

CAREER PATH

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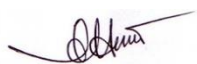
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OCTOBER 2020

APPROVAL

This Project titled “**Career Path**”, submitted by **Lithy Ema Rozario (162-15-7989)**, **Tania Maksum Mou (162-15-7698)** and **Farzana Sarkar Bristy (162-15-8238)** to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 7th October 2020.

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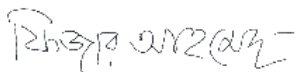
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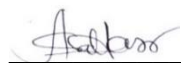
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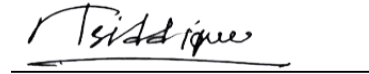
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DECLARATION

We hereby declare that, this project has been done by us under the supervision of, **Shah Md Tanveer Siddiquee, Assistant Professor, Department of CSE** Daffodil International University.

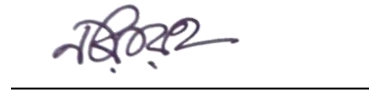
We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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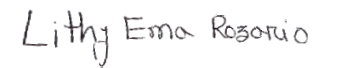
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Finally, we must acknowledge with due respect the constant support and patients of our parents.

ABSTRACT

Career path is choosing the appropriate career for future. It is very essential to know which path is effective for a specific type of career. In this project we are going to propose a system which can help the students to choose their career by predicting their academic background and their interest in other activities. This android based application will give them a proper guideline for selecting a specific job. Our proposed system will solve the problem and give the students a proper way of choosing their career. For anyone, through an app, can easily get guideline on how they should prepare themselves for their career.

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CHAPTER 1

Introduction

1.1 Introduction

In this 21st century the world is growing faster day by day. To cope up with this world people need to make them successful by choosing an appropriate career path for themselves. Choosing a career is one of the most important decisions for anyone to make in life. It's about so much more than deciding what will do to make a living. Many people don't put enough into choosing occupations or pick them for wrong decision. Most of the students who are in the school level do not have a proper idea which path they should choose for their desired career. A proper guideline can help the student to achieve their goal.

1.2 Motivation

In this 21st era there are lots of opportunities to work. Most often specially the students who are at school level facing problem to choose their career. They got confused which career they should choose. So, we have to get a smart solution to solve the problem.

1.3 Objective

- To help students and graduates to understand the skills requirements to equip for career path they choose.
- Help to identify the interests.
- How to achieve such goal.
- Determination of goal.
- Experts suggestions.

1.5 EXPECTED OUTCOME

Our goal is to develop a system where student can get some guideline how they should prepare themselves for meet their desired goal. It will be more preferable.

1.6 Report Layout

This report is divided into five parts and each part gives knowledge of this area

1. Chapter one provides introduction, motivation and expected outcome of the study.
2. Chapter two talks about related research work.
3. In chapter three necessary framework, framework design and framework stream searches are given.
4. Chapter four of this document describe our proposed system design, implementation and testing.
5. Chapter five is on conclusion, limitations, comparisons and future studies

Chapter 2

Background

2.1 Introduction

Our proposed system is an android application. Nowadays we use so many applications which makes our life even easier. Our system is an educational based application. There are many apps which helps the students to learn different things in home like-Robi ten-minute school, and there are some apps which can calculate student result like -GPA calculator. Now we are thinking about a app which will help the students to predict their career and show them some proper guideline to reach their desired goal. For this they have to download the app and sign in. Then they can use this application.

2.2 Related works

Today there so many apps which are educational. Most of them are for learning based, some apps predict result but no one offers how to choose career or give guideline. We can learn things easily which we want to learn but we face problem when we want to choose our career. We were very confused about our desired goal. We need some proper guideline. We search for this type of apps which can solve this problem but we couldn't find any.

2.3 Research Summary

In this investigation, we are trying to solve this problem of choosing career and reduce the confusion of students for choosing their career. We have to predict their career based on their academic result and interest. We need some guideline to choose the right path. So we are trying to make an app for solve this problem.

2.4 Scope of the problem

The career path application is focuses on finding a solution to solve the problem of choosing career.

Management

A huge part of our application is depending on management. To managing the system properly the management must follow all the instructions and rules of the system.

Cost

We tried our best to make the app as cheap as possible. So, it would be easy for student to use this app who are using android phone.

Challenges

When we considering this apps, we face many challenges. Here are some problems:

Process of collecting data

We did a survey on the people specially those who are student but it was little bit difficult to collect data properly.

Process of time management

Time management is a problem. User cannot use the app in a hurry.

Chapter 3

Requirement specification for the proposed system

3.1 Introduction

Requirement specification in this project, those who will use this project that can be said that it will be very user friendly. So, requirement is react-native, android phone, database. Which has a combination of software and hardware.

3.2 Flow Chart of Proposed System

Figure 3.1 shows a flow chart how the app is working for choosing a career. At first the user will log in the apps. Then they choose their class. They will select option as an example they select their result, department etc. The admin will provide them guideline which path they should follow. The user can ask suggestion from the expert.

