought about by work prerequisites and the interest to help children with school work. Also in typical occasions, notwithstanding, stress is viewed as tolerably identified with the more extensive idea of nurturing efficacy. A social relevant element that may influence guardians' authority encounters is family mayhem. Self-teaching will for the most part need normal support with homework and guardians have to (re)organize their family to satisfy this prerequisite. A few families, indicated as tumultuous families, are described by undeniable degrees of disorder as communicated by restricted construction, an absence of day by day schedules, and raised degrees of noise. Young kids experiencing childhood in a turbulent home climate will generally show more direct issues and more unfortunate intellectual and scholastic results. Family disarray may force a test for guardians to track down a tranquil spot to take care of and support their children with homework. As such encounters can't be ascribed to an absence of exertion, they may genuinely influence guardians' self-appreciation adequacy to help their child. Support from children's schools may moreover help watchmen with making and supporting a self-appreciation reasonability in educating. This is especially apparent in irksome events, for instance, the COVID-19 lockdown which required from most watchmen to quickly expect command over the representations organized by the school to coordinate their children. More significant levels of seen school support, similar to clear guidelines, admittance to the required illustration content, and great working advanced learning stage, may add to guardians' ability to be self-aware adequacy in educating, as this kind of help can facilitate guardians' endeavors in their self-teaching exercises. To be sure, proof from research on educators' self-adequacy has shown that more elevated levels of seen school support as far as clear objective designs and appreciation are decidedly identified with instructors' self-appreciation efficacy.

6.3 Socio-economic status:

The principal parent attributes were SES, approximated by the training of the guardians, and stress during school conclusion. In evaluating their associations with self-viability in showing we controlled for the quantity of working hours of the guardians and regardless of whether they worked at home. Social relevant qualities included family disorder and seen support by the school.

6.4 Miscellaneous factor:

Furthermore, the quantity of rooms, work environments (work areas), and gadgets (PCs and tablets) in guardians' homes were enrolled as these may be perplexed with family disorder. We additionally controlled for the sex and grade of the children. More importantly, we controlled for the degree of parent–kid struggle during guardians' assistance with homework before school conclusion and for parent–kid closeness as a general file of parent–kid relationship quality. The last option permitted us to test whether school conclusion impacted the general parent–children relationship or parent–kid struggle during homework in particular. In this review, the degree of instruction of the mother and the dad, estimated on a scale going from SSC to PhD, filled in as an intermediary for SES. The moms showed their own degree of instruction just as the instructive level of their accomplices.

6.5 Conclusion:

Homeschooling, shared recreation resource like TV remote, mobile internet, and common crises like lack of recreation, public reaction are root causes of parent-child conflict.

CHAPTER 7

Data Mining

7.1 Introduction

From a massive amount of survey response data we need to do statistical analysis, pattern and relationship among data. We will discover mental health related information and mine valuable patterns of information from valuable responses from surveys.

7.2 Data Mining

7.2.1 Preprocess:

The data that is gathered from the survey contains numerous undesirable things that prompts wrong investigation. For instance, the information might contain invalid fields, it might contain segments that are unimportant to the current analysis, etc. Accordingly, the information should be preprocessed to meet the prerequisites of the kind of investigation we are looking for. This is done in the preprocessing module.

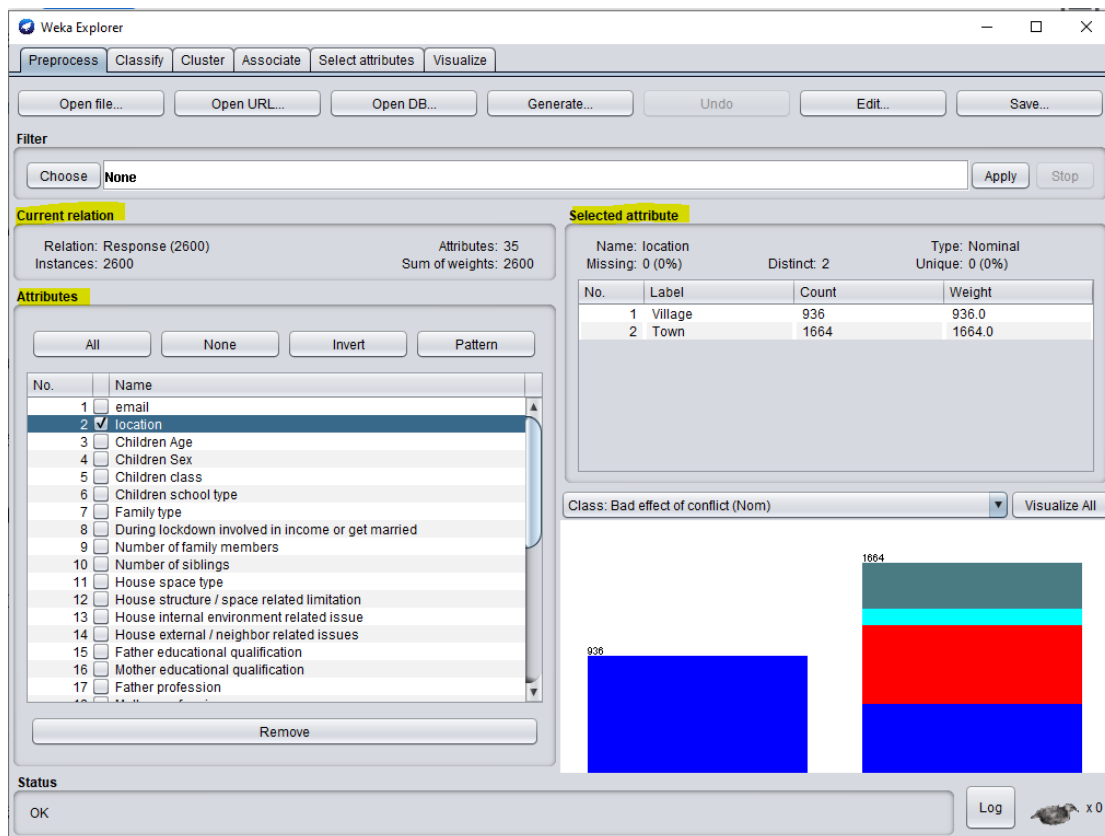


Figure : 7.2.2

7.2.2 Data Analysis:

On the top -left current relation sub window shows the name of the database that is currently used. We can see 2600 instances. I mean the number of rows in the table. There are 35 attributes or fields in the table. In the Attributes sub window that shows the various fields in the database. The response database consists of 35 fields. Attribute details can be seen in the right section when we click on any field. In the selected attribute window we can get the following things: The name and the type of the attribute, the number of Missing values, and number of distinct and unique values, the count and weight in terms of a percentage for each value.

At the bottom of the window, we can see the visual representation of the class values. If we click on the Visualize All button, we will be able to see all features in one single window.

7.2.3 Removing Attributes:

Sometimes, the data that we want to use for model building comes with many irrelevant fields. We can remove Attribute/s by selecting them and clicking on the Remove button at the bottom. The selected attributes would be removed from the database. After we fully preprocess the data, we can save it for model building. Next, we will learn to preprocess the data by applying filters on this data.

