

DOCTOR AND PATIENT CONSULTING

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

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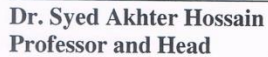
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APPROVAL

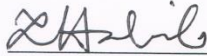
This Project titled “**Doctor and Patient Consulting**”, submitted by Mejbah Uddin Ahmed, ID No: 152-15-5849 and Sabiha Mostafa ,ID No :152-15-6109 also Shahriar Islam Auny, ID :151-15-4991 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory 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 date 02-05-2019 .

BOARD OF EXAMINERS



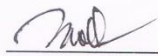
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DECLARATION

We hereby declare that, this project has been done by us under the supervision of Md. Jueal Mia , 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 award of any degree or diploma.

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Finally we thank our parents who always give us inspiration in any situation ,they always stay beside us like as an angel.

ABSTRACT

Doctor and patient consulting is an impartial part in our daily activities. Day by day our dependency to hospital as well as to doctors is increasing. Even we are failed to get experienced doctors and friendly good hospital also we had to suffer when we are failed to get desire blood in time. Our creating DPC will solve these problems within a time. By using this website you will get experienced doctors very easily even you may do communication with that doctor very rapidly. By using DPC you may keep your good health as you have the option by scrolling you may get daily news about health, medicine and doctors. In DPC there is blood donor search option where you will get your blood match donor in a second and you can communicate with that person very easily and rapidly. One can get any important news, daily health news, hospital news, any conscious news by using this website. DPC will stay beside a patient like an angel. A patient has the option to store his/her own information and when he/she will consult another doctor will may show his/her documents to that doctor. DPC will help to get experienced good doctors, cheapest reliable hospital, decrease patients sufferings and one can get desire blood very smartly by connecting DPC. One may acquire knowledge about health, medicine, common disease, primary treatment of any disease by using DOCTOR AND PATIENT CONSULTING WEBSITE. DPC will decrease human sufferings and add a dimension in treatment area.

TABLE OF CONTENTS

CONTENTS	PAGE
Board of Examiners	I
Declaration	II
Acknowledgements	III
Abstract	IV
Table of Contents	V
List of Figures.....	VIII
List of Tables	IX

CHAPTER

CHAPTER 1: INTRODUCTION 10-12

1.1 Introduction	10
1.2 Motivation	10
1.3 Objectives	10
1.4 Expected Outcome	11
1.5 Report Layout	12

CHAPTER 2: BACKGROUND 12-14

2.1 Introduction	12
2.2 Related Work	12
2.3 Comparative Studies	12
2.4 Scope of the Problem	13
2.5 Challenges	14

CHAPTER 3: REQUIREMENT SPECIFICATION 15-17

3.1 Requirement Collection and Analysis	15
3.1.1 Software Requirement	15
3.1.2 Framework, Language, Tools	15
3.1.3 Hardware Requirement	15
3.1.4 Tools	15
3.1.5 Database	16
3.2 Business Process Modeling	16
3.3 Use Case Modeling	17

CHAPTER 4: DESIGN SPECEFICATION	21-32
4.1 Front-end Design	21
4.2 Back-end Design	30
4.3 Interaction Design and UX	30
4.4 Implementation Requirements	32
CHAPTER 5: IMPLEMENTATION AND TESTING	33-34
5.1 Introduction	33
5.2 Implementation of Database	33
5.3 Implementation of Front-end Design	33
5.4 Implementation of Interactions	33
5.5 Test Results and Reports	34
5.5.1 Login Report	34
5.5.2 Registration and verification Report	34
CHAPTER 6: CONCLUSION AND FUTURE SCOPE	35
6.1 Discussion and Conclusion	35
6.2 Scope for Further Developments	35
REFERENCES	36
APPENDIX	36
PLAGARISOM REPORT	37-38

LIST OF FIGURES

FIGURES	PAGE NO
Fig 2.1: Bd health	12
Fig 2.2: Doctor's Bd	12
Fig 2.3: Business process Modeling Diagram	17
Fig 2.4: User can aware from DPC Home page	18
Fig 2.5: Use case Diagram between Doctor and patient	18
Fig 2.6: Use case between Patient and Admin	19
Fig 2.7: Website Home page	22
Fig 2.8: Blood Donor Search	22
Fig 2.9: From search button one can gather question's answer	23
Fig 3.0 : Admin Panel of Management	23
Fig 3.1 : Dashboard	24
Fig 3.2 : Admin panel of Dashboard	24
Fig 3.3 : Doctor registration	25
Fig 3.4 : Necessary news for user	25
Fig 3.5 : Agent login	26
Fig 3.6 : Information through image	26
Fig 3.7 : A list of experienced Doctors	27
Fig 3.8 : People can contact with Blood Donor	27
Fig 3.9 : User Feedback	28
Fig 4.0 : Hospital can post their special activity	28
Fig 4.1 : Testimonial from DPC user	29
Fig 4.2 : User can find important articles	29
Fig 4.3 : User can search blood donor	30
Fig 4.4 : Database Design of Doctor and Patient consulting	30
Fig 4.5 : User can contact with Doctor and Patient consulting admin	31
Fig 4.6 : User can see important news about health and conscious	31

LIST OF TABLES

TABLES	PAGE NO
Table 3.1 :Use case Description	19
Table 3.2 : Use case Description Login	20
Table 5.1 :Registration and Verification Report	24

CHAPTER 1

Introduction

1.1 Introduction

Doctor and Patient Consulting is a web-based application that includes mobile application in cross platform. Doctor and Patient Consulting website works with patients and doctors. This website will decrease human sufferings and increase faith of patients towards hospitals as well as doctors. DPC will introduce good rating doctors, patients can communicate with that doctors. Many human lives drop out only for not to get blood in time but DPC will solve this problems because using DPC one can easily manage desire blood in one's area. In DPC there is a news feed option where one can easily get daily news like what can do human in hot time or winter time and today's weather and so on.

1.2 Motivation

A joyful mind is property for a country, but a joyful mind lives in a healthy body. To maintain a healthy life we need to lead a discipline life. In our daily life we have to suffer many diseases but almost of the time we don't get proper treatment only for lack of experienced doctors and friendly hospital. And many life drop drop out only not to get blood in time. We do this website by this Doctor will be a friend of patients and hospital will be a reliable place for all. It will be very much easy to manage blood and no one has to meet with death for lack of blood. DPC will increase the awareness of general public. Young generation who used to spend one's time by scrolling Facebook home page, he/she will concentrate dpc home page for earning knowledge.

1.3 Objectives

The objectives of this project are

- To make a web platform for reducing the gap between patients and doctors.
- Easier search of blood donor.
- To decrease sufferings to get experienced doctors.

-
- To make easy storing patient information in his/her profile.
 - To increase the public awareness about doctors, hospital and medicine as well as primary treatment of a disease.
 - To build a smart platform where doctor patients and others can communicate .

1.4 Expected Outcome

The expected outcomes of this project are

- People can choose doctors very easily and not the chance to mislead.
- Patient will not to suffer to get doctor serial
- Patients do not need to store hardcopy as prescription or medical reports.
- Doctors can certify a patients through DPC
- General people can come to know about hospital facility and so on by this they will aware of hospital management.
- Patients can easily get desire blood by searching blood.
- DPC website will take patients, doctors and general public in a point .

1.5 Layout of the Report

Chapter one has demonstrated an introduction to the project with its motivation, objectives, and goals.

- Chapter two will have "Overview Background" shows project management phases and project management challenges.
- Chapter three will have Software Requirement.
- Chapter four will have System Analysis.
- Chapter five will have system design and specification.
- Chapter six will have Implementation, and Testing.
- Chapter seven will have conclusion.

CHAPTER 2

Background Overview

2.1 Introduction

Day by day many diseases are increasing but people are not getting well treatment due to experienced doctors and lack of good hospital. Even some good doctors remaining but people unable to reach them in time. We also notice that many life drop out only not get blood in time . Our creating Doctor and patient consulting will help patients to reach doctors to store patients information and to get blood donor and so on.

2.2 Related Works

It's a scientific thinking that hospital and doctors are becoming mandatory part of our daily life. But in this sectors the opportunity of general public is very less and patients have suffer a lot with many reasons. Our aim is to decrease the sufferings but we do not get any website like that. Some website available like icliniq, doctorsbd, bd health solution ,olwel etc . But some limitations reaming and these websites are not user friendly. They are not provide any blood donar searching option or any homepage option to know some common disease solution even there is no option to live chat with that doctors.

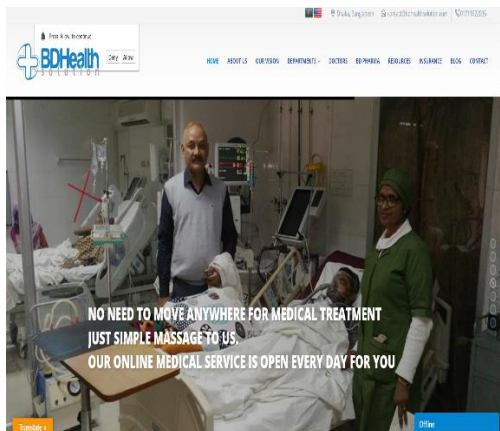


Fig 2.1: BD health (www.bdhealth.com)

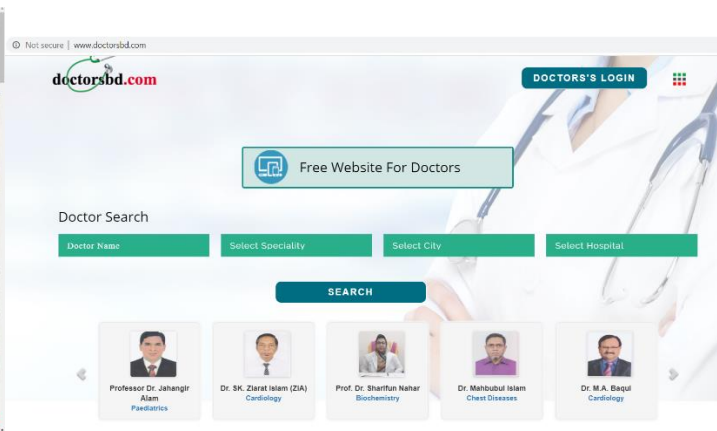


Fig 2.2: Doctor's bd (www.doctorsbd.com)

2.3 Comparative Studies

Bd health solution ,doctors bd,icliniq have almost similar moto as we have but the problems arise that they are not user friendly and even patients are not able to do communication with doctors and manage blood in time.In this website there is no option to know some common disease or fatal disease and lack of many opportunity and for this still patients suffering remaining and so on. There also main problems that patients are unable to store own information's for future need.

Disadvantages of Existing Website :

- a) Unable to take doctors consulting serial or do live chat with doctors.
- b) Missing news feed option where general people can see present disease and how to aware of them.
- c) Patients are failed to store own information.
- d) Patients unable to manage blood in time.
- e) Doctors can not certify a patients through online.
- f) General public can not see hospital features .
- g) Not a single user friendly.
- