A WEB-BASED INFORMATION SYSTEM FOR FIRST AID

BY

Nur-E-Akter Jannaty

ID: 142-15-3612

AND

Tafsina Tasmim Chowdhury

ID: 142-15-3538

This Report Presented in Partial Fulfillment of the Requirements for the Degree of Bachelor of Science in Computer Science and Engineering

Supervised By

Nazmun Nessa Moon

Assistant Professor

Department of CSE

Daffodil International University

DAFFODIL INTERNATIONAL UNIVERSITY

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APPROVAL

This Project titled **"A Web-Based Information System for First Aid**" submitted by **Nur-E-Akter Jannaty** and **Tafsina Tasmim Chowdhury** to the Department of Computer Science and Engineering, Daffodil International University. We has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering (B.Sc) and approved as to its style and contents.

BOARD OF EXAMINERS

_____

Dr. Syed Akhter Hossain **Chairman**

Professor and Head

Department of CSE

Faculty of Science & Information Technology

Daffodil International University

_____

(Name) **Internal Examiner**

Designation

Department of CSE

Faculty of Science & Information Technology

Daffodil International University

_____

(Name) **External Examiner**

Designation

Department of -------

Dhaka University

DECLARATION

We hereby declare that, this project is under the supervision of **Nazmun Nessa Moon, Assistant Professor Department of CSE** Daffodil International University. We also declare that neither this project nor any part of this project submits elsewhere for award of any degree or diploma.

Supervised by:

Nazmun Nessa Moon
Assistant Professor
Department of CSE
Daffodil International University

Co-supervised by:

Dr.Fernaz Narin Nur
Assistant Professor
Department of CSE
Daffodil International University

Submitted by:

Nur-E-Akter Jannaty
ID: 142-15-3612
Department of CSE
Daffodil International University

Tafsina Tasmim Chowdhury
ID: 142-15-3538
Department of CSE
Daffodil International University

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

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ABSTRACT

This project "A **Web-based Information System for First Aid**" is first aid emergency system that will hold online. This is a responsive system. For this reason, it can support all the device like mobile, desktop, laptop etc. This project can save the time of a public. Using this project public can ask live question any problem. The main admin can access all system. Admin can see all the comments, which given by the user. The user can ask the question for every treatment. When the user selects search option then he/she can start ask question. The basis of the project is save life that means give basic life support, measure life threatening situation also give basic and essential treatment of injuries that prevent the condition from becoming worse. Therefore, we think it become more comfortable for every user.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

Now a day's information ensures a technology, which appropriate, adaptable and user - friendly system. Online First aid is a website. This software is for the automation of emergency care system provides facilities as health education and consulting doctors on various diseases. Its purpose is to provide treatment facility fulfilling all the requirements for everyone in this system anyone can primary treatment easily in this site. In this project, admin can control all the section. User can make question for any problem. It will give the treatment. Online First aid system is very important for every hospitalist Institute. It is also a communication system and it is developing the way of living. Any Institute or training center can be using it to develop their strategy for health management. It is so important for new technology.

1.2 Motivation of work

First, we choose this project because recently we read a statistics which says.13.5percentage of cardiac arrest patients given first aid and 90.2% of them made recovery. We often can see people who are suffering a lot for a small diseases also they don't have first aid training, essential doctor number, food value and antibiotic knowledge and have to carry all health report. So, why not make a system that will solve our entire problem.

1.3 Objectives of the software

- To get first aid easily by a simple search.
- To ask a doctor about their problem.
- To answer all asked problem by doctor.
- To provide reliable, latest and helpful health information to all level of user.
- To prevent further injury.
- To react to a given emergency correctly.
- To learn to demonstrate the simple life saving techniques.

1.4 Expected Outcome

Practical outcomes online first aid systems are essential to learn the practical skills needed to provide potentially life-gain the confidence to saving first aid. It is design to teach vital knowledge and skills for saving lives and minimizing the severity of injury or sudden illness. You must assemble a first aid kit. Identify the most important action you can take in a life-threatening emergency. The systems will also ensure that the resources available to a given health system for emergency response are used more effectively .finally the project will also aim to provide a tool that helps emergency responders act faster and wiser to save more life.

1.5 Report Layout

Chapter 1: Introduction

In this chapter, we have discussed about the motivation, objectives and the expected outcome of the project. Later follow by the report layout.

Chapter 2: Background

We discuss about the background circumstances of our project. We also talk about the related work, comparison to other candidate systems, the scope of the problem and challenges of the project.

Chapter 3: Requirement Specification

This chapter is all about the requirements like business process modeling, the requirement collection and analysis, the use case model of the project and their description, the logical relational database model and the design requirements.

Chapter 4: Design Specification

In this chapter, all the designs of the project. Front-end design, back-end design interaction design, UX, and the implementation requirements.

Chapter 5: Implementation and Testing

This chapter contains the implementation of database, front-end designs, interactions and the test results of the project.

Chapter 6: Conclusion and Future Scope

We discussed about the conclusion and the scope for further developments, which pretty much derive about the project.

CHAPTER 2

BACKGROUND

2.1 Introduction

We designed interactive software, which operates in lots of devices over internet. In our application, medical therapy and mass community interconnection will enhance and promoted. They can shake a hand with each other and become ancillary for each other. For enriching consciousness about medical health need and medical system in current situation, .it is inevitable to collaborate first aid training and population. This platform will also reduce the knowledge gap between sickness and cured .and they will continuously invoking people about first aid update. 82% of our total population who hadn't a clue what to do if any emergency happened and wouldn't be able to save .

2.2 Related Work

These days, there are many who are interested working on the field of health. The aims to support people and develop medical field. There are many health related websites in our country. but unfortunately they don't focus on first aid or you don't find a good source of information or a individual complete website of first aid .that will kill your valuable time and energy . Therefore, that is why we become more interested for doing this. Here we have charted a few indexed websites those we have obtained after long inquiring.

1. FIRSTAID BANGLADESH [1]

2. MINI FIRST AID [2]

3. FIRST AID UK [3]

4. BRITISH RED CROSS [4]

5. MAYO CLINIQ

6. BETTER HEALTH

7. MEDLIN PLUS

2.2.1 FIRST AID BANGLADESH

Emergency treatment Bangladesh expects to enable individuals to get prompt medical aid at home, work to place or open social occasion to ensure lives for additionally hurt. At introduction, Bangladesh has in excess of 160 million populations and because of lack of present day hardware and gifted individuals, the vast majority of the natives do not get convenient treatment, which cause sudden demise frequently. Indeed, even it sets aside enough opportunity to land into a closest healing center or facility because of congested road, which makes pointless deferral of getting quick treatment that is shows in figure 2.1.

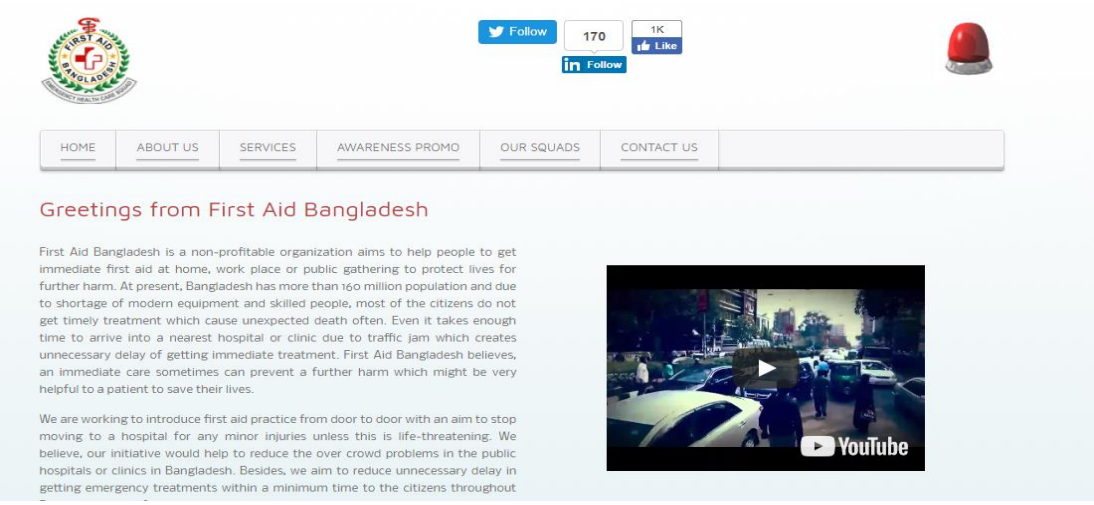

Figure 2.2: First aid of Bangladesh

2.2.2 MINI FIRST AID

Mini first aid offer quality baby & child first aid classes to parents and cares. Their multi award winning classes will deliver in a relaxed and comfortable style and give you confidence to know what actions to take if faced with a medical emergency [2]. The following figure 2.3 show that.

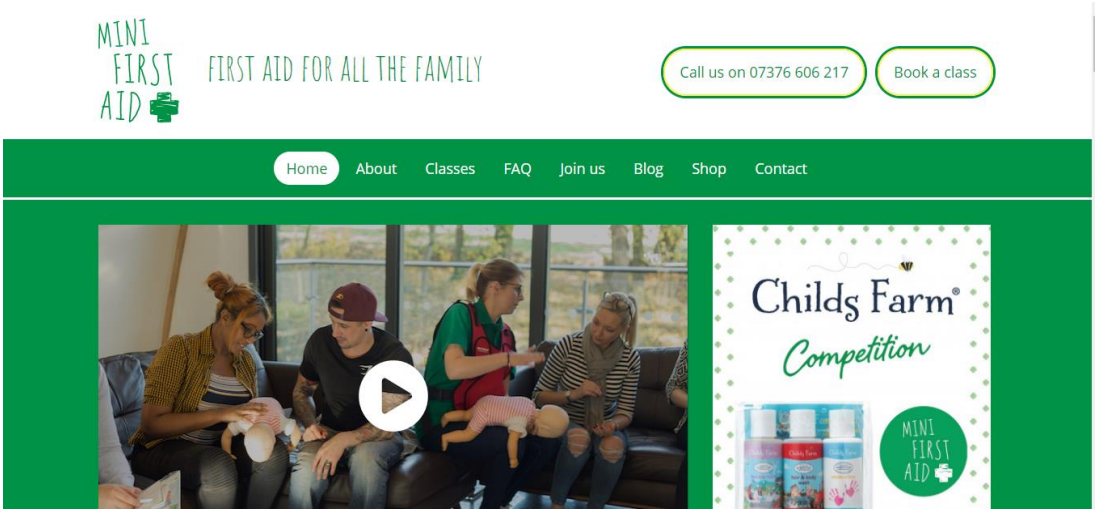

Figure 2.4: Mini First aid

2.2.3. FIRST AID United Kingdom

This website offer online training, courses, and volunteers. Supply first aid kit and equipment. However, it is not free [3]. Figure 2.5 shows the first aid united kingdom.

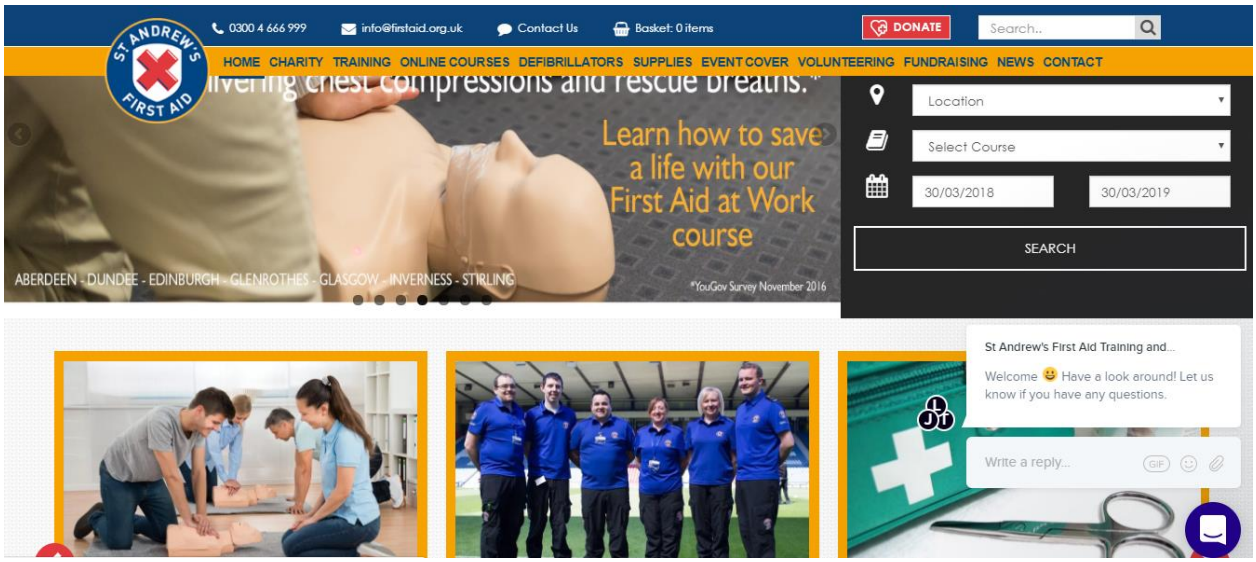

Figure 2.6: First aid united kingdom

2.2.4. British Red Cross

They also do the same thing. Their work is same like first aid UK. They offer online training, courses, and volunteers. Supply first aid kit and equipment. However, it is not free. In addition, they help refugee [4]. Here in figure 2.7 show the British Red Cross.

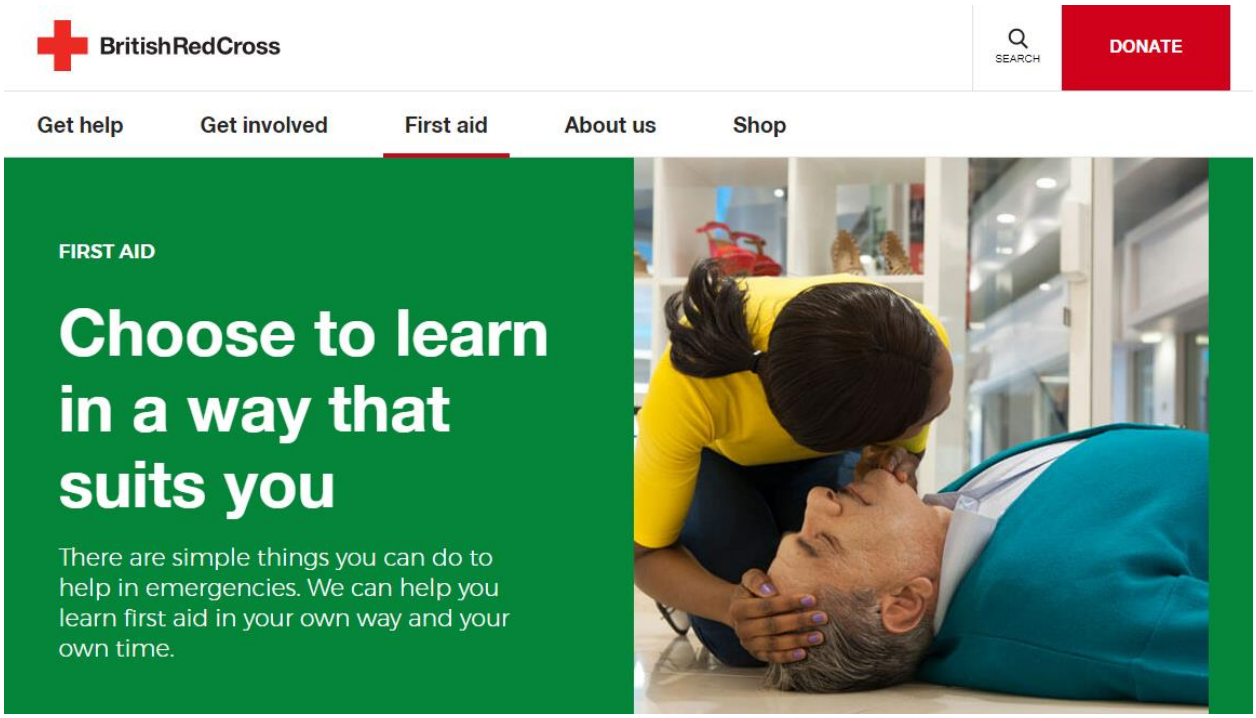

Figure 2.8: British Red Cross

2.3 Comparative Studies

When we saw online first aid system in website then we decide to make this. After that, we started to learn about online first aid. After some days we realized every online first aid project are similar. However, we think that we will make this project for doctor, public, patient and private institutes. To make this project we study about online health system, online clinic system and last online first aid in php [1]. In our project we use to user portal, doctor portal, admin portal. In user, portal user can free registration. They can login individually. Admin can update profile picture, Doctor Answer question for patient and admin can control whole system. Therefore, we think it is a complete project for online first aid system. It will be helpful for any patient. Here in table 2.1 show that.