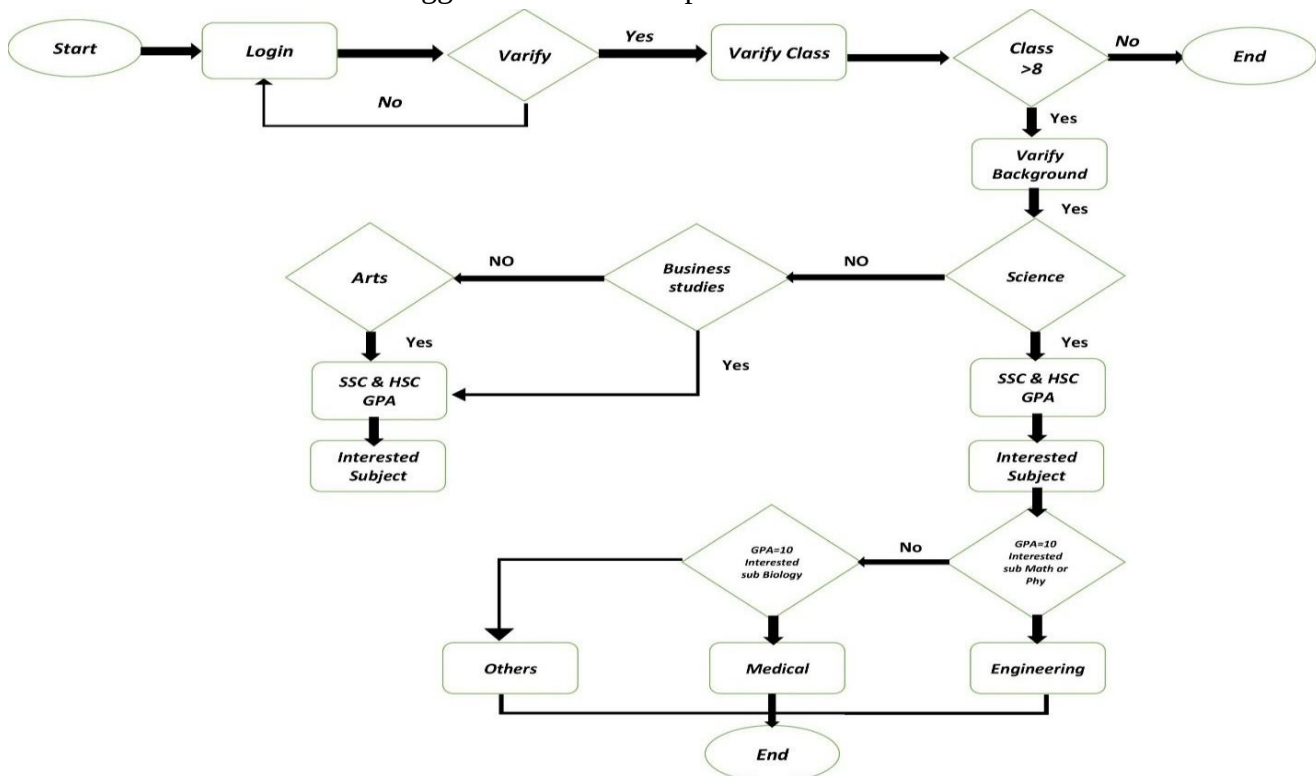


Figure 3.1: Flow chart is working in the process of choosing career.

