

**WEB BASED PROJECT
“HOSPITAL TRACKING AND AMBULANCE BOOKING SYSTEM”**

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This Report is presented in Partial Fulfillment of the Requirement for the Degree of Bachelor of Science in Computer Science and Engineering.

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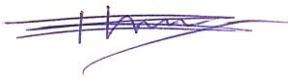


**DAFFODIL INTERNATIONAL UNIVERSITY DHAKA,
BANGLADESH. MAY, 2021.**

APPROVAL

This Project/internship titled “**Web based Project Hospital Tracking & Ambulance Booking**”, submitted by Joy Bhowmik, Fazlay Rabbi and Habibur Rahman, ID No: 171-15- 9451,171-15-9455 and 171-15-9460 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 02-06-2021.

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DECLARATION

We hereby declare that. This project has been done by **Joy Bhowmik, Md. Fazlay Rabbi and Md. Habibur Rahman** under the supervisor of **Lamia Rukhsara (LR), Lecturer, Department of CSE** Daffodil International University, we also declare that, neither this project nor any part of this project has been submitted elsewhere for Awards of any degree or diploma.

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ACKNOWLEDGEMENT

First of all, we express our heartiest thanks tense gratefulness to almighty God for His divine blessing make us possible to complete the final year project successfully.

The real sprit of achieving a goal is through the way of Excellence and severe discipline. We should have never succeeded in completing our task without the cooperation, encouragement and help provided to us by several personalities.

We should like to express our deepest appreciation to our supervisor **Lamia Rukhsara, Lecturer, BSc in CSE program Daffodil International University**. Their endless patience, scholarly guidance, continual encouragement, constant and energetic supervisor, constructive criticism, valuable advice, reading many substandard draft and correcting them at all stage have made it possible to complete this projects. We are especially grateful to our honorable teachers.

We would like to express our hardest gratitude to **Dr. Touhid Bhuiyan. Head Department of CSE program Daffodil International University**, for his kind help to finish our project and We would also like to admit with much appreciation the crucial role of the staff of Daffodil International University who give us the permission to access all kind of library materials and equipment to gain knowledge and to clear out our understandings and we have to appreciate the guidance given by the other supervisor and lecturers who have helped us to clear we understanding and create a concern and importance of completing the project report carefully with maintaining good knowledge.

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

ABSTRACT

The web based project is a simple website that is about Hospital Tracking & Ambulance Booking system. The project mainly works if anyone need emergency service that if he wanted to go a hospital or find the nearest medical service in his location. Technology update day by day and we are in a top level of use of it such as everything are dependent on modern technology. This web site is a hospital location tracking system that helps people to find the nearest hospital in his/her location when emergency occurs. This website can help many people when they need emergency help to locate or find any hospital for their patient. We started to develop this project from October 2019. But during the covid19 situation we all are staying home and our project work are postponed almost one year. When we starting to develop this project, it needs a lot of hard work, patients, dedication to meet the requirements of our project. After complete our first task, we make our design, then implementations. And then start our work on it.

In this project we make a website that simply helps the people who want this kind of information like hospital management, nearest hospitals information, ambulance services.

The project 'Hospital Management System in medical science with Ambulance Booking' is based on web based, object oriented programming and networking techniques to apply. We use html, CSS ,Java Script and PHP. There are many areas where we track the records in our database for which we are using my SQL software which is one of the best and the easiest software to keep our data safe and use. This project we use java as the front-end software which is an Object Oriented Programming language and has connected to my sql server.

This will helps people further we think and our work is done nicely we are very much happy.

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CHAPTER 1

INTRODUCTION

1.1 Brief Explanation

This web based project is working on emergency issues. We all know health is wealth. In this world we need to live healthy, happily and faithfully. Our main target is to do something in medical sector we all know what is the current situation of our medical service sector. People can not get their proper treatment in hospitals, they are not able to find the proper hospital information and can't go to hospital in emergency cases. They always confused how to go hospital and which hospital which is the nearest to them. Our main target is ensure public to find hospitals easily and go there by ambulance. We need to develop our medical sector as well as our total progress of our country.