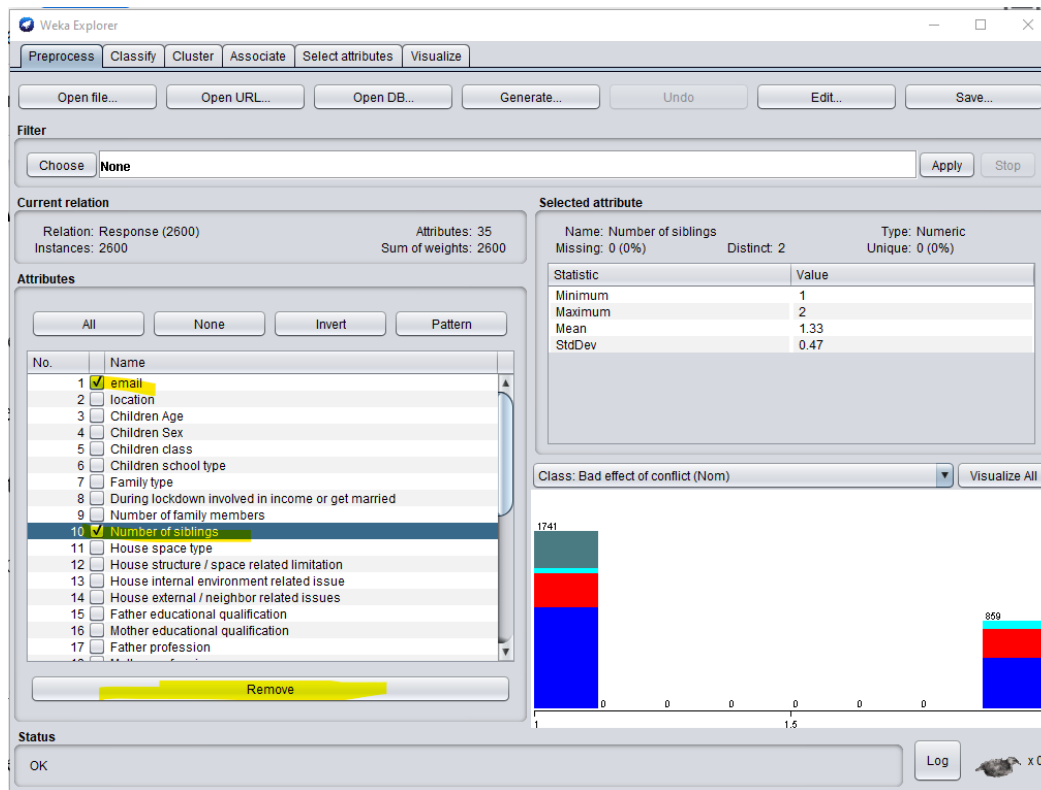


Figure :7.2.3

7.2.4 Applying Filters:

We will use a response.csv database that contains two numeric attributes - age and number of family members, two String attributes - email and number of siblings and the rest thirty one are nominal attributes.

We will convert those non-nominal attributes to nominal by applying a filter on our raw data. We will click on the Choose button in the Filter sub window and select the following filter –

weka→filters→supervised→attribute→Discretize

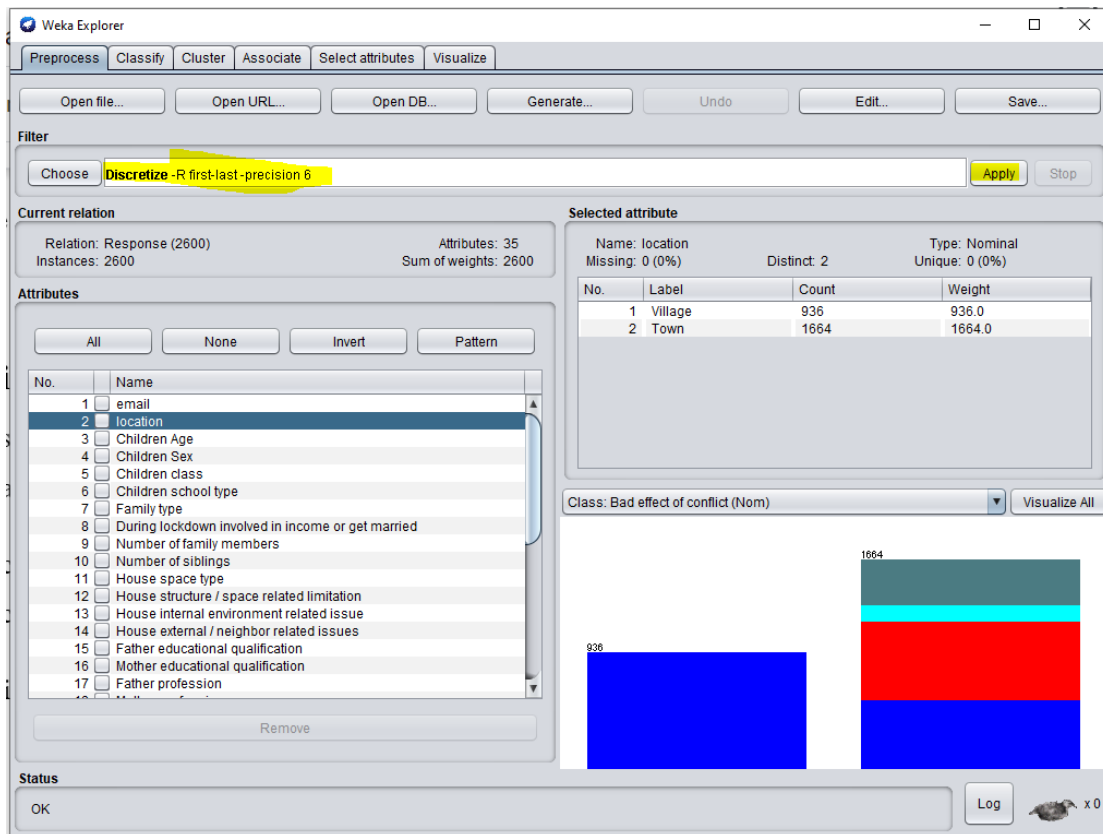


Figure : 7.2.4

We can convert attribute type from “Numeric” to “Nominal”

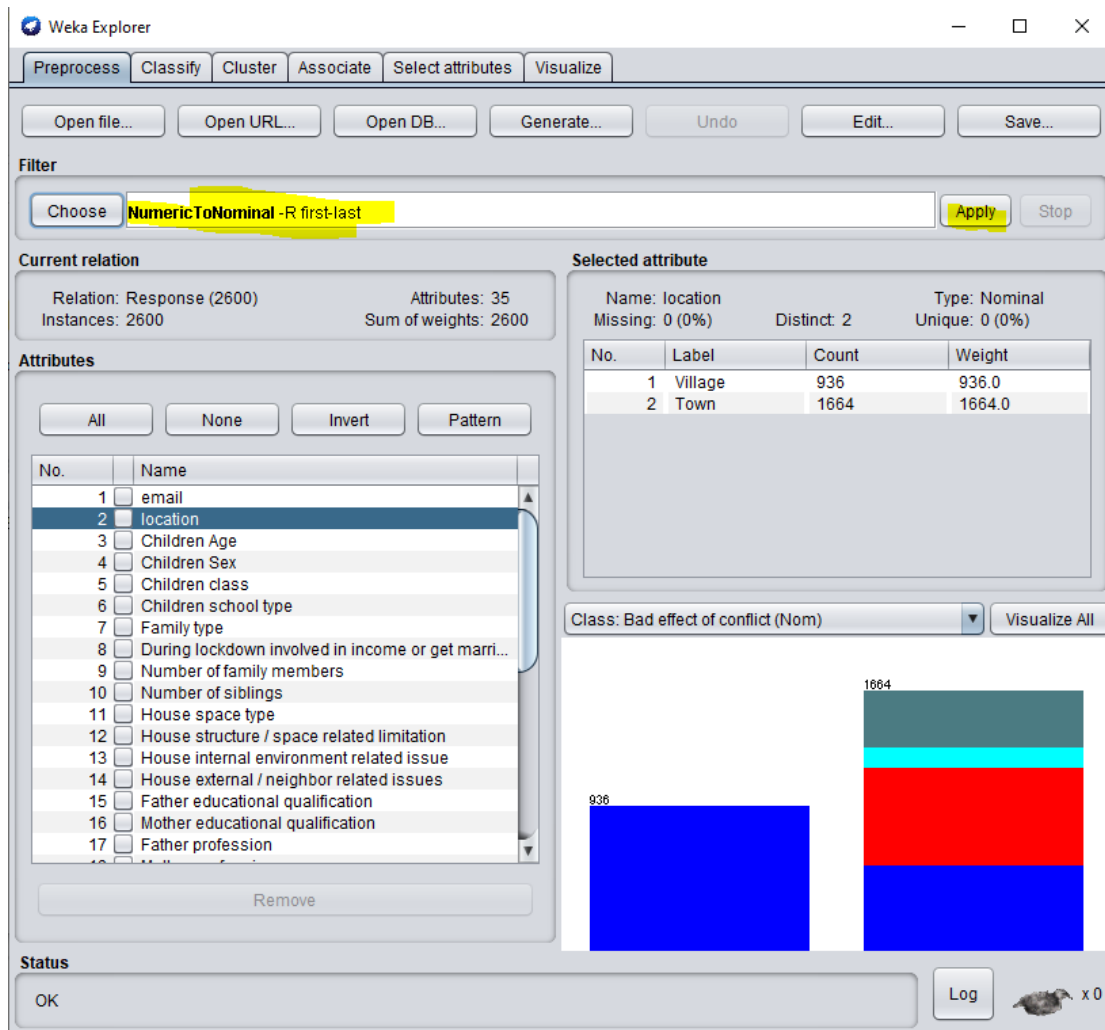


Figure : 7.2.4.1

7.2.5 Classifier:

If we select the following classifier weka→classifiers>trees>J48 and click on the Start button to start the classification process, after a while, the classification results would be presented on our screen as shown here –