3.3 ER diagram

Figure 3.2 shows ER diagram of our designed system

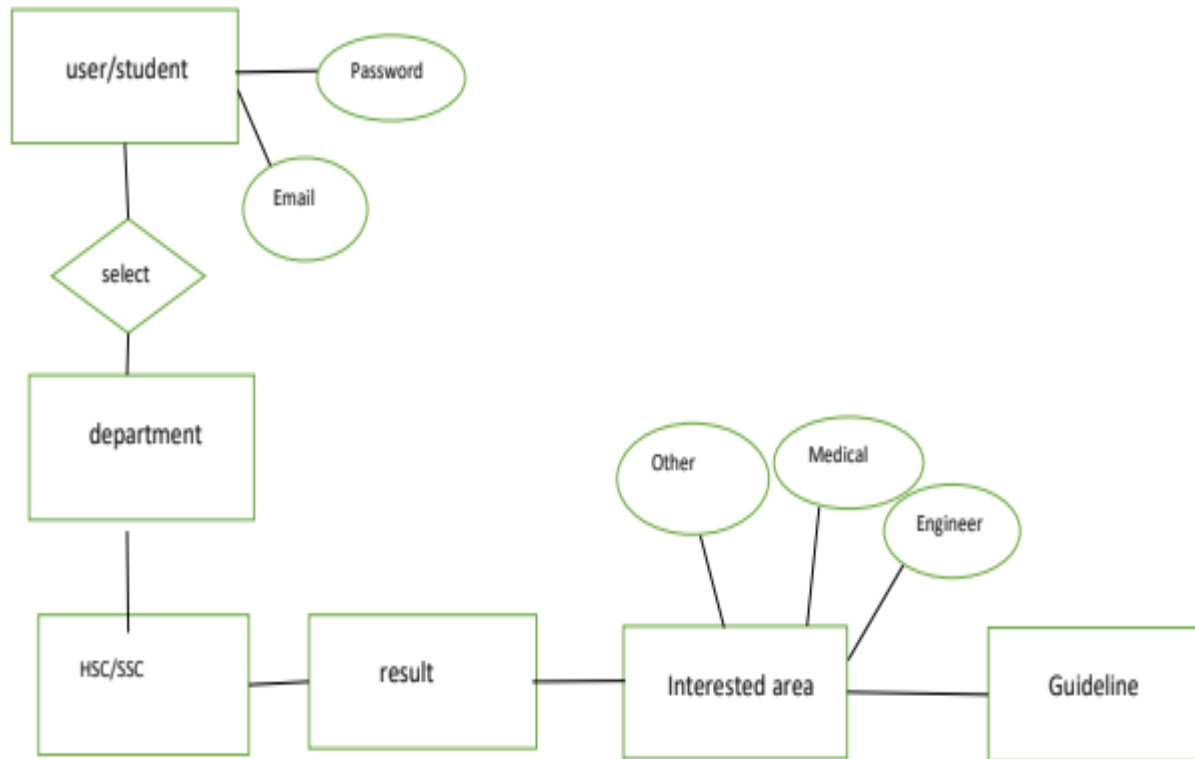


Figure 3.2 ER diagram of our designed system

3.4 Use case diagram:

Figure 3.3 shows Use Case diagram of our proposed system

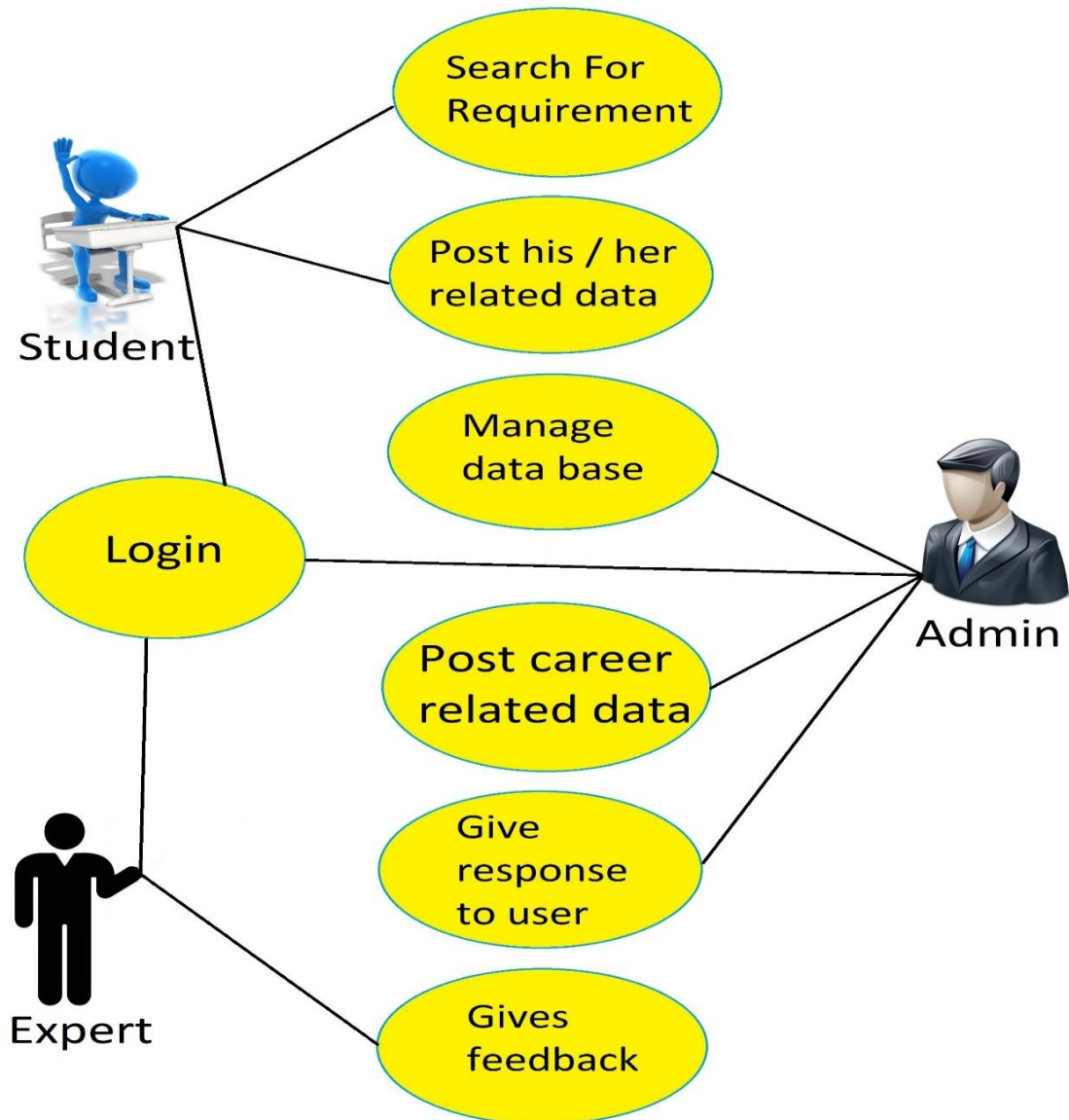


Figure 3.3 Use Case diagram of our proposed system

3.5 Use case description

Registration

Table 3.1 shows use case description for collect data. When student register then it will be stored on a database.

UCID	01M
Use Case Name	Registration
Actor	Student
Pre-Condition	Null
Normal Flow	1)Student Name, Email.
Post Condition	Successfully complete

Table 3.1: Use Case Description for Registration

Log-in

Table 3.2 shows use case description for all the user they need to use. They have pre condition they must be register to log in the system. If any user input invalid email address or password they cannot use the system. If everything is alright they can use the system.

Table 3.2: Use Case Description for log-in.

UCID	02M
Use Case Name	Login
Actor	Student
Pre-Condition	Complete Registration
Normal Flow	Enter their email and password and login the system
Alternative Flow	Enter an invalid name or password, system display error message
Post Condition	Successfully login.

View user profile

Table 3.3 shows use case description view the user profile.

Table 3.3: Use Case Description for view user profile.

UCID	03M
Use Case Name	User Profile
Actor	User
Pre-Condition	Login
Normal Flow	1) User can view their profile. 2) Input their sub
Alternative Flow	The actors enter an invalid amount.
Post Condition	Success

3.6 Equipment's for proposed system:

1. Smart mobile phone
2. Internet connection

Platform for the application:

Platform: Android, Web

Language: JavaScript, CSS, Html, JSX

Tools: React js, React native, Visual Studio Code

Storage: Firebase, Shared Preferences

React native

Our project is android based. We used react native in authority IDE for the development of our application. React native is used for the front-end and back-end both design for the proposed system.

Chapter 4

System Design Implementation and Testing

4.1 Introduction

In this chapter we will discuss what kind of approach we have taken to solve this kind of problem. Our proposed system will give expected result.

We made one app. Where two tasks will occur simultaneously. One step will be used by the user and another step is for the use of admin. The user will select their option as their act.

The user has to log-in in the apps. Then they can choose their option and get the result about their career related problems. They can see many options and choose between them. The admin receives the request and provide them answer.

If any user uninstalls the app, he/she needs to install and log-in again. By any chance if they forget their password, they have to request for setup a new password.

4.2 System Design

The main target of this project is to eliminate the confusion of the student that, which path they should choose for a successful career.