Still our counter is a developing nation Bangladesh has seen a tremendous growth of the health service sector in the field of research, analysis and invention as well as in the field of development of numerous big and small scale Hospitals. Government of Bangladesh has still aimed at to ensure medical facilities by establishing many hospital medical center as well. The basic working of various hospitals in Bangladesh is still under facilities to all its citizens and make sure the proper medical service to all. They try their best in this segment we see many steps are taken to overcome this horrible situation. There are almost over thousands of medical complex and service centers in Bangladesh. Private hospitals in Dhaka, has many technology supports huge facilities for the best treatments for all kinds of diseases. And our approaches is to make easy the system to the customers and get easily into the nearest hospital. We provide our best hospital information among the cities as well as rural areas. Ambulance booking system is another objective of our project with live location tracking, where you find the nearest Ambulance navigation and hire them. We built a user friendly website so that you can easily go our website and get your hospitals, their facilities, functions, services, managements, costs, transportation like Ambulance services, doctor meetup and overall all management when you get sick or you need emergency help. This is very important when you need all information in one website just browsing it.

1.2 Motivation

The running world we know many Growing countries, there are a comprehensive problems that always need to be solved. This problem occurs when anyone want to admit a patient in hospital but he did not know which hospital is close to him and how far he wanted to go for the service. Our main motivation is to help people to overcome this issue easily and find the nearest hospital very easily. That's our main thing.

1.3 Our Objectives

This is the best way to public and other private organizations hospitals medical organizations to find and go there.

We will provide best service that anyone can easily open this smartphone or computer or any other digital device that helps him to find the nearest hospital.

We will provide authorized functionality from our project from some features to this current system where private and other organizations can only view by the authorized user.

We will provide some recording functions for our web site every process of modifications.

We will ensure our objectives main thing that we bear in mind.

We will manage all Information from our users safe and private.

We will collect all Information from our own source and who will request for adding as much as hospital information.

1.4 Expected Outcomes

The satisfy result from this web based project is the online service that will find easily and public of our country can easily helped to gain the right information. It seems like that many people of our country do not know proper information about medical sector. Hopefully it will helps them.

1.5 Report Layout

Report design portray a rundown of all the part. A concise outline of all sections is given underneath:

Chapter 1: To depict a presentation of the online hospital finding and verification system, inspiration, objectives, expected result and the report design.

Chapter 2: To Depict the presentation, Relative Works, Relative Study, The Scope of the suffer Challenges.

Chapter 3: To Depict the Business Process Modeling, Necessity Collection, Design Necessities.

Chapter 4: Portrays the Front-end plan and Back-end plan.

Chapter 5: Portrays the Database, Front site plan, Co-operations, Testing Reports and planning.

Chapter 6: Depict the Conversation & End, Extent for Further cements.

CHAPTER 2

CURRENT WORK & PREVIOUS WORK

2.1 Introduction

Our background study is all about our medical industry how they run or what are the motive or objectives and what impact on daily life. The main purpose of this assignment is to identify our problems and make a solution of it. We collect our needed information in different websites and then we go many hospitals physically to see the current situations of our hospitals and there works how they treat sufferers. The main background study is research based on data and analysis them to make our decision that we need to study on it and make a project. We find many problems in hospital related and try to solve it.

We need to develop our medical sector as well as our total progress of our country.

There are so many previous projects in Hospital management or medical sector but we need a solution to go the proper needed hospital as soon as possible. That is our system our website will provide you the nearest hospital in your area with lot of information along with the first ambulance service. And our approaches is to easy the system to the customers and get easily into the nearest hospital. We provide our best hospital information among the cities as well as rural areas. Ambulance booking system is another objective of our project with live location tracking, where you find the nearest Ambulance navigation and hire them. We built a user-friendly website so that you can easily go our website and get your needed information.

2.2 Relative Works

Relative works to say, there are so many relative work in this topic but we done it by our own intention. It is an innovative idea that helps so many people to find the best solution of emergency help. Our work is unique by ideas and it is a simple work. We try to make as simple project as possible by ourselves.

2.3 Comparative Work

There are many comparative works in this topic but when we compare it seems like all are the same copy pest. We know every day is a new challenge for us in covid19 global pandemic situation we need to be more conscious about our life. It is important to live in this world. We do so many research in this topic and choose this project. Finally it helps us to find a solution about medical terminology.