Table 2.1: Comparison among current competition of First aid emergency

Competitors	Can able to provide any User search option?	Can be able search by skillet of the user?	Can give any feature of appointment system?
Web Portal	Yes	Most of those are not able	Most of those are not providing this feature
Mobile app	Yes	Rare	Most of those are not providing this feature
Social Media	No	No	Yes

2.4 Scope of the Problem

- It is an open platform for anyone can interact easily
- Current health problem easily can solve by this and ask doctor question easily.
- People can easily collect information for emergency or crisis.
- Anyone can find solution as his or her knowledge skills.
- Get doctors valuable advice.

2.5 Challenges

Before two years ago, we learn about this project. Then we planned to create this. To create this in the beginning we planned to learn related language such as CSS, HTML, BOOTSTRAP, JAVASCRIPT and PHP. To create this we face different kind of challenges.

- Currently there have no such kind of web application.
- Back ground image setting.
- Search option.
- Connect doctor with patient physically.
- Currently there have no such kind of web application.

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Introduction

Necessities can be a long and tiring procedure amid which numerous sensitive mental abilities are included. Substantial frameworks may go up against examiners with hundreds or thousands of framework prerequisites. New frameworks change the earth and connections between individuals, so it is imperative to recognize every one of the partners, consider every one of their needs and guarantee they comprehend the ramifications of the new frameworks. Investigators can utilize a few methods to evoke the necessities from the client. These may incorporate the advancement of situations, the distinguishing proof of utilization cases, the utilization of work environment perception and making necessities records. Prototyping utilizes to build up a case framework that can exhibit to partners. Where vital, the expert will utilize a mix of these strategies to build up the correct necessities of the partners, so a framework that meets the business needs to deliver.

3.2 Business Process Modeling

Business process models play a central role in describing, analyzing, improving, implementing, and monitoring business processes. They can serve as communication medium for professionals with different background and expertise, ranging from business administration, quality management and organizational development to process improvement, systems architectures and software development. The aim of this is to provide a common understanding and a common language to improve the communication between these professionals during all phases of business process management of projects. This can introduces concepts of business process modeling using the Business Process Model and Notation industry standard. Participants will learn the elements of process models and their precise meaning [5]. Here figure 3.1 shows that-

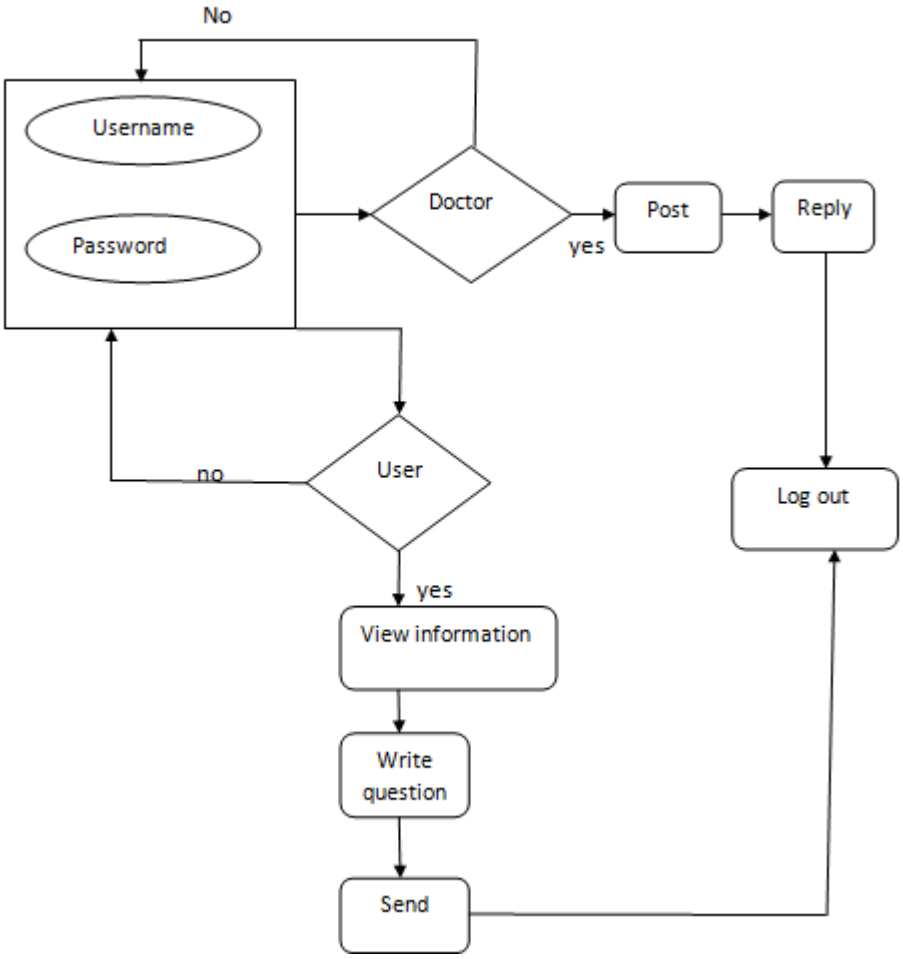

Figure 3.1: Data Flow Diagram of the propose system

3.2.1 Waterfall Model

The Waterfall model is the first process model in which we can see the linier sequential life cycle, which shown in figure 3.1.Sequential software development process. Consider the phase of requirement gathering, design & development, testing and implementation. Here figure3.2 shows that waterfall model.

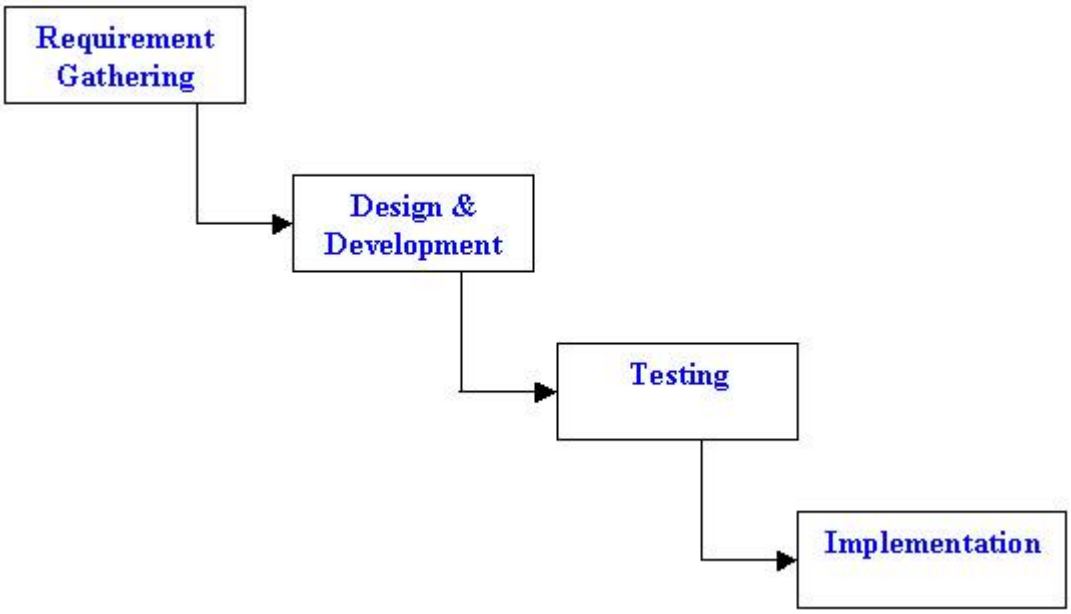

Figure 3.2: Waterfall Model of the propose system

3.3 Requirement Collection and Analysis

Requirement collection and analysis is one of the primary conditions of application development. For deployment, there are two types of requirements, one is the functional requirement and the other is non-functional requirement. Functional requirements are those activities that are the application software can perform. On the other hand, non-functional requirements define the personality of an application, as if the application is how much efficient, performance issue of the application and many more [6].

Functional Requirement

From the point of view of our system, it should have many functional requirements like, a registration section, a login section where only authenticate person can access, a dashboard for maintaining doctor profile. Dashboard also contains more other portion like, create resume, add basic information, view question etc. By ask question user can have option to ask a question and, admin can set option whether anyone can access or not.

Non-functional Requirement

Non-functional requirements are help to being more efficient; optimize performance, memory consuming, smoother operation and load on quickly as possible to our application. Application UI should be user friendly and gorgeous for excellent user experience.