4.3 Implementation of The Proposed System

Figure 4.1 shows Registration panel front page

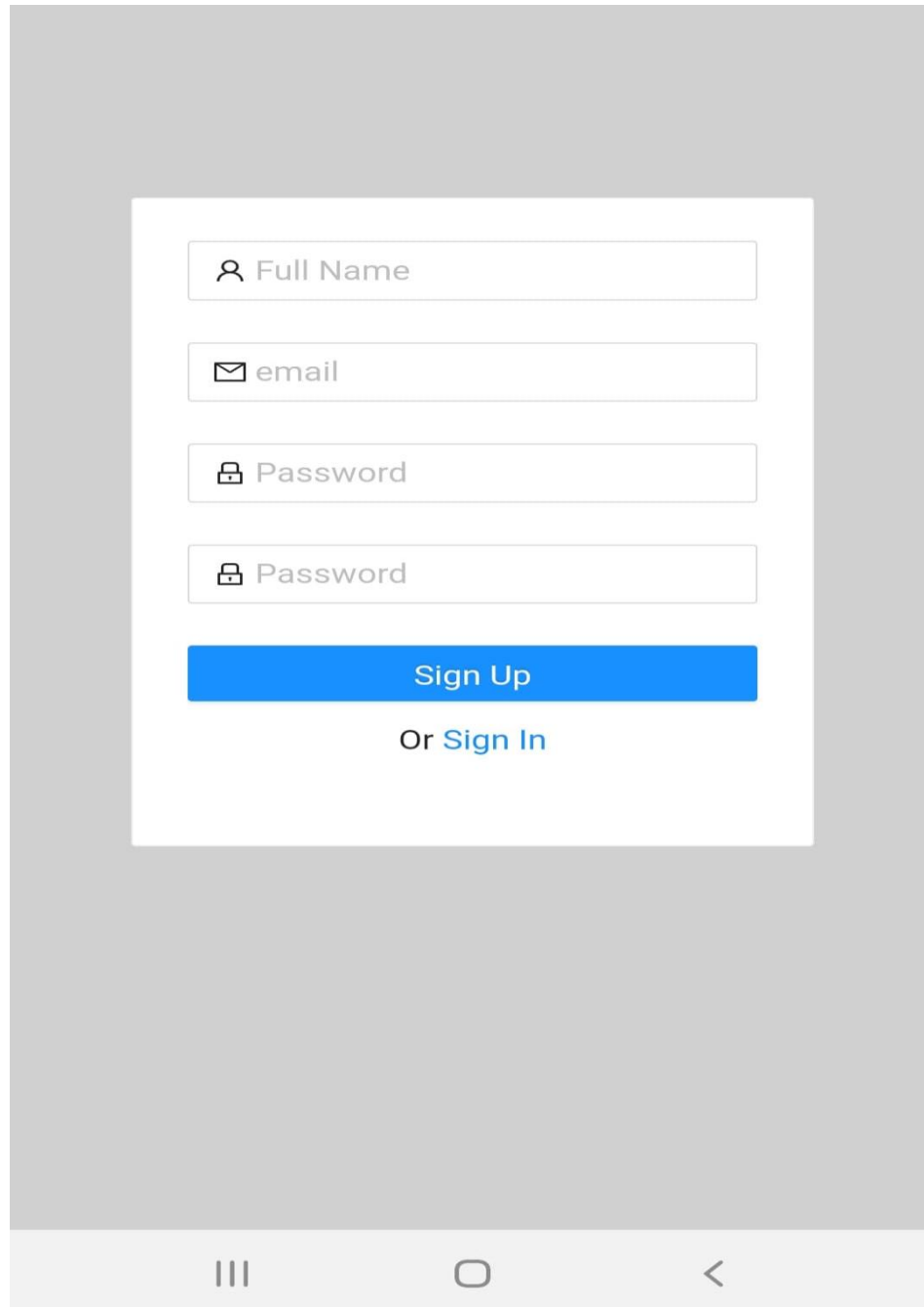
The image displays a registration form on a mobile device screen. The form is centered on a light gray background. It consists of four input fields stacked vertically: 'Full Name' with a person icon, 'email' with an envelope icon, and two 'Password' fields with padlock icons. Below these fields is a prominent blue 'Sign Up' button. Underneath the button, the text 'Or Sign In' is displayed, with 'Sign In' being a clickable link. At the bottom of the screen, there is a standard Android navigation bar with three icons: a square, a circle, and a triangle.

Figure 4.1 Registration panel front page

Figure 4.2 shows Log-in panel front page

Person icon Username

Lock icon Password

☒ Remember me [Forgot password](#)

Log in

Or [SignUp Now](#)