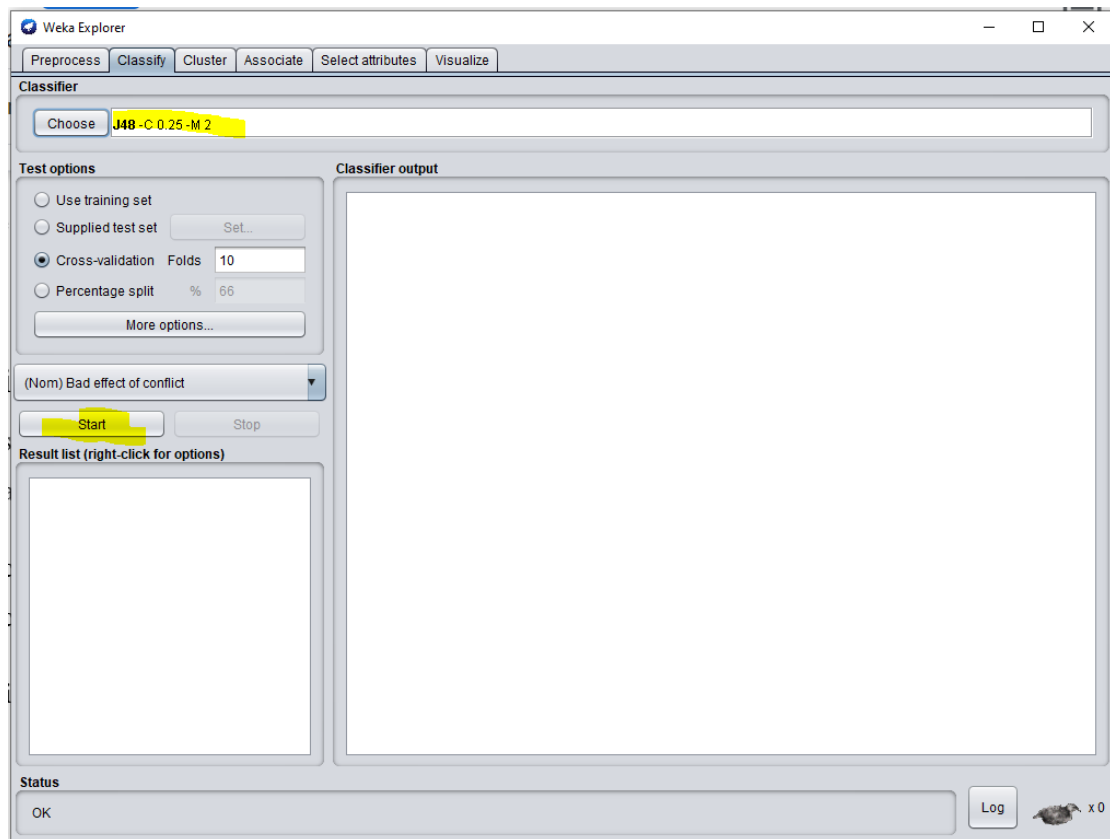


Figure : 7.2.5

Correctly classified instances as 2600 and the incorrectly classified instances as 0, it also says that the Relative absolute error is 0%. It also shows the Confusion Matrix. In this way we can quickly justify our model.

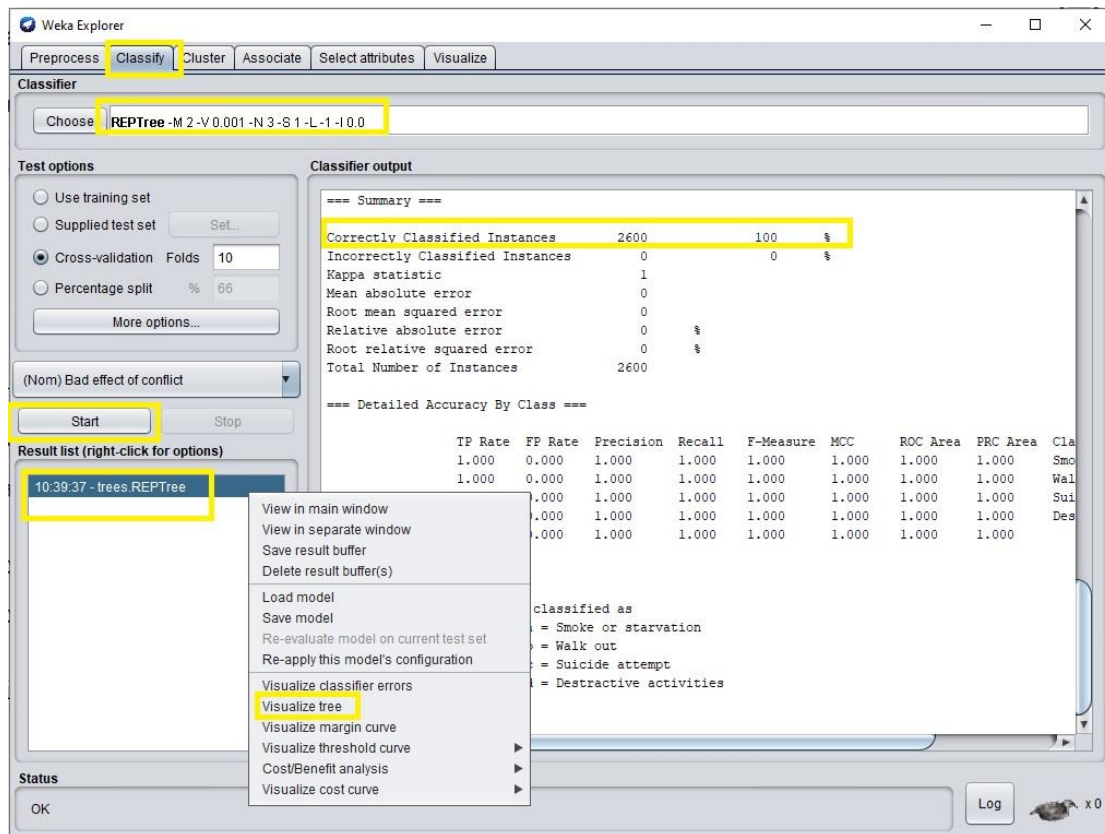


Figure : 7.2.5.1

By selecting Visualize tree we can get a visual representation of the traversal tree as seen in the screenshot below –

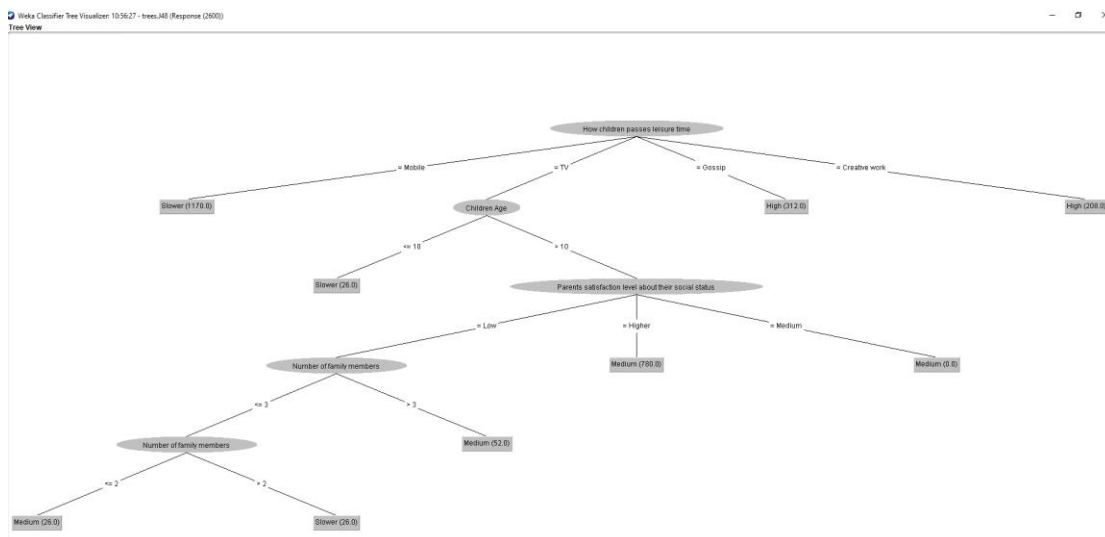


Figure : 7.2.5.2

Selecting Visualize classifier errors will display the results of classification as shown here

A cross express a correctly classified instance while squares represents incorrectly classified instances. To locate instances, we can introduce some jitter in it by sliding the jitter slide bar. There are several other plots provided for your deeper analysis.