3.4 Use Case Modeling and Description

Utilize case aren`t pretty much graphs. In the event that we are arranging advancement of a task or complex framework, it`s vital to get a flying creatures eye perspective of the procedure. Utilize case depictions list the segments of our undertaking slowly. The student can the all data without much of a stretch locate on the undertaking. Therefore, our group cans overview the domain ahead. The model in the figure 3.3 shows that-

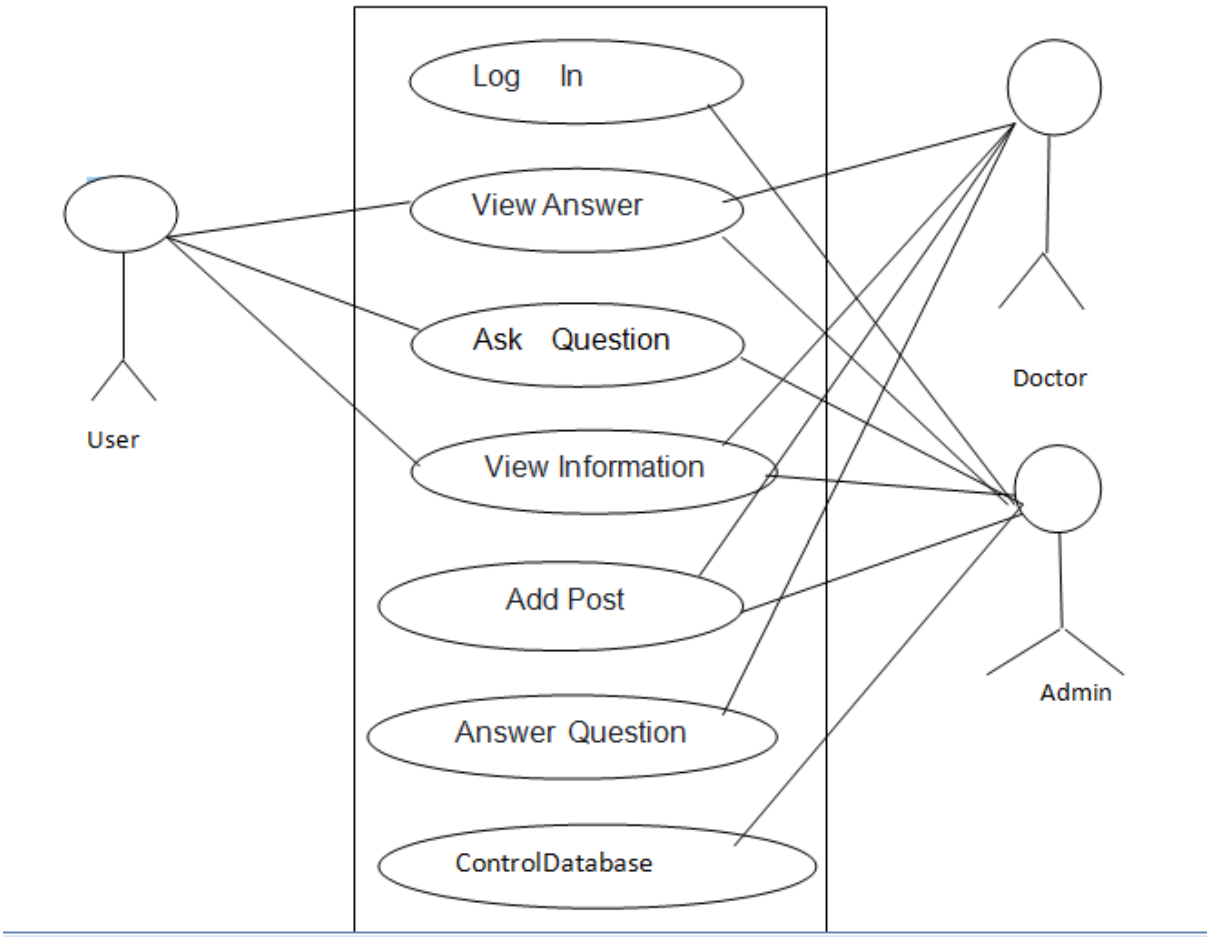

Figure 3.3: Use case diagram

Use Case Description

A use case is m methodology used in system analysis to identify, clarify and organize system requirement [7]. The use case diagram describes in the table 3.1 to table 3.4.

Table 3.1 Use case description of Login

Use Case	Login
Primary Actor	Admin
Secondary Actor	Null
Pre-Condition	Login
Scenario	Valid Username Valid password
Post Condition	Login Successful or failed

Table 3.2Use case description of ask question

Use Case	Ask question
Primary Actor	User, Doctor
Secondary Actor	Null
Pre-Condition	Login
Scenario	Additional information
Post Condition	Waiting for reply View notification board

Table 3.3 Use case description of view information

Use Case	View information
Primary Actor	User, Admin, Doctor
Secondary Actor	Null
Pre-Condition	Login
Scenario	Additional personal information
Post Condition	Information displayed successfully

Table 3.4 Use case description of Control Database

Use Case	Control database
Primary Actor	Admin
Secondary Actor	Null
Pre-Condition	View information
Scenario	Additional personal information
Post Condition	Check in Database

3.5 Logical Data Model

Our project logical data model has relational table named admin, doctor, user and ask question .The total relational model has showed in the following figure 3.4 .

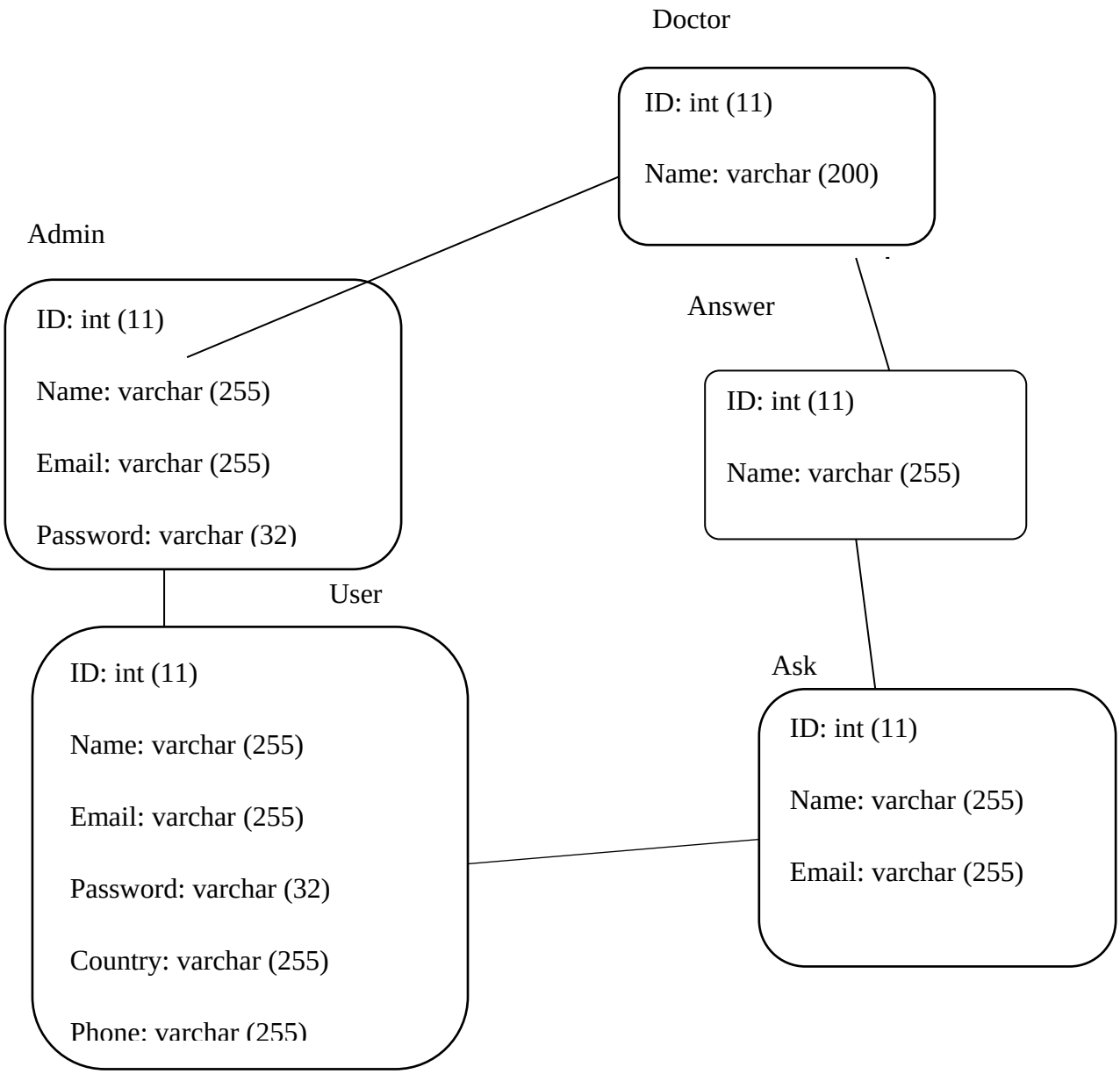

Figure 3.4: Relational Data Model

3.6 Design Requirements

Bootstrap

Bootstrap is a free and open-source front-end web framework for designing websites and web applications. It contains HTML- and CSS-based design templates for typography, forms, buttons, navigation and other interface components, as well as optional JavaScript extensions. Bootstrap is a framework, because it provides structure instead of simply being a library of predefined elements and styles. Bootstrap is compatible with the latest versions of the Google Chrome, Firefox, Internet Explorer, Opera, and Safari browsers, although some of these browsers do not support on all platforms [8].