2.4 Extent of Work

There are many scope in medical technology nowadays. It became very much dependent on computer technology. Now it is very easier to operate robots in medical agenda. The public healthcare services are organized along with healthcare and hospital management.

Contempt pretext in technology, nowadays, many blood and organ donation systems are running in online systems. Bangladesh has a good healthcare network both rural and urban areas.

what is the difference between google maps and our website to find the nearest hospital facilities?

why the level of perception among people to interest on our website?

2.5 Problems

There so many challenges or problems in any kind of work. There also some problems we faced. The main problem was to find out the hospital list that especial terms and condition. The main challenge was to add google map I frame on the back end. It has also some problems too, we are working on it to resolve it nicely. We are working on to add database management system to our project. The hospital management system will be add on our next update hopefully.

CHAPTER 3

EXPERIMENTATION REQUIREMENTS

3.1 Business Ideas Modeling

The venture which we are imitating depends on direct our website that helps many people surly. But one thing is we need our business partner. The hospital authority and ambulance agency could be a good option to deal with. If we add their information or address in our website people go to there organization and this way they would be benefited. At a certain point they will pay us to adding their organizations in our website that's we will be benefited from our projects. Google adds preference is another business process model we should follow.

3.2 Data Collection and Analysis

Hospitals Information

Doctors Information

Address of every hospital

Ambulance agency contact number with full address

Google API

User login

Management systems

Medical sector development

Website making things

First Aid facilities with Ambulance live location trekking

CHAPTER 4 DESIGNING



Figure 4.1: Website Main Page Design.

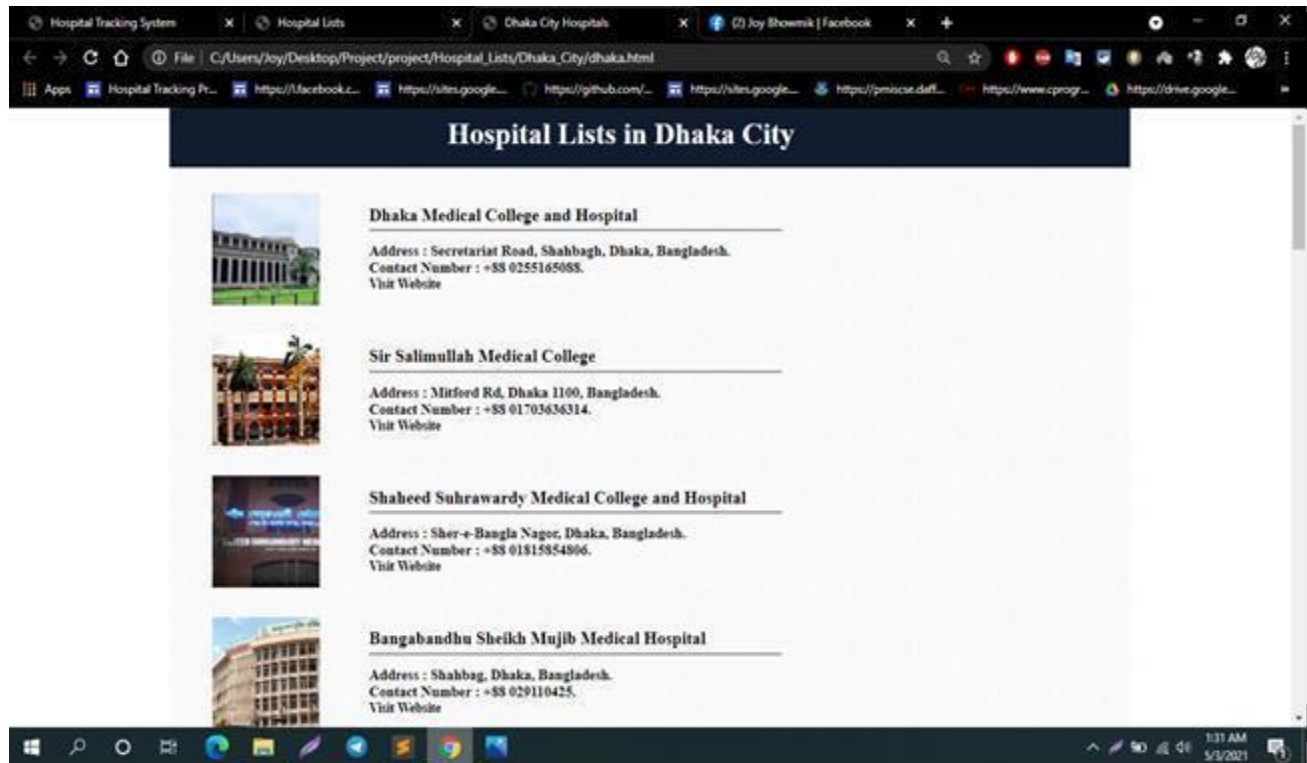


Figure 4.2: Hospital List in Cities

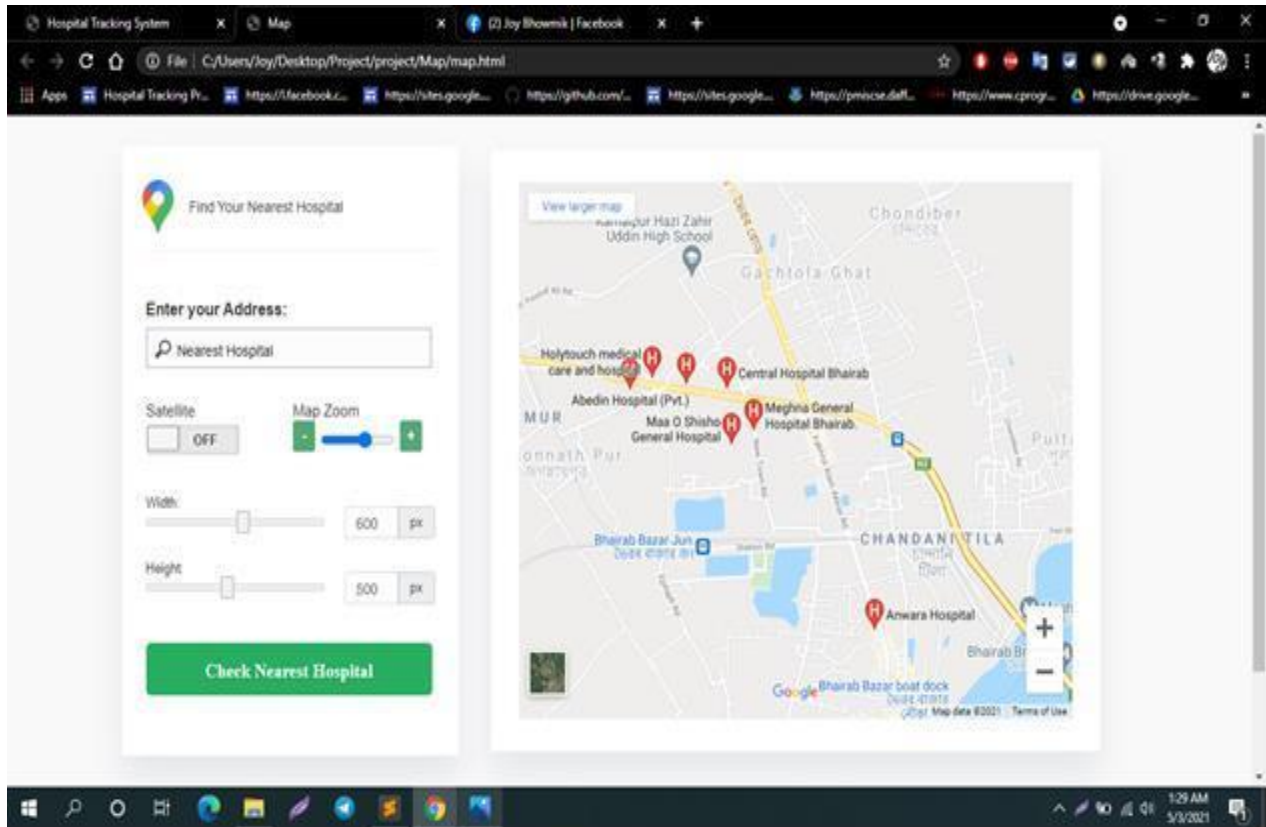


Figure 4.3: Find Nearest Hospital.