7.2.6 Clustering:

By clicking on the Cluster TAB we can apply the clustering algorithms to our loaded data. By clicking on the Choose button. we will see the following screen –Now, select EM as the clustering algorithm. In the Cluster mode sub window, select the Classes to clusters evaluation option as shown in the screenshot below –Click on the Start button to process the data. After sometimes, the results will be displayed on the screen.

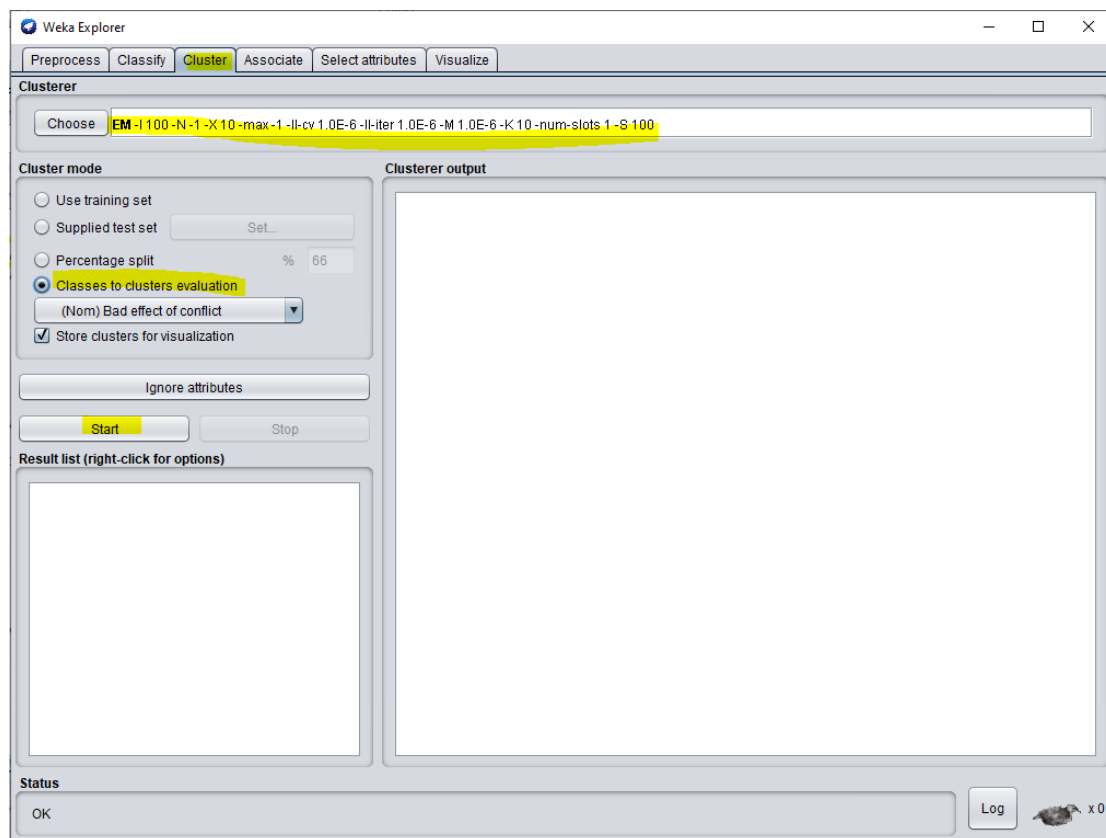


Figure : 7.2.6

Attribute wise clusters with proper value can also be seen.

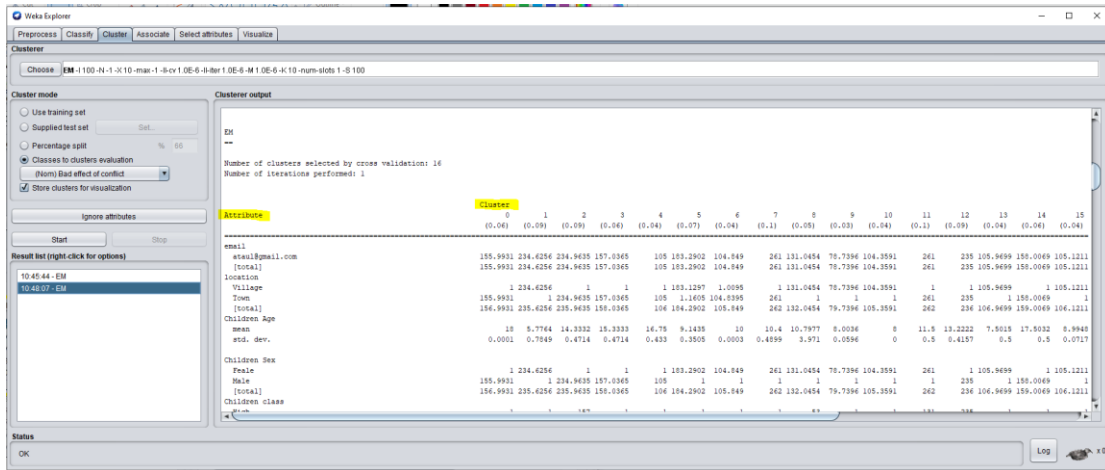


Figure : 7.2.6.1

Model build time, clustered instances with percentages can also be displayed.

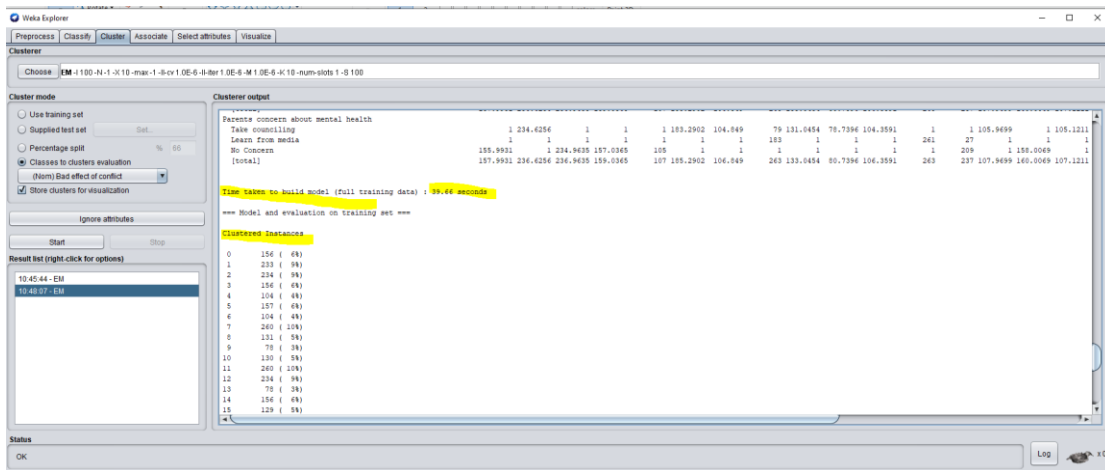


Figure : 7.2.6.2

Attribute wise classes to clusters can also be visible.

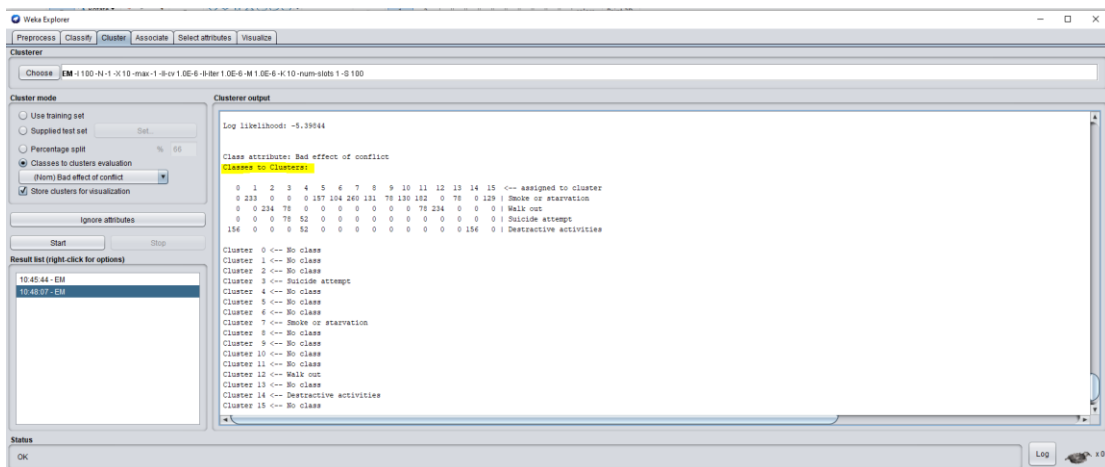


Figure : 7.2.6.3

We can also load cluster models.

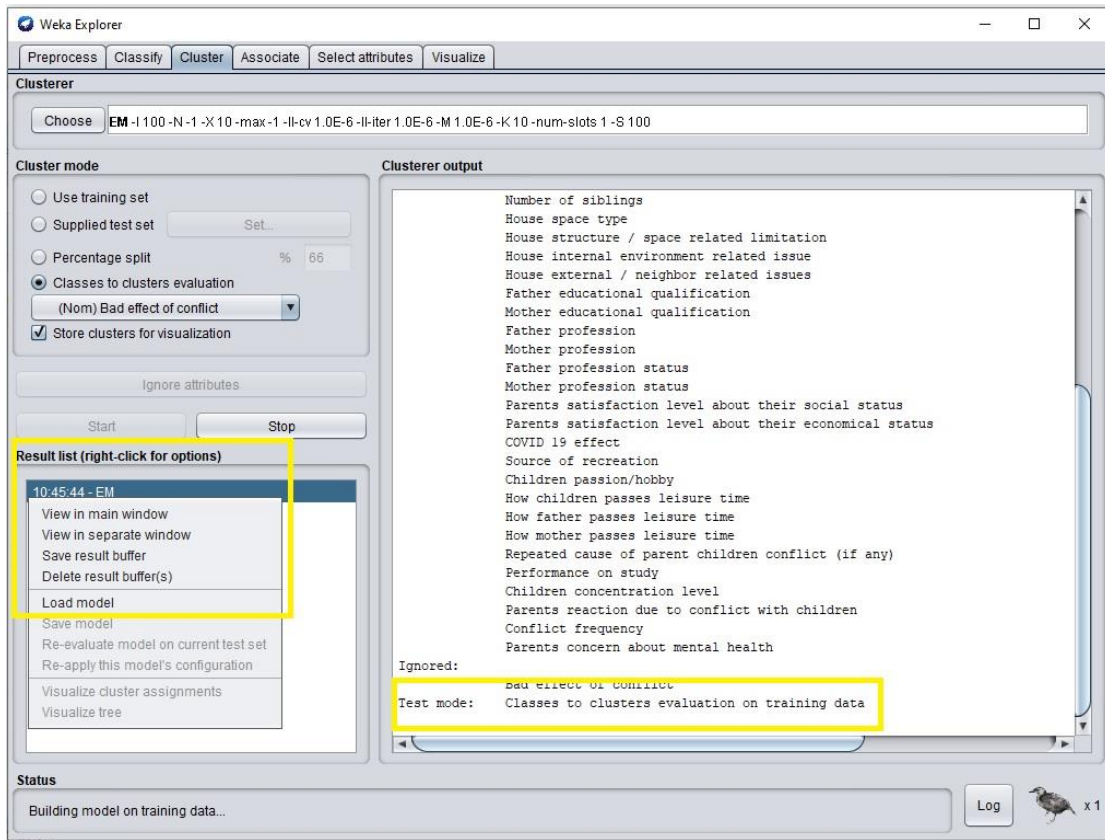


Figure : 7.2.6.4

Attribute selection on all input data can be seen.

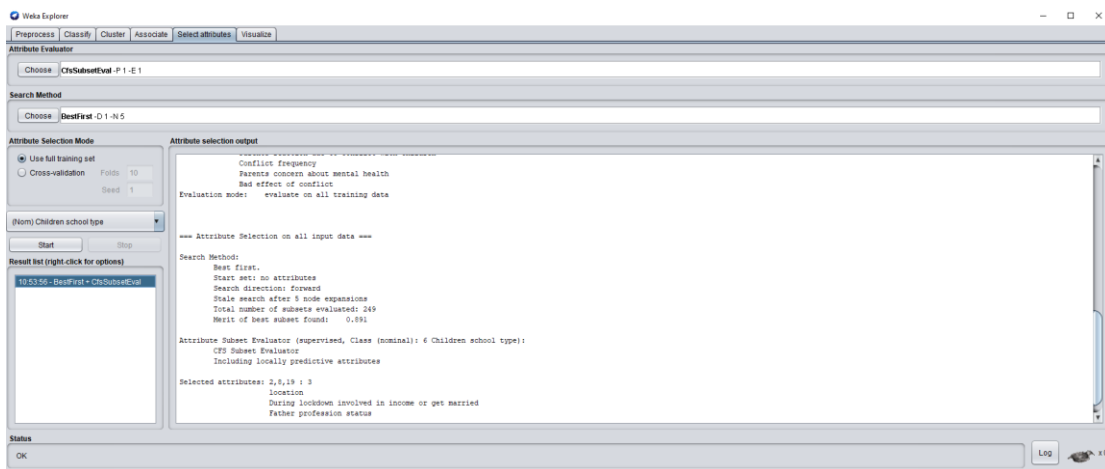


Figure : 7.2.6.5

7.2.7 Conclusion

Data mining process helps us to detect problematic scenarios from survey response data. We are able to identify our observations and recommendations.

CHAPTER 8

Implementation and Result Analysis

8.1 Introduction

We have implemented our survey response data through WEKA data mining tool which is described in chapter 7. In this chapter we will analyze the result.

8.2 Implementation

After the data mining implementation, Classes to Cluster evaluation result view in table and chart given below. We can retrieve some observational statements from result analysis.

8.3 Result Analysis

60% Female 40% govt school students' dropout and 22% get married.

Observation: Smooth educational activity can resist early marriage.

| Female | Govt School student | Early Marriage |
|--------|---------------------|----------------|
| 60% | 40% | 22% |

Table : 8.3

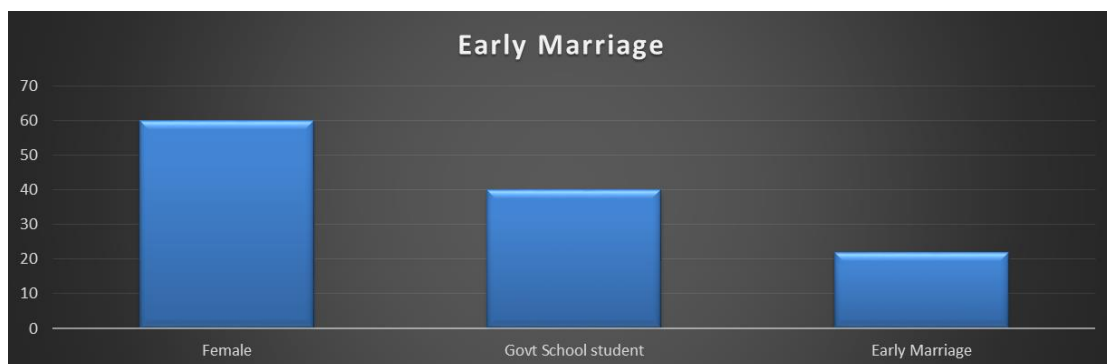


Chart : 8.3

37% Joint family 25% affected rate of covid19 is high because of older people and multiple outgoing people.

| Joint Family | Covid affected |
|--------------|----------------|
| 37% | 25% |

Table : 8.3.1



Chart : 8.3.1

37% Joint families suffer for 14% insufficient (very less) house type, 18% lack of congenial atmosphere and 41% privacy, 59% internal environment related issues, 50% Lower educated parents involved 15% neighbor related issues.