JQuery

JQuery is a fast and concise JavaScript Library created by John Resign in 2006 with nice motto - Write less, do more. jQuery simplifies HTML document traversing, event handling, animating, and Ajax interactions for rapid web development. JQuery is a JavaScript toolkit designed to simplify various tasks by writing less code. Here is the list of important core features supported by jQuery [9].

- DOM manipulation
- Event handling
- AJAXAnimations
- Light weight
- Cross Browser Support
- Latest technology PHP

PHP

PHP is a server-side scripting language designed primarily for web development but also used as a general-purpose programming language. PHP originally stood for Personal Home Page, but it now stands for the recursive acronym PHP: Hypertext Preprocessor. PHP code will embed into HTML code, or it can be used nomination with various web template systems, web content management Systems and web frameworks. A PHP interpreter implements as a module in the web server or as a Common Gateway Interface (CGI) executable usually processes PHP code. The web server combines the results of the interpreted and executed PHP code, which may be any type of data, including images, with the generated web page. The best things in using PHP are that it is extremely simple for

newcomer, but offers many advanced features for a professional programmer. Do not be afraid reading the long list of PHP's features [10].

PhpMyAdmin

PhpMyAdmin is a free and open source tool written in PHP intended to handle the administration of MySQL or MariaDB with the use of a web browser. It can perform various tasks such as creating, modifying or deleting databases, tables, fields or rows; executing SQL statements; or managing users and permissions.

- Intuitive web interface
- Support for most MySQL features.
- Browse and drop databases, tables, views, fields and indexes.
- Create copy, drop, rename and alter databases, tables, fields and indexes.
- Maintenances server, databases and tables, proposal on server configuration
- Execute, edit and bookmark any SQL-statement, even batch-queries.
- Manage MySQL user accounts and privileges.
- Manage stored procedures and triggers.
- Import data from CSV and SQL.
- Export data to various formats: CSV, SQL, XML, PDF, ISO/IEC 26300 -Open Document Text and Spreadsheet, Word, LATEX and others.
- Administer multiple servers.

CHAPTER 4

DESIGN SPECIFICATION

4.1 Front-end Design

Front-end design is the view part of software. The front-end refers as a client-side development by this way. It is very important to develop a simple and easily understanding front-end or GUI for the user of the application. Therefore, we tried to keep our design as simple as possible and easily accessible for the user, but the development task was not so easy. We attach our Application front-end design in bellow.

4.1.1 My Home page

The homepage is the main phage of our website. It has beautiful interface and easy to navigate. In the figure 4.1 shows the home page where have home, about, doctor portal, Q & A, ask a question and then have a search button.

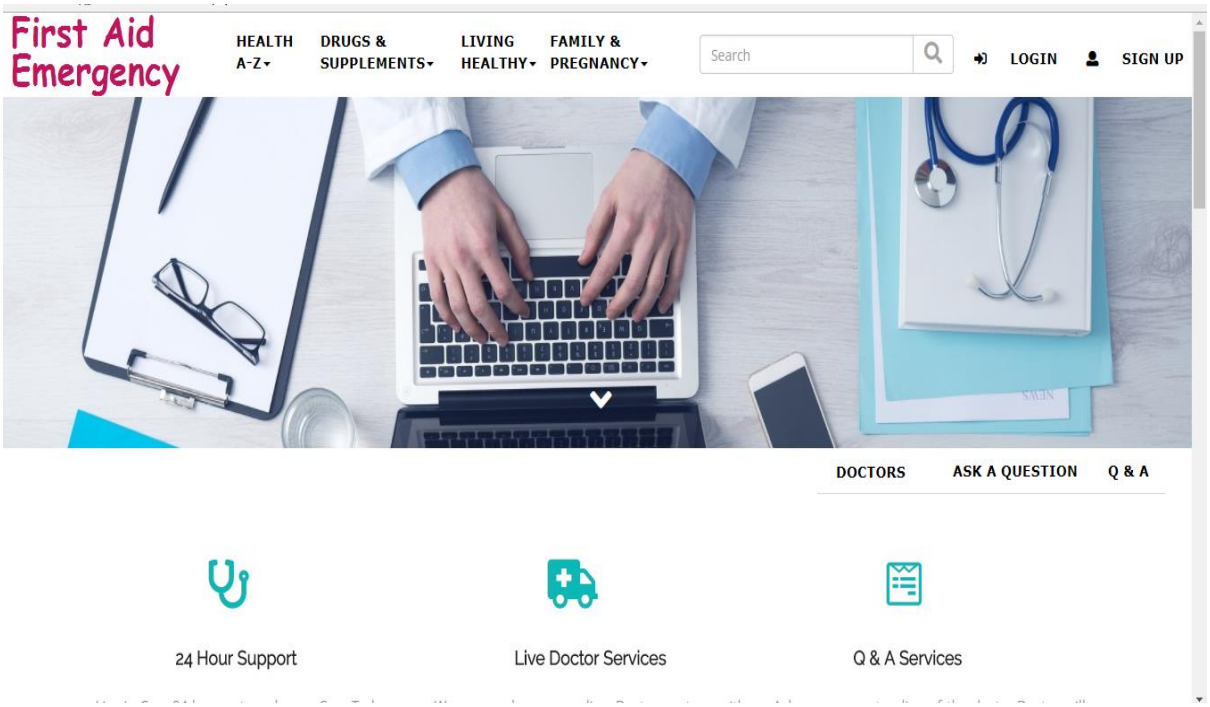

Figure 4.1: Home Page

4.1.2 User asking Question

In our website user can see all post ,all previous question ,all information and also ask question .User can easily ask question and get question solve immediately. In the figure 4.2 shows the user-asking question.

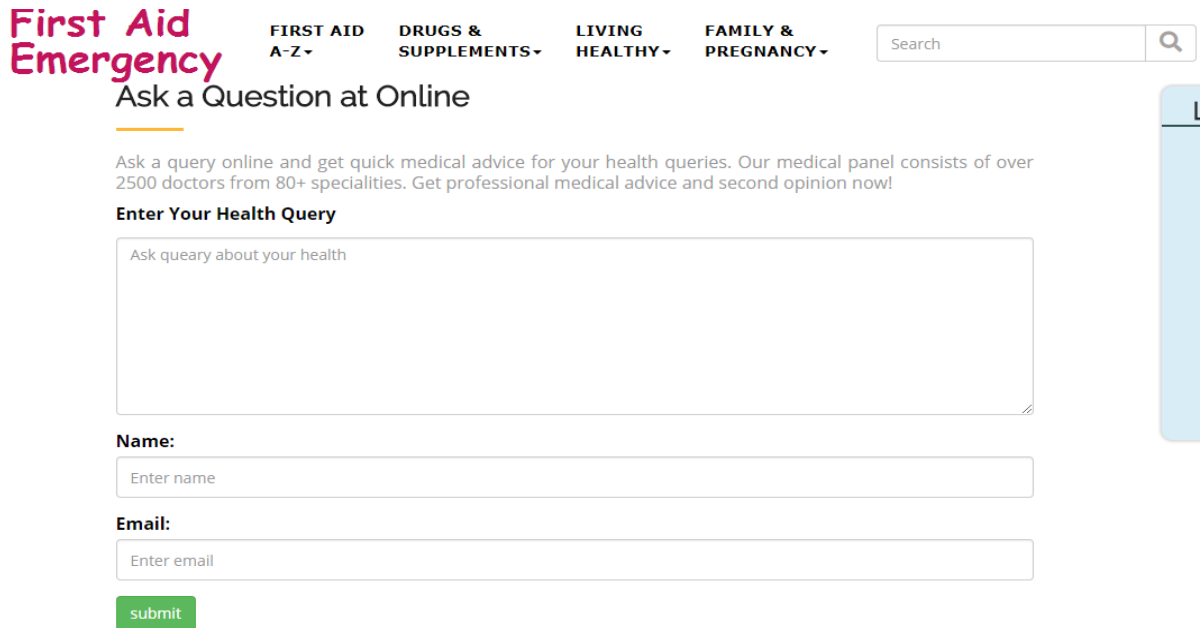

Figure 4.2: User asking Question

4.1.3 Doctor Portal

If the Doctor log in then he can see question. There have three options one is add problem description. Here the doctor can add reply then the doctor looking the question. Then he can answer the question when added then he can logout. In the figure 4.3 shows the doctor portal-