Figure 4.4: Cities Hospital List

Hospital Lists in Mymensingh City



Emergency Department, Mymensingh Medical College and Hospital

Hospital Lists in Mymensingh City



Emergency Department, Mymensingh Medical College and Hospital

Address : Chorpara, Dhaka-Mymensingh Rd, Mymensingh 2200.
Contact Number : +88 01768-027015.
Visit Website



Mymensingh Medical College Hospital

Address : Char Para, Medical Rd, Mymensingh 2200.
Contact Number : +88 01712644005.
Visit Website



Mymensingh Medical College Hospital Outdoor

Address : Mymensingh, Bangladesh.
Contact Number : +88 091-66063.
Visit Website



Pranto Specialized Hospital

Address : 67 Dhaka-Mymensingh Rd, Mymensingh 2200.
Contact Number : +88 01788-222000.
Visit Website

Figure 4.5: Hospital Lists in Mymensingh City

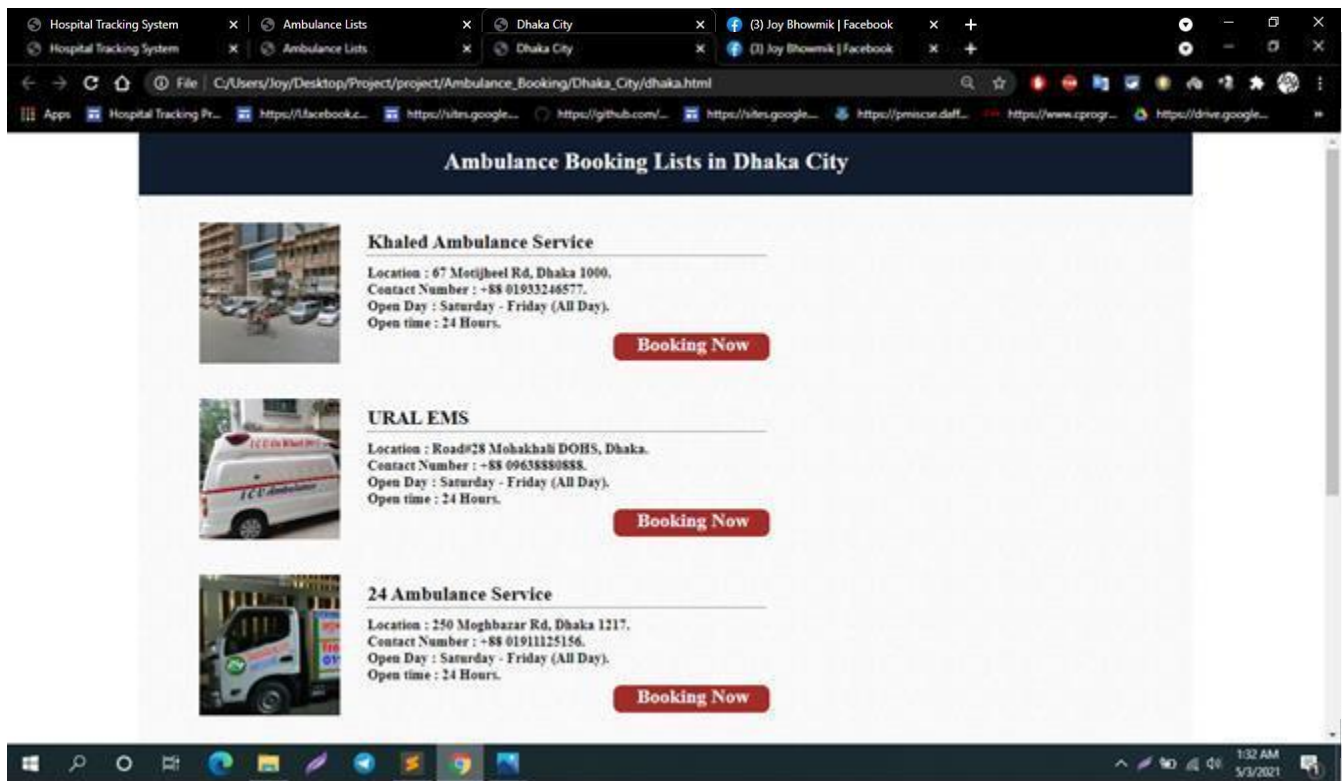


Figure 4.6: Ambulance Booking

Doctors Lists

The screenshot shows a web browser window with the title "Doctor Lists in Dhaka City Hospitals". The main content is a list of four doctors at Dhaka Medical College Hospital, each with a placeholder icon of a doctor and their respective qualifications and specialties.

Dhaka Medical College Hospital			
			
Prof. Dr. M.N. Huda MBBS (DMC), DDV (DU), FCPS (Skin & Sex) Expert Dermatologist, Sexologist & Venereologist Dhaka Medical College & Hospital.	Prof. Dr. Md. Hafizur Rahman MBBS (DMC), DEM (BIRDEM), MACE (USA) Diabetes, Thyroid & Hormone Specialist Dhaka Medical College & Hospital.	Prof. Dr. Indrajit Prasad MBBS (DMC), FCPS (Medicine) MD (Endocrinology), FACE (USA) Diabetes, Thyroid & Hormone Specialist Dhaka Medical College & Hospital.	Prof. Dr. Salma Sultana MBBS, FCPS (Surgery), MS (General Surgery) Breast, Colorectal & Laparoscopic Surgeon Dhaka Medical College & Hospital.

Figure 4.7: Doctors List

4.2 Back End Design

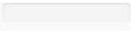
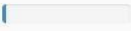
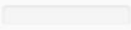
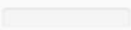
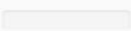
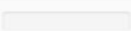

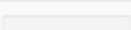
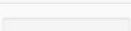
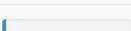
Files in home directory.	0.09 MB	
Files in hidden subdirectories.	2.18 MB	
etc/	0.01 MB	
logs/	0.17 MB	
iscache/	0.00 MB	
public_ftp/	0.00 MB	
public_html/	149.84 MB	
ssl/	0.04 MB	
tmp/	1.16 MB	
MySQL	2.72 MB	

Figure 4.9: Home Page File Data base Connection

4.4 Implementation Requirements