Observation: Sufficient home space is critical factor for mental health. Neighborhood depends on the parents educational level.

| Joint Family | Insufficient house space | Lack of congenial atmosphere | Lack of Privacy | Internal conflict |
|--------------|--------------------------|------------------------------|-----------------|-------------------|
| 37% | 14% | 18% | 41% | 59% |

Table : 8.3.2

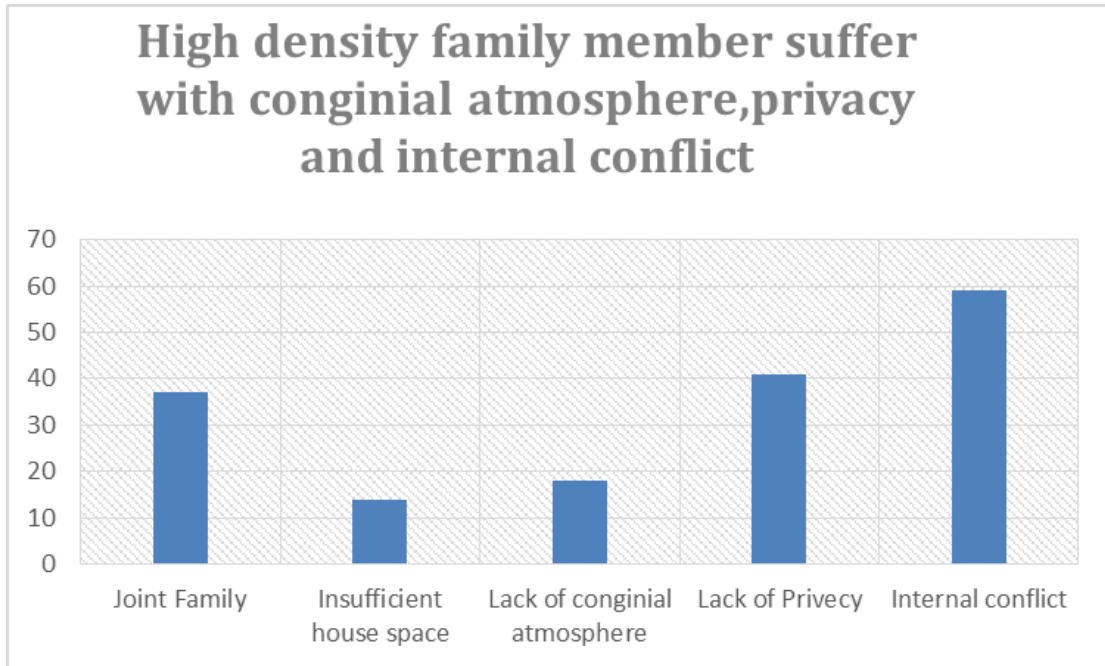


Chart : 8.3.2

45% Higher educated father mother socioeconomic satisfaction 40% high and 68% mutual discussion in cool head.

Observation: Socio Economic satisfaction depends on education level and higher educated parents could avoid conflict with children in a better way.

| Higher educated parents | socio-economic satisfaction higher | Mutual discussion in cool head |
|-------------------------|------------------------------------|--------------------------------|
| 40% | 45% | 68% |

Table : 8.3.3

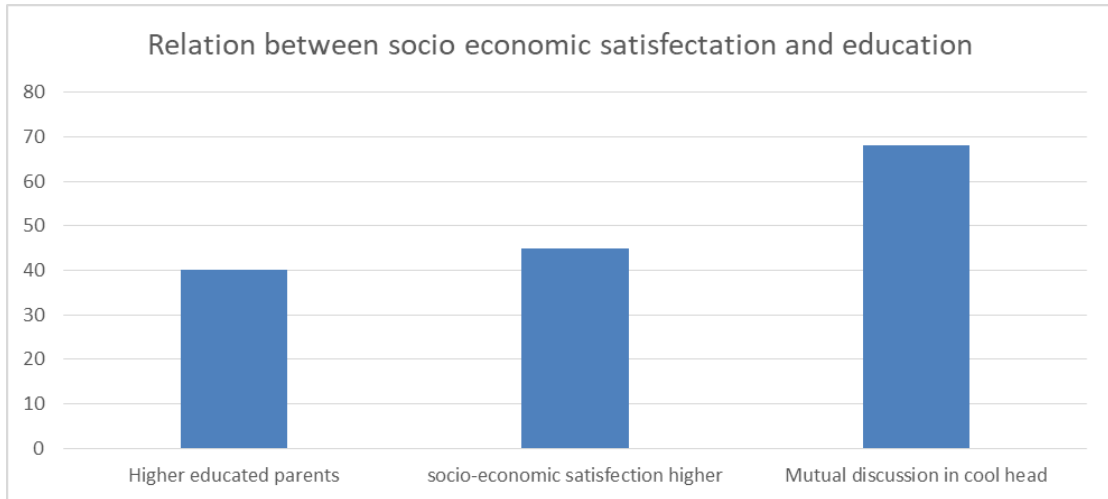


Chart : 8.3.3

39% Jobless 22% in transit father mother socio economic satisfaction 47% low and 69% Conflict frequently.

Observation: Job stability ensures socio economic satisfaction and less conflict.

| Job less | Intransit parents | Socio-economic satisfaction lower | Conflict frequently |
|----------|-------------------|-----------------------------------|---------------------|
| 39% | 22% | 47% | 69% |

Table : 8.3.4

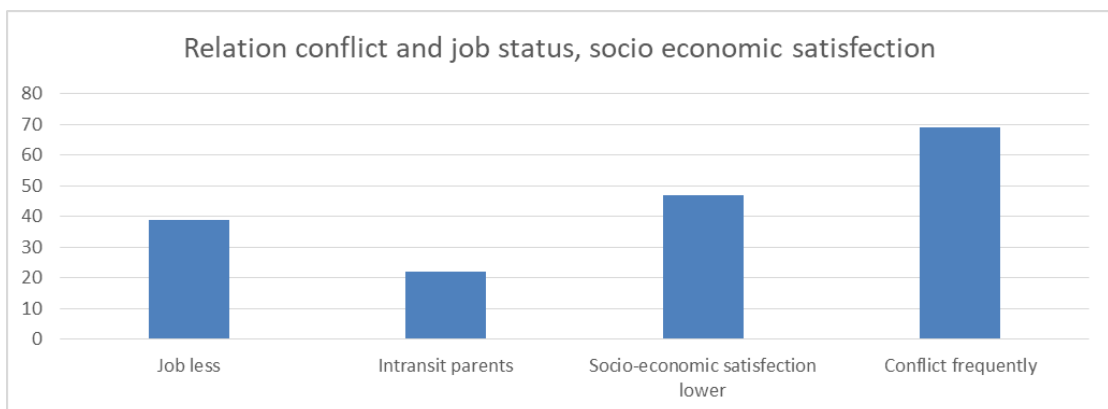


Chart : 8.3.4

79% screen interacted children 77% less concentration in study,47% need long time to prepare study leisure time meaning less not energetic and 33% react badly,23% frequent conflict and suicide attempt. 57% after conflict smoke, 23% walk out from home.

Observation: Long time screen interaction hampers concentration, productivity and is a vital cause of depression.

| Screen interacted children | Less concentration in study | Slower to prepare study | React badly | frequent conflict | suicide attempt |
|----------------------------|-----------------------------|-------------------------|-------------|-------------------|-----------------|
| 79% | 77% | 47% | 33% | 23% | 23% |

Table : 8.3.5

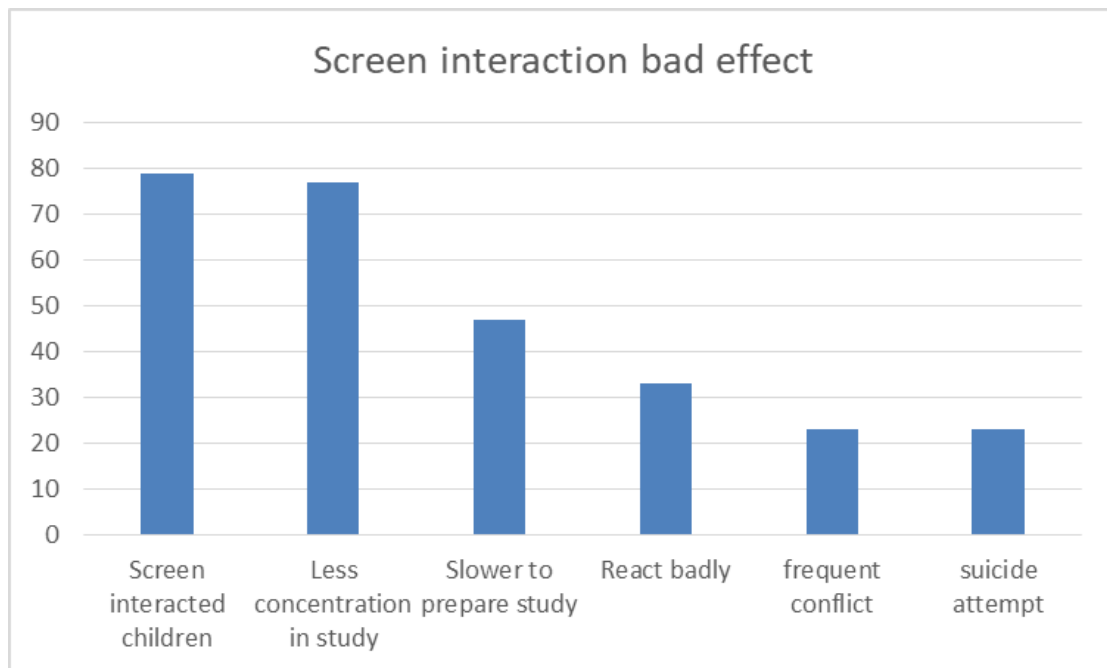


Chart : 8.3.5

In transit/jobless mother/father is 72% patient less and do rough behavior with family members. 43% Educated parents take psychological consultancy or learn from newspapers or TV.