 Login with Google

Figure 4.2 Log-in panel home page

Figure 4.3 shows User front page

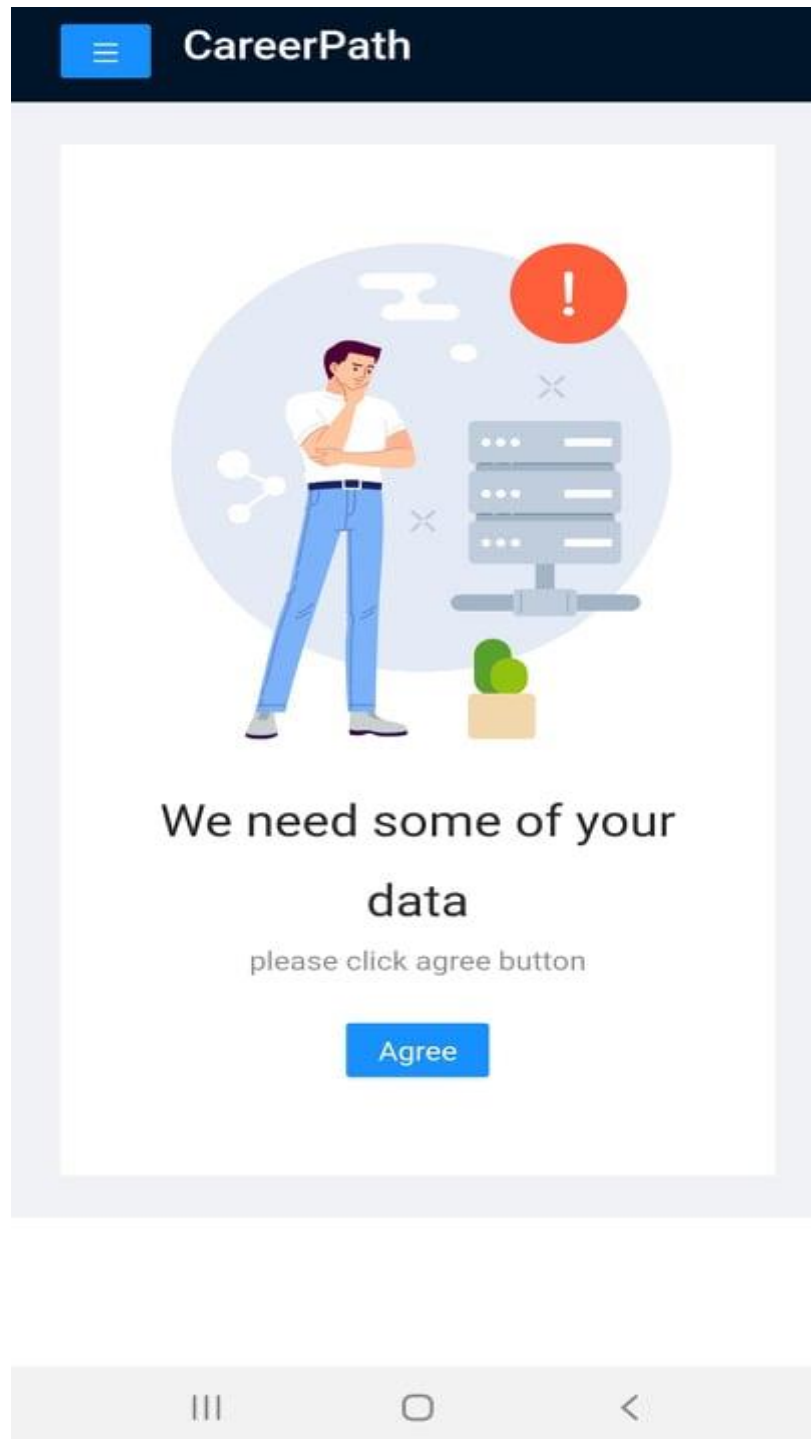


Figure 4.3 User front page

Figure 4.4 shows Option panel page for User

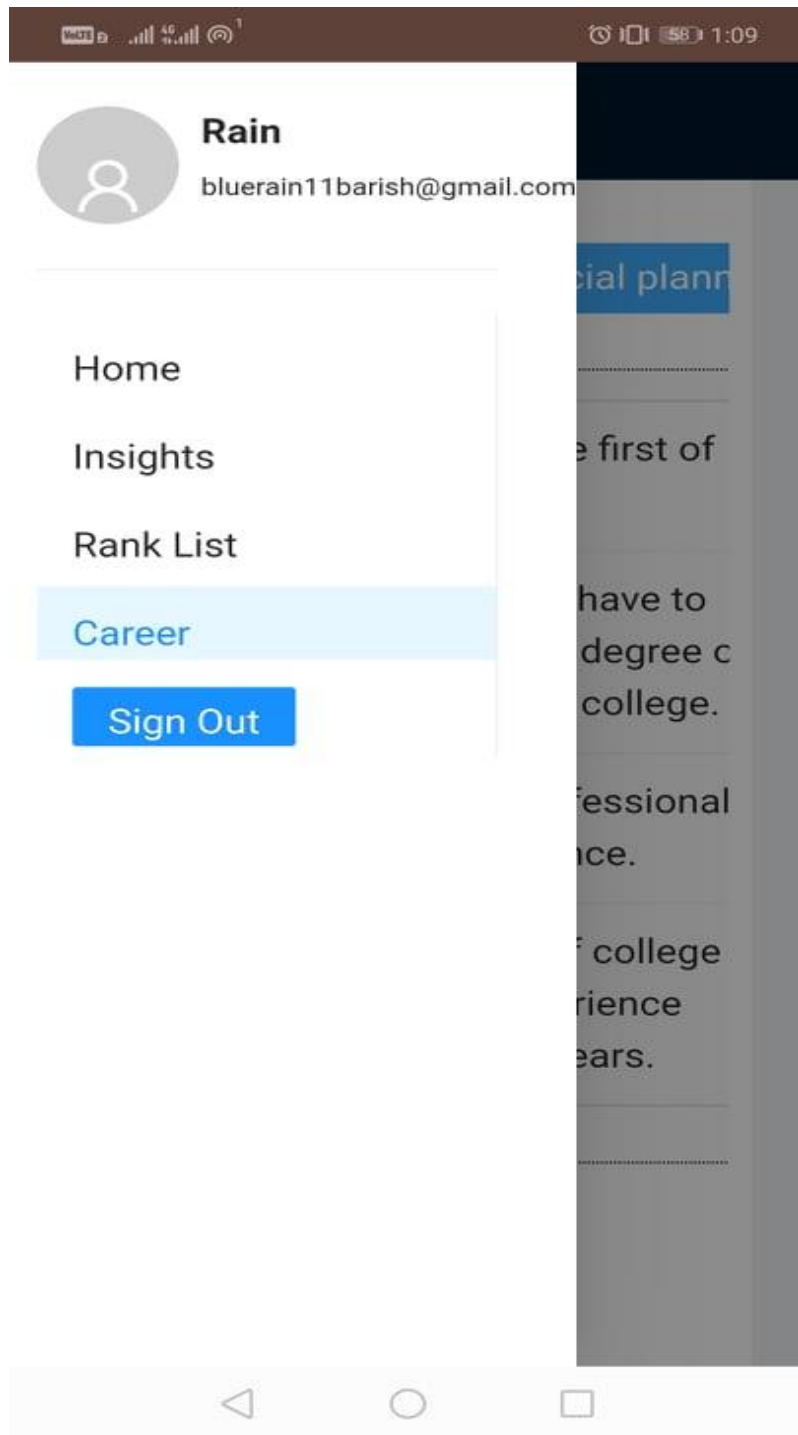


Figure 4.4 Option panel page for User

Figure 4.5 Another panel

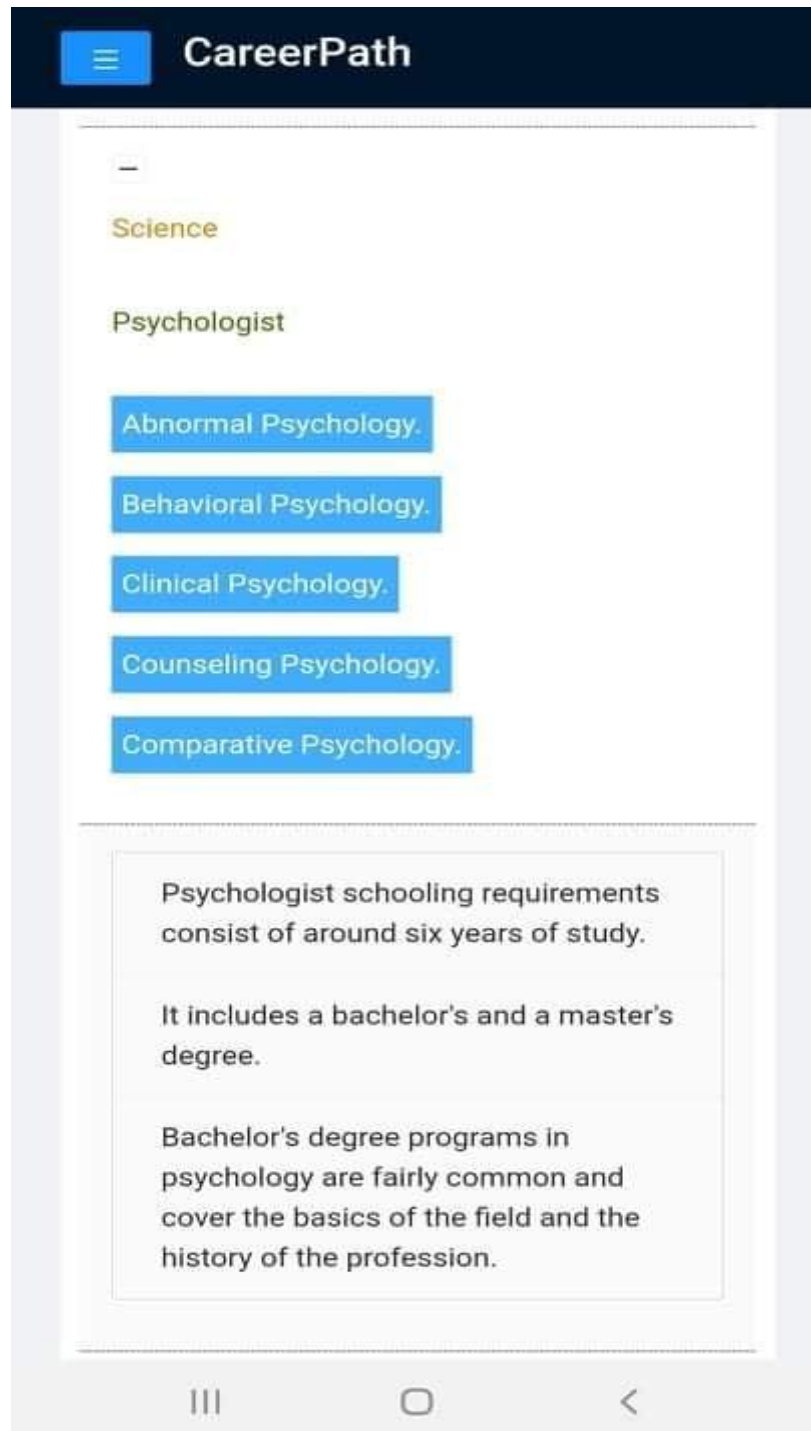


Figure 4.5 Another option panel

Figure 4.5 shows User career choice

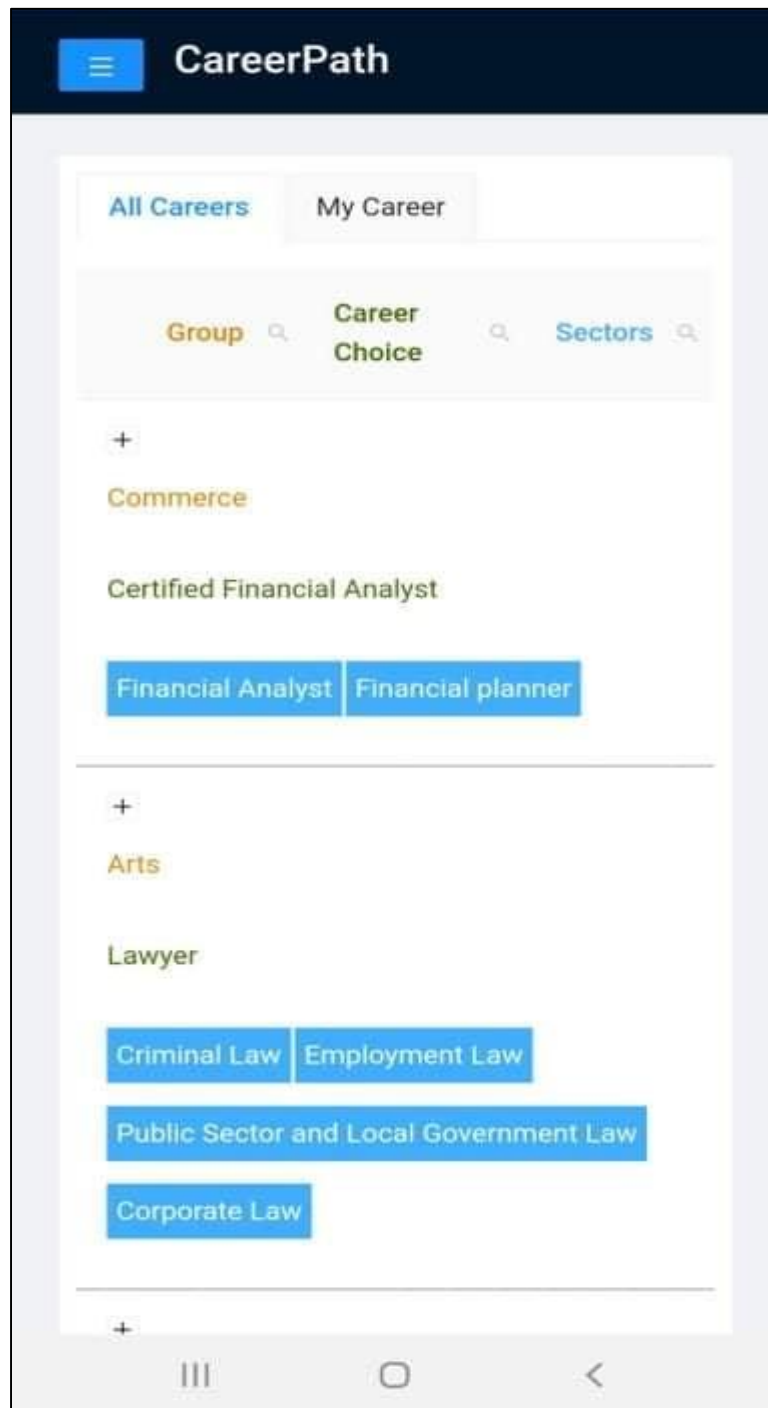


Figure 4.5 User career choice

4.4 Testing

Integration Testing

Integration testing is a software testing methodology used to test individual software components or units of code to verify interaction between various software components and detect interface defects. Components are tested as a single group or organized in an iterative manner. After the integration testing has been performed on the components, they are readily available for system testing.

Table 4.1 Integration Test

Test Case	Expected Result	Observed Result	Test Result
Log-in	Student/User get to log in	Get sign up in proper time	Pass