Purpose: The normal sites for prepare this documents is to planning a generally insights into the analysts, re checking and thoughts and need for this stay alive systems or situations and for determined the operations Specialty of the whole systems.

Scopes: The common records are gamming a great presentation in the developmental process life cycle and its impact to describe the completed important planning from the same system for the people of the people. It is intended for users by the developer and will be the basics concept during the testing phases and we find no more bugs and problems. Any kind of changes made to the Necessity include the futures will have to go with the help of formal change approvals process by our team members gradually time to time. This is a simple implementation requirements we need to find.

CHAPTER 5

EXPERIMENTATION AND TESTING

5.1 Experimentation of Database

In Experimentation phase we go through testing and testing process. We move forward by testing step by step and connection are strongly maintain for our project. The website main architecture design and implementations that we make changes by ourselves.

5.2 Experimentation & Implementation Font End Design

Experimentation and Implementation of this kind of project is not easy. It took a lot of time to experiment our work in several phases and then implementation time it is implemented nicely all its functionalities. During the implementation process we need to follow so many programming and coding techniques. Here are given some programming languages and frameworks that we use:

- **Front End**

- **HTML:**

Hypertext Markup Language it is the very necessary and easy language for designing. It is a basic and easy way to display an internet browser framework from the pc. Internet browsers acknowledge HTML languages from archive from a worker HTML depicts. It mainly depicts the formation and foundation of a website or a page semantically and handful consist of and materially comprised for the outlook of the archive.

- **Bootstrap:**

Definition: It is free source CSS framework. Makes websites portable web development system. It consist of a JS based sketch making and measuring pole for secondary measure typography. It make use structures, catches, Route and a few interface Element. Bootstrap is the one of the best web developing tool find in free and has a great advantage of website making. It makes menue frameworks and route frameworks, modals frameworks, picture and so forth. It likewise given us support for JS modules. We make so many projects and web pages by bootstrap and html.