Observation: Job instability leads to rough behavior. Educated parents are more conscious about mental health.

| Neighbour related issue | Take psychological consultancy |
|-------------------------|--------------------------------|
| 15% | 43% |

Table : 8.3.6

8.4 Recommendations:

We are mapping between our findings and expectations. Data mining also helps us to propose solutions.

Our expectation was to identify children's struggling factors during COVID 19, measure their psychological impact. We listened from those points of view which are very relevant with children psychology, like parents' mental health, study, home environment, neighborhood, and hobby and so on. Data mining elaborates the scenario.

Authorities should compensate and motivated to start earning from new source to jobless people so that they can be relieved from mental stress. Authorities should impose a girl's educational qualification verification during marriage registration. Schools should have a periodic schedule for mental and physical (especially dope test) health screening. Schools should have periodic schedules for open discussion sessions and workshops with children-parents where parenting and obedience towards parents will be focused. So that lower educated parents can also deal with their children in a proper way. If parents are unable to ensure a congenial atmosphere they should send their children to the library. Joint family members should arrange outing events periodically. Both parents and children should be detached from screen during family time and pass quality time.

Our firm believes if our proposed solution works properly we can see a healthy world not only in post COVID but also in any pandemic period.

8.5 Conclusion

Children's psychology depends a lot on their parents' mental health, home environment and how they spend their leisure time. So we have to ensure a proper environment in our home.

CHAPTER 9

Critical Appraisal (SWOT Analysis)

9.1 Introduction

When children's struggling factor will be detected it will be easy to take care about their mental health. But we have to enhance the budget and generate extra awareness about mental health.

9.2 Strength

This research has detected the subject matter for which children are struggling during lock down. Children depression during pandemic is alarming. This research has dug down about parent child conflict, which is very helpful to maintain a decent relationship between parents and child. This research is also very useful to overcome distance learning challenges. This research has a concrete guide line on how to maintain a proper home environment to ensure privacy and congenial atmosphere. This study raised outdoor activity, social interaction importance on children's growing up period. How should a home environment that guideline can be also found here. Bad effects for screen addiction are also focused. During lockdown period when education programs were stopped and family income interrupted that situation lead early marriage and child labor increases. This vital incident is also very helpful for society. Parents hurdle, mental condition, income fluctuation effect due to pandemic also made an effect on children's psychology.

9.3 Weaknesses

There are a total of 19552979 children in Bangladesh. We took only 2600 children data, we took only parents' responses through an online survey. We considered city and village location, private, Govt School demographic but we could take data from North-South-East-West corner of our country. We focused on home environment, distance learning infrastructure, parents' challenges teaching skill inefficiency, mental condition, income instability, socio-economic satisfaction and so on. We could consider more parameters related to children psychology like food habits, environmental structure and other relevant factors. Depression root cause may also affect new patients

by matching their scenario with this research. Which educational institute are advance in distance learning they can be over demanded other institute may be discriminated.

9.4 Opportunities

Parenting guidelines can be developed from this study. Good relationships between parents and children is helpful to maintain children mental health and make things easier for parents to guide them. Relevant institute can take initiative to smooth their distance learning operation. NGO and concerned authorities can plan their activity from the focused point of this study. Home environment can develop to ensure mental health, a congenial atmosphere with proper privacy. Psychological health sector can be expanded and mental care will be ensured which ultimately reduces mental issues. How to deal with relevant operations during pandemic that can be learned from this study.

9.5 Threats

According to Ministry of Posts, Telecommunications and Information Technology 49% students are victim of sexual harassment. According to Bangladesh Institute of ICT in Development 64% from city 33% rural children are victims of cyberbullying by audio, video and other types of contents. According to aine o shalish kendro 32% children didn't share their online sexually abused experience with another one. If mental patient is not identified then it is hard to stop disaster like drug addiction, suicide and so on due to deportation. Maximum parents don't know where to get mental health treatment in his locality. According to Nasirullah Psychotherapy Unit (NPU) Dhaka University only one doctor is assigned for thirty thousand mental patients and below 1% is dedicated for mental health in the health budget.

9.6 Conclusion

We have to increase the number of psychologists and as well as para councilors to ensure mental health service in each region of Bangladesh. We can also develop parenting guideline, distance learning infrastructure. Hopefully awareness and protective measures will reduce mental health related problems a lot.

CHAPTER 10

Conclusion

10.1 Conclusion

We hope covid will stop one day. But post covid complications will charge a huge cost from our society. To avoid post covid complication and upcoming pandemic effects we have to ensure children and parents mental health. We have to prepare our study and work sector in such a way so that lockdown cannot hamper study and income. Our Govt should build a pandemic related contingency plan and implement that plan with proper budget without any delay.

10.2 Further Suggested work

In the future we can work on how children can come back from covid related psychological trauma and become successful entities who can contribute to our society.

CHAPTER 11

References

1. Peter F. de Jonga, Bieke G. M. Scheursa, and Marjolein Zee, PARENTS' TEACHING SELF-EFFICACY AND HOMESCHOOLING1Parent–Child ConflictDuringHomeschoolingin Times oftheCOVID-19Pandemic, <https://psyarxiv.com/feuj9/>
2. Sarah E. Martiny, Kjørsti Thorsteinsen, Elizabeth J. Parks-Stamm, Marte Olsen & Marie Kvalø , Children's Well-being during the COVID-19 pandemic: Relationships with attitudes, family structure, and mothers' Well-being, <https://www.tandfonline.com/doi/pdf/10.1080/17405629.2021.1948398?needAccess=true>
3. Srikant Gupta, A Study on the Prevalence of Psychological Impact during the COVID19 Pandemic, <https://www.gurukulbusinessreview.in/wp-content/uploads/2021/05/2-Paper.pdf>
4. Bikash Barai , Need Of A Proper Home Environment Conducive To Promote Creative Potential Of The Learners During Covid19 Crisis, https://www.researchgate.net/profile/Bikash-Barai/publication/346677581_Need_Of_A_Proper_Home_Environment_Conducive_To_Promote_Creative_Potential_Of_The_Learners_During_Covid19_Crisis/links/5fce1f0645851568d146d1b6/Need-Of-A-Proper-Home-Environment-Conducive-To-Promote-Creative-Potential-Of-The-Learners-During-Covid19-Crisis.pdf
5. Olga Wyzga,Health Promotion and Health Education at School during COVID19 Pandemic, <https://bioannales.up.krakow.pl/article/view/8206/7401>
6. Rezaul K.RiponaSadia S.MimaAntonio E.PuentebSahadatHossainaMd. Mahmudul H.BaborcShowkot A.SohandNaemIslama, COVID-19: psychological effects on a COVID-19 quarantined population in Bangladesh, Volume 6, Issue 11, November 2020, e05481,<https://www.sciencedirect.com/science/article/pii/S2405844020323240>
7. Kendra Cherry, Child Psychology and Development, April 08, 2021<https://www.verywellmind.com/what-is-child-psychology-2795067>
8. WWMG Staff, What Is Child Psychology And Why Is It Important?, October 2021,<https://www.wwmedgroup.com/blog/child-psychology/>
9. Sabina Yeasmin,a Rajon Banik,b, Sorif Hossain,c Md. Nazmul Hossain,d Raju Mahumud,a Nahid Salma,a and Md. Moyazzem Hossaina, Impact of COVID-19 pandemic on the mental health of children in Bangladesh: A cross-sectional study ,July 2021,<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7387938/>
10. Mark T Greenberg, Liliana J. Lengua, John D. Coie, Ellen E. Pinderhughes,Predicting Developmental Outcomes at School Entry Using a Multiple-Risk Model: Four American Communities, March 1999, <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2775433/>
11. Randy White,Fall/Winter 2006, Vol. 16, No. 2, Young Children's Relationship with Nature: Its Importance to Children's Development & the Earth's Future April 2006<https://www.whitehutchinson.com/children/articles/childrennature.shtml>