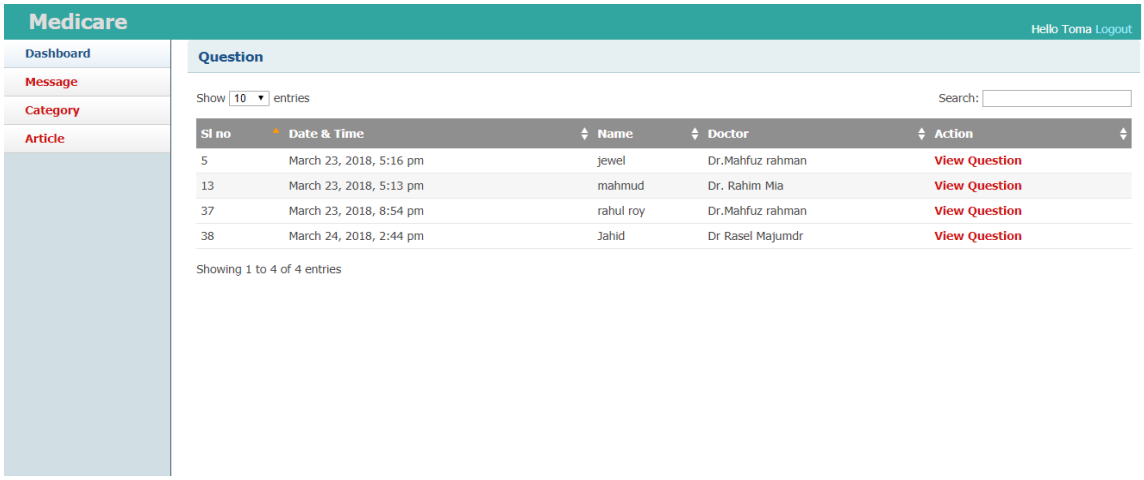

Figure 4.3 Doctor Portal

4.1.4 Admin Portal

The admin can log in. and he have two options one is show all information it can see the all comments. Another is signup area. Here the admin can sign up for any doctor. In the figure 4.4 shows the admin portal.

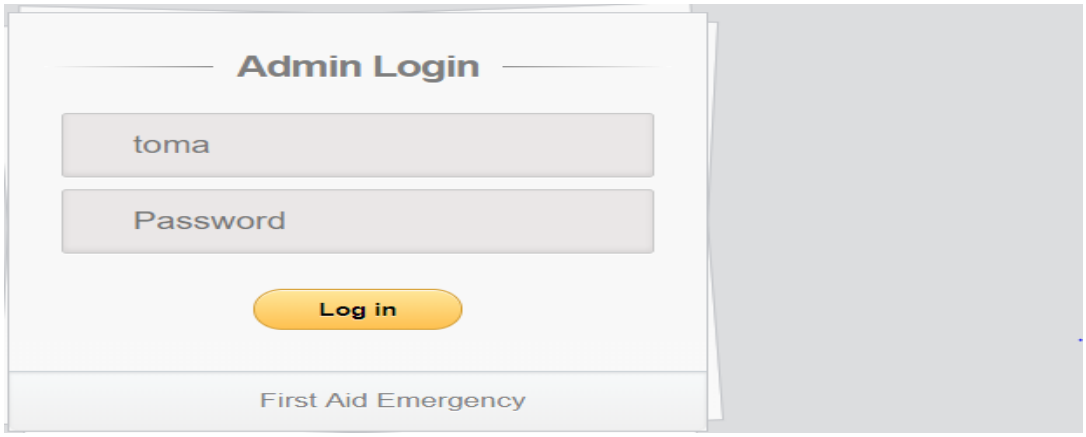

Figure 4.4 Admin Portal

4.1.5 Check Question

Here admin and doctor can see all the question .and then doctor can answer user s question. In the figure 4.5 shows the check question.

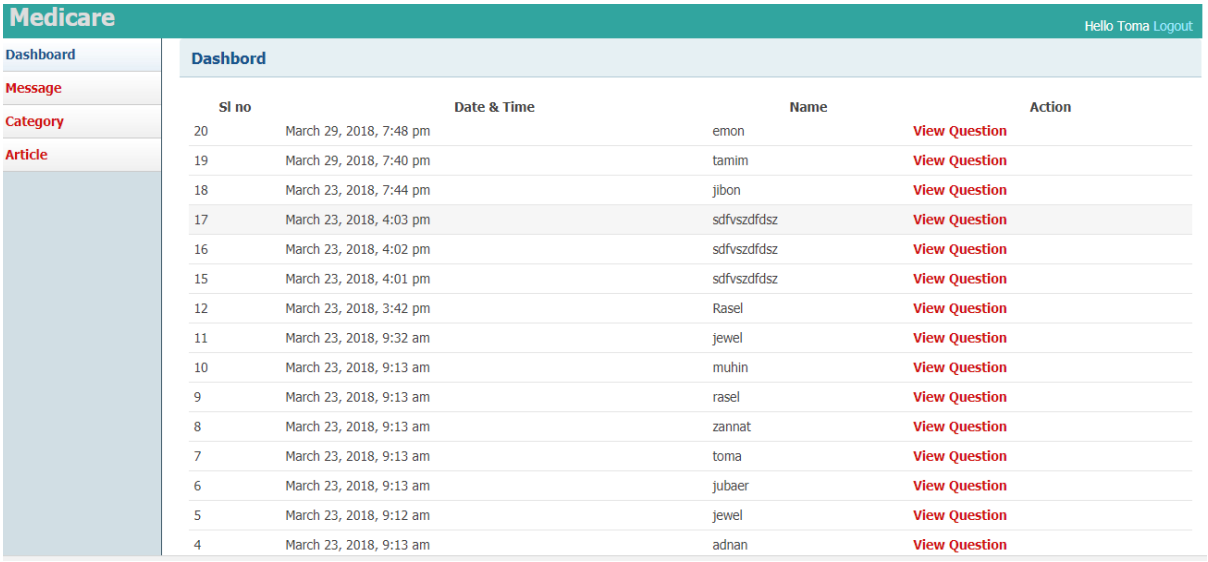

Figure 4.5: Check question page

4.1.6 Saw Doctor List

Only admin can see this doctor list. In addition, he can edit or delete. In the figure 4.6 shows the saw doctor list.

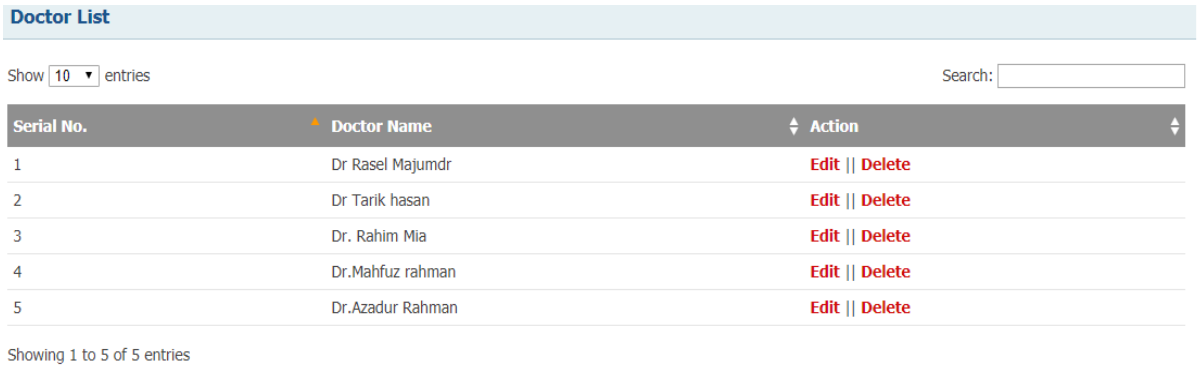

Figure 4.6: Doctor List page

4.1.7 Add New Doctor

Only admin can add new doctor in this software. Have to fill name, specialist, email, phone, image, password etc. In the figure 4.7 shows adding new doctor.