- **CSS:**

Definition: It is used for Describe the Gratuity of a depict or the main graphics writing is an extra language like html. It has the core technology of the (www), along with html and JavaScript it is very important. CSS is designed to enable presentation, outcomes and content segmentation, including layout, colors and fonts. Although we used bootstrap to make and design our web applications, but we needed to use custom CSS to customize the design part for our project and make it easier.

- **Back End**

- **PHP:**

Definition: PHP is a scripted language that now has a big market value and trending high. It accommodates web developers to creating attractive, unique concept that include with the databases. PHP is typically users for different developing web base software applications that we need to study.

- **MySQL Server:**

MySQL Server is the Popular thing that is Open Sources Database Management System in the website making world. MySQL server is one of the best RDBMS for updating web-based software application implementation MySQL is developing, marketing and supporting Swedish company MySQL AB since 1997 This website that use it maybe include Website and web pages that accessible info from the database to their connection.

These page are created in many reasons when we develop our website we need so many extra pages and convert them in a constructive methods. It helps us to make this kind of horrible projects. This is so insane to make a project report such as way. We know php database has to access or store data from the databases for their purpose only.

5.3 Testing Steps

When we test anything we need test dataset and trainee of course here we have to test our system. Testing process is to identification all the defects, all obstacle or all kind of problems in the web application site. First of all we check our files, databases, and our documents then open our projects in sublime text application and runs our codes then it finds no errors and make us to the outputs it gives our desire output. We test several times in our web pages that if there are anything wrong, any bugs and any problem but it has no problem. We tests every time when we have some time. This makes a good successful projects like this.

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 Summary and Discussion

Discussion: The Hospital tracking system is a easy thing to make and we make it quite nicely and easily. It takes time to make it. Hard work and patient need to do this kind of projects. During this projects time we had a tough time that cause it delay our university is off and we can't go to university and do not meet up with team members and we drop out one semester during pandemic. So, if we have some time and discussion we make it best way of it.

Summary:

This project made us a good project management skill. It has been a great experience so far. The whole project work has enrich us following areas:

- a) We have gained a lot of knowledge during this projects. Team working of the online gives us much confident.
- b) Our understanding of database design and working with data gives us huge support.
- c) Scheduling this projects shows us how to deal with time management.
- d) Sense of this many thing we learnt many thing with all of you.
- e) Initially, there were problem with this project title and name and theme but our team leader done it very smartly.

This project really helps us to do so many projects further. We gain so many experiences during this project. We have a vast knowledge about our sector now we can implement others project also. Finally if it works we are faithful and grateful to all.

6.2 Scope for Further Update

The Scope of the project mean normally expecting the result of something. Scope is same like the motivation and objectives. But there some more special in this case. Scope is really expecting, as we take our system. As our project also a computerized system called Blood Donation Information System. This system can be used in the hospitals, blood donation camps,

or any other important public place, and etc.

This System will be more use full for the important medical places, because if someone need information immediately, the system will help to identify the hospital, and it will be able to find hospitals. So it will be make a quick communication with doctors.

6.3 Brief Description

In this project we do so many things all about hospital related. In the medical sector there are so many things to develop. We need to know our limitations, liabilities and responsibilities. We started our journey by collecting all information medical related then research it analysis by our mind. There are so many websites, applications and many more in Medical sector. We differentiate our project with them. Our unique idea and implementation is better result then other. We implement many new strategy to find best outcome. The hospitals lists in different cities and Ambulance live tracking service with google maps add our projects new destination. This is what the entire project looks very different from others.

People view of thoughts about our project are very positive. They give us positive feedback and that inspire us to continue our mission. Our understanding about in this project is so much good that we just complete a project and it sounds good.

6.4 limitations

At present it is available for some limited zone not each and every rural areas.

Problem to how many user access at a time available in list.

Everyone must need registration to enter the website but some time in emergency many people need urgent help this time they feel some problem I think this is one kind of limitation.

Difficulty in identifying which hospital is good for them.

In future we must overcome this drawback by using modern technologies and continue our update.


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Hospital Tracking

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