12. Will Schupmann, How Housing Quality Affects Child Mental Health, October 26, 2017,<https://housingmatters.urban.org/articles/how-housing-quality-affects-child-mental-health>
13. Claudia D. Solari and Robert D. Mare, HOUSING CROWDING EFFECTS ON CHILDREN'S WELLBEING, 22 October 2013, <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3805127/>
14. Psychosocial Support for Children during COVID-19, 23rd April 2020 ,<https://www.unicef.org/india/media/3401/file/PSS-COVID19-Manual-ChildLine.pdf>
15. Steffen C. E. Schmidt, Bastian Anedda, Alexander Burchartz, Ana Eichsteller, Simon Kolb, Carina Nigg, Claudia Niessner, Doris Oriwol, Annette Worth & Alexander Woll,Physical activity and screen time of children and adolescents before and during the COVID-19 lockdown in Germany: a natural experiment, 15 December 2021,<https://www.nature.com/articles/s41598-020-78438-4>
16. Online Education System in Mohammad Monirujjaman Khan, S. M. Tahsinur Rahman, Sabik Tawsif Anjum Islam,Bangladesh during COVID-19 Pandemic, Vol.12 No.2, February 2021,<https://www.scirp.org/journal/paperinformation.aspx?paperid=107521>
17. Shamsul Huq Zahid , Getting Covid-time dropouts back to classes,September 2019, <https://thefinancialexpress.com.bd/views/getting-covid-time-dropouts-back-to-classes-1632067207>
18. Faria Selim, 10 million additional girls at risk of child marriage due to COVID-19, 08 March 2021,<https://www.unicef.org/bangladesh/en/press-releases/10-million-additional-girls-risk-child-marriage-due-covid-19-unicef>
19. Keeping Bangladesh's Students Learning During the COVID-19 Pandemic, 18 APRIL 2021,<https://www.worldbank.org/en/results/2021/04/18/keeping-bangladesh-s-students-learning-during-the-covid-19-pandemic>
20. Child marriage up 13% during Covid-19 pandemic in Bangladesh,28th March 2021,<https://www.dhakatribune.com/bangladesh/law-rights/2021/03/28/child-marriage-up-13-during-covid-19-pandemic-in-bangladesh>
21. Pinaki Roy, Naziba Basher,Child marriage in pandemic: A scourge returns on tiptoe, 11 Oct 2021,<https://www.thedailystar.net/news/bangladesh/news/child-marriage-pandemic-scourge-returns-tiptoe-2195446>
22. Md. Akhtarul Islam ,Sutapa Dey Barna,Hasin Raihan,Md. Nafiul Alam Khan,Md. Tanvir Hossain,Depression and anxiety among university students during the COVID-19 pandemic in Bangladesh: A web-based cross-sectional survey,26 August 2020,<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0238162>

23. Md. Sazedur Rahman, Risks to children and young people during covid-19 pandemic, 28 April 2020, <https://www.bmj.com/content/369/bmj.m1669/rr-2>
24. Mamun MA , Mamun FA , Hosen I , Hasan M , Rahman A , Jubayar AM , Maliha Z , Abdullah AH , Sarker MA, Kabir H , Jyoti AS , Kaggwa MM , Sikder MTSuicidality in Bangladeshi Young Adults During the COVID-19 Pandemic: The Role of Behavioral Factors, COVID-19 Risk and Fear, and Mental Health Problems, 20 July 2021, <https://www.dovepress.com/suicidality-in-bangladeshi-young-adults-during-the-covid-19-pandemic-t-peer-reviewed-fulltext-article-RMHP>
25. SM Najmus Sakib, Bangladesh: Suicide claims more lives than coronavirus, 14.03.2021, <https://www.aa.com.tr/en/asia-pacific/bangladesh-suicide-claims-more-lives-than-coronavirus/2175200>
26. Khaled Mahmud, Khonika Gope, Challenges of Implementing E-learning for Higher Education in Least Developed Countries: A Case Study on Bangladesh, December 2009, https://www.researchgate.net/publication/232650882_Challenges_of_Implementing_E-learning_for_Higher_Education_in_Least_Developed_Countries_A_Case_Study_on_Bangladesh
27. Sushmita Dutta, Marzia Khatan Smita, The Impact of COVID-19 Pandemic on Tertiary Education in Bangladesh: Students' Perspectives, Vol.8 No.9, September 2020, <https://www.scirp.org/journal/paperinformation.aspx?paperid=102687>
28. Mohammad Imran Hossain, COVID-19 Impacts on Employment and Livelihood of Marginal People in Bangladesh: Lessons Learned and Way Forward, 10 March 2021, <https://journals.sagepub.com/doi/full/10.1177/0971523121995072>
29. Fateme Mohammadi, Khodayar Oshvandi, Farshid Shamsaei, Fateme Cheraghi, Masoud Khodaveisi & Mostafa Bijani, The mental health crises of the families of COVID-19 victims: a qualitative study, 15 May 2021, <https://bmcfampract.biomedcentral.com/articles/10.1186/s12875-021-01442-8>
30. GUIDANCE ON DISTANCE LEARNING MODALITIES
https://www.unicef.org/rosa/media/7996/file/Guidance%20Continuity%20of%20Learning%20during%20COVID-19%20-%20Reaching%20All%20Children_UNICEF%20ROSA.pdf
31. Nasirra Ahsan, The unequal burdens of working from home, 15 January 2022, <https://www.thedailystar.net/opinion/news/the-unequal-burdens-working-home-1957493>
32. Kishwar Mubin Chowdhury, Challenges of Remote Working During the Covid-19 Lockdown: A Case Study of Bangladeshi Working Mothers in MidManagerial Positions, Volume: 17 Issue Number: 2, December 2020, <https://ajbe.aiub.edu/index.php/ajbe/article/download/7/6/26>
33. Editorial Desk, 85% young flag online bullying seriously, November 2021, <https://cutt.ly/jliXI9201>

APPENDIX-A

Survey Questions:

SQ1: email

SQ2: location

a)Town b)Village

SQ3: Children Age

SQ4: Children Sex

a)Male b)Female c)Transgender

SQ5: Children class

a)Pre b)Primary c)High d)Secondary e) Higher Secondary

SQ6: Children school type

a)Private b) Govt

SQ7: Family type

a)Joint b)Nuclear c)dynamic/irregular

SQ8: During lockdown involved in income or get married

a) Married b) Income c) No

SQ9: Number of family members.

SQ10: Number of siblings

SQ11: House space type

a)Sufficient b) very less c)surplus

SQ12: House structure / space related limitation

a) Lack of congenial atmosphere b) Lack of privacy

SQ13: House internal environment related issue

a) Yes b)No c)Other:

SQ14: Children has any conflict or issue with house internal/ external / neighbor

a)Yes b)No c)Other:

SQ15: Father educational qualification

a) Under SSC b)SSC c)HSC d)Bachelor e)Masters f)Phd

SQ16: Mother educational qualification

a)Under SSC b)SSC c)HSC d)Bachelor e)Masters f)Phd

SQ17: Father Profession

a)Govt job b)Private job c)daily earning (hand to mouth) e)business

SQ18: Mother profession

a)Govt job b)Private job c)daily earning (hand to mouth) e)business

SQ19: Mother profession status

a)running b)job less c)in transit

SQ20: Father Profession status

a)running b)jobless c)in transit

SQ21: Parents satisfaction level about their social status

a) High b)medium c)low

SQ22: Parents satisfaction level about their economic status

a) High b) medium c)low

SQ23: COVID 19 effect

a)job loss b) salary cut down c) death

SQ24: Source of recreation

a)TV b) indoor game c) creativity work d)surprise e) cooking

SQ25: Children passion/hobby

a) story book b)painting c)stamp d)game e) screen interaction

SQ26: How children passes leisure time

a)mobile b)tv c)gossip d)creative work

SQ27: How father passes leisure time

a)Rest b)Gossip c)Household work d)Travel e)Other:

SQ28: How mother passes leisure time

a)Rest b)Gossip c)Household work d)Travel e)Other:

SQ29: Repeated cause of parent children conflict (if any)

a)study b)TV c)assign work d)demand toy or things e) Other

SQ30: Performance on study

a)Slower b)Medium c)High

SQ31: Children concentration level

a) Less Concentration b) Medium Concentration c) Good Concentration

SQ32: Parents reaction due to conflict with children

a)screaming b)slapping c)threat d)meal or other facilities off e)mutual discussion in cool head

SQ33: Conflict frequency

a)Frequently b)Medium c)Rear

SQ34: Parents concern about mental health

a)Take counseling b)Learn from media c)No Concern

SQ35: Bad effect of conflict

a)Smoke or starvation b) Walk out c)Suicide attempt d)Destructive activities

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