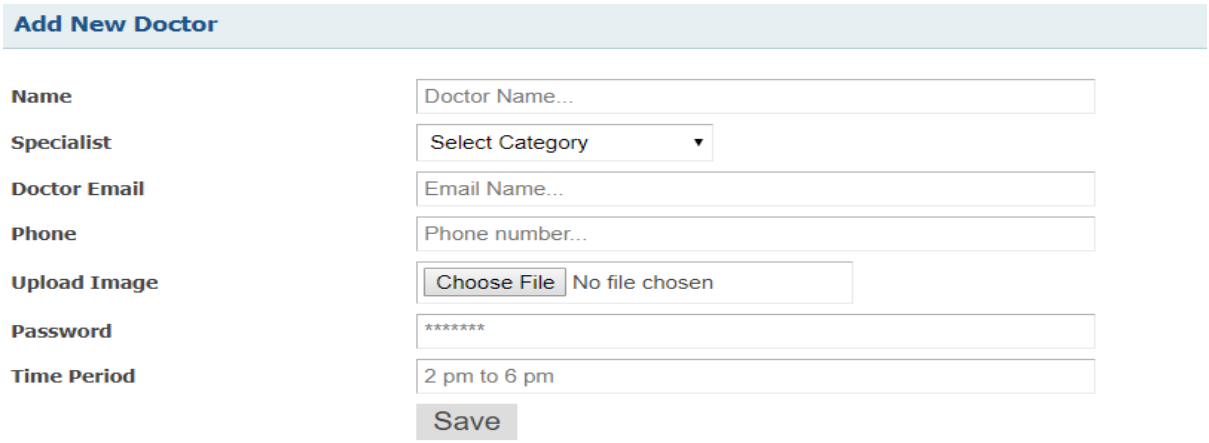

Figure 4.7: Add New Doctor

4.2 Interaction Design and UX

Interaction design focuses on creating engaging interfaces with well thought out behaviors. Understanding how users and technology communicate with each other is fundamental to this field. With this understanding, you can anticipate how someone might interact with the system, fix problems early, as well as invent new ways of doing things. In this project, admin can control whole system. Public is user. In this project public, make question for any wise.

4.3 Implementation Requirements

Online First aid emergency is a website. To implement this project, we are use software for online treatment system and use different kind of languages as like as HTML, CSS, BOOTSTRAP, JAVASCRIPTS, PHP and MySQL. In this project html, CSS, BOOTSTRAP, JAVASCRIPTS for font end and PHP and MySQL use to implementation design. To implement design functionally system will keep all details of user, doctor and admin system. Nonfunctional requirement defines the needs in terms of performance, logical database requirement design contains, and reliability availability, security, maintainability and portability to implementation design [11].

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Introduction

There are a large number of database management systems currently available some commercial Implementation is the stage where the theoretical design is turn into a working system. The most crucial stage in achieve a new successful system and in giving confidence on the new system for the users that it will work efficiently and effectively. The system can be implementing only after thorough testing is doing and if it finds to work according to the specification. The more complex the system being implemented, the more involve will be the systems analysis and design effort required just for implementation [12].

5.2 Implementation of Database

There are a large number of database management systems currently available, some commercial and some free. Some of them are oracle, Microsoft Access, MYSQL and SQL. These database systems are powerful, feature-rich software, capable of organizing and searching millions of records at very high speeds

5.2.1 Database Table

5.2.1.1 Database for Question

In the figure5.1, show the question database. If the user creates question, then it can save here and all doctor when they are start to give then all question shown from this table

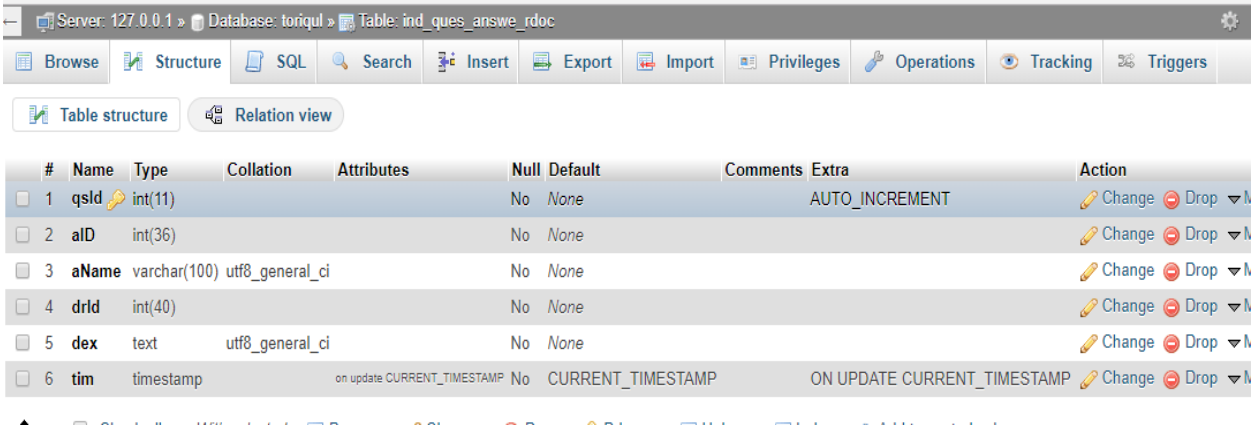

Figure 5.1: Database for question.

5.2.1.2Database for Doctor

In the figure 5.2shows doctor database table. There has some attribute. Here have doctor id, login.

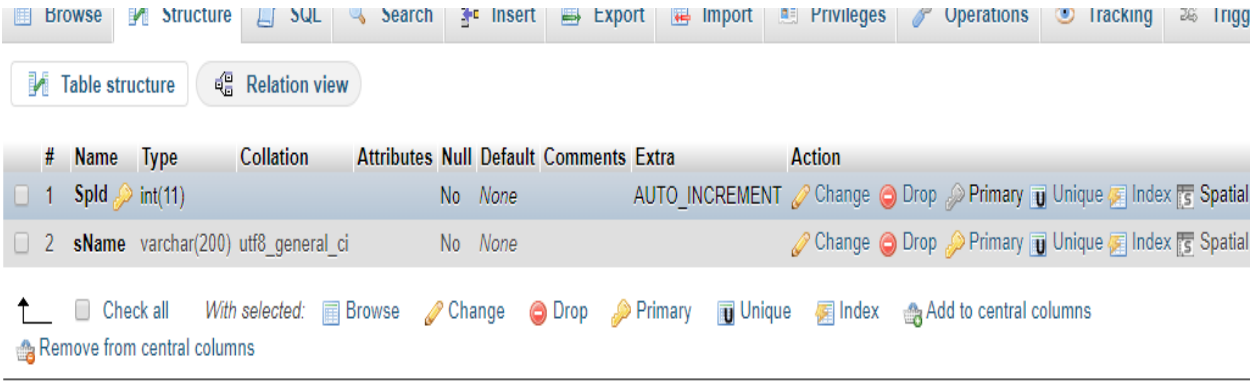

Figure 5.2: Database for Doctor

5.2.1.3 Database for search

It will show the relevant result from the information. In the figure 5.3 shows the Database for search.

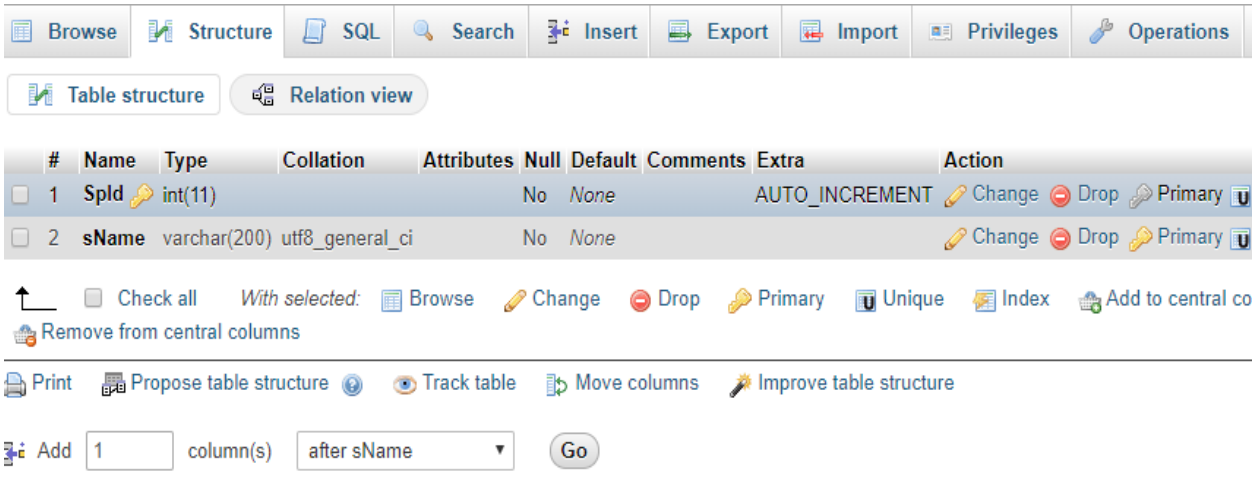

Figure 5.3: Database for search

5.2.1.4 Database for Admin

Here all activities related to maintaining a successful database environment. In the figure 5.4 shows the Database for admin.

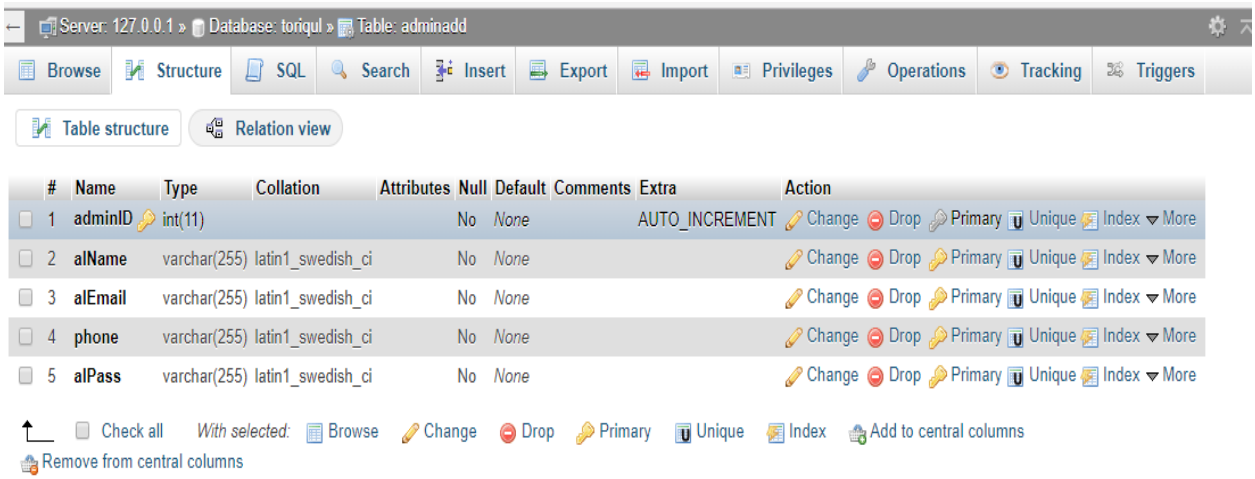

Figure 5.4: Database for Admin

5.3 Implementation of Front-end Design

Front-end designs the first impression of a user. We know that people is not easily forget the first impression. Therefore, we have tried our best to make the front-end design simple, attractive and user friendly. but the most challenging portion is ,to make our application, device independent, because there are many type of devices like smart mobile,tablets,desktop,4k desktop etc. Another problem is each of them come in different size. We make our web application responsive so that users visiting from different device will face no difficulties to see our application and have a cool user experience. We make interface relative and standard with the help of HTML, CSS, and JavaScript and jQuery technologies.

There are some factors of implementing the front -end design are given below

- There will be three types of users like admin, doctor and user.
- Every type of doctor must be register by filling up the required information fields.

5.4 Implementation of Interactions

There are three part of the project. This is admin, doctor and user. In this project admin can control whole system. Admin, doctor and public are user. In this project user, make question for doctor in problem wise. User can see doctor details and can choose doctor. User can ask question. After finish user can see the result and can review the wrong right answer. I think in this project admin, doctors and user will connect with other.

5.5 Test Implementation

Our goal is to design a series of test case that have a high likelihood of finding errors. To uncover the error software techniques are used. These techniques provide systematic guidance for designing. In the table 5.1 shows the test implementation.

Table 5.1: Test Implementation

Test Case	Test Input	Expected Output	Actual Output	View	Date
1. Display the application pages	Tested browsers- ➔Firefox ➔Google Chrome ➔Opera ➔Safari	To display the pages successfully.	Display the pages successfully.	Successful	22-03-18
2. Username	Blank or incorrect username	To warn that username or correct username must enter	Showed the warning.	Successful	25-03-18
3. Password	Blank or incorrect password.	To warn that password or correct.	Showed the warning.	Successful	27-03-18

4.Test Case	Test Input	Expected Output	Actual Output	View	Date
5. Home	Click on the Home button.	To show the homepage.	Show the homepage of first aid successfully.	Successful	30-03-18
6 Admin Portal	Log into the admin dashboard	To see the pending request	Showed the user pending request	Successful	30-03-18
7.Doctor Portal	Click on the doctor portal button.	To create the question	Created question successfully.	Successful	30-03-18
8.Test Case	Test Input	Expected Output	Actual Output	View	Date
9.How To use	Click on the how to use the web application on menu	To see the Instruction	A pop-up window opens and shows some instruction	Successful	30-03-18
10. logout	Click on The Logout Button	To logout from that account	Logged out Successfully	Successful	30-03-18

5.6 Testing Result and Report

In this website when click doctor portal we can see login page. If doctor uses wrong password or user name, he cannot login. If doctor use correct user name and password then he can login. Only doctor can login in doctor portal. After login user can make question problem wise for doctor. Click in user portal. If user use right user name and password, he/she can login in user portal. After that user can ask question by. User can see search option. Then he/she can see particular problem, information and solution. Must need to select search and select. Then he /she get question. He/she can also see the recent update.

CHAPTER 6

CONCLUTION AND FUTURE SCOPE

6.1 Discussion and Conclusion

In today's digital world, the technology is continuously changing so fast that anyone can do anything at the online examination system. Nowadays every important thing are becoming time trapped, so people are becoming more time consuming that's the reason they searched everything in internet. This web application provides facility to conduct online health

worldwide. Its saves time, as it allows number of people to know the solution as the problem gets over. Be a part of the project, we are really feeling well. The system completes and the features or requirements, which have been remaining, can fulfill with a few time. Through this project, we have learned HTML, CSS, PHP, and MYSQL for the web design and developing. We have also gathered knowledge about the data analysis system. In this project, we not only just complete the project but also from this project, we had to know and learn some important things those will help us in our future and professional life.

6.2 Limitation

Our application has some limitation. We will overcome this limitation in future. Some of the main limitations are-

- We implemented this application through local host; it should have a domain to access the website through the internet.
- Only develop for web application.
- Here Chance of missing a diagnosis.

6.3 Scope for Future Developments

However, I complete my project work but I have some plan for developed this work.

- My application's data needs more storage in future, so we will add this with larger database system such as Oracle Database or Microsoft SQL Server
- Video calling with doctor
- We will add auto reply system.
- We will give an option for the user to request for appointment.
- Online training for first aid.

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APPENDIX

Functional Requirement– functional requirement describe the system functionalities or the services more specifically it tells that what a system should do.

Non-functional Requirement –non-functional requirement defines the system properties, limitation and liabilities, or how the system acts on a certain function.

Data Flow Diagram (DFD)–DFD is the graphical representation of a system, which shows flow of the data gradually, it is more like an overview of the system.

Actor –An actor is a role played by a person, system, or device that has a stake in the successful operation of the system.

Web Server –web server is the method where files that from a web page serves to the client requests, here client and server both uses HTTP (Hypertext transfer Protocol).

XAMPP – XAMPP is a cross platform web of server solution. It's free and open source. The full meaning of XAMPP is X as ideographic meaning of cross platform, A for apache, M for MySQL, P for PHP and last P for Perl.

HTTP – Hyper Text Transfer protocol is a set of rules for transferring files, images, sound, video or any other multimedia files over the World Wide Web or WWW.

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