Student/User select option	Student can select their department easily.	Student selected option stored.	Pass
Student can see their result	Student can see their result according to their selection.	When any student select option that successfully added their panel	Pass
Students can ask suggestion from experts	Student can easily get guideline.	Experts easily suggest and provide answer	Pass

System Testing

System Testing is a type of software testing that is performed on a complete integrated system to evaluate the compliance of the system with the corresponding requirements. In system testing, integration testing passed components are taken as input. The goal of integration testing is to detect any irregularity between the units that are integrated together. System testing detects defects within both the integrated units and the whole system. The result of system testing is the observed behavior of a component or a system when it is tested.

Table 4.2 shows test cases, expected result and observe result of system testing

Table 4.2: System Test

Test Case	Expected Outcome	Observed Outcome	Test Result
Student/user should login app with email and password.	Student/user can login the app	Can login	Pass
Student/user should select their department.	Student can select option	Can select	Pass
Students should view their result.	Student/user can view their results after selection	Can view result	Pass

Chapter 5

Conclusion, Limitations, Comparisons and Future Studies

5.1 Conclusion

Choosing career is the first step in discovering someone true calling. In our proposed system students can see various career opportunities. Our system gives them suggestion which path they should choose for their desired career. As students will use this app form their android phone, they can access from anywhere. This will erase their confusion and help them to become successful.

5.2 Limitations

There are some limitations.

- User need to have a good knowledge about smart mobile phone and computer.
- User can work with it only there Wi-Fi or Data connection with his/her mobiles.

5.3 Future work

We will try to add more options on international level. So that students can get guideline on higher studies, and also try to make it more user friendly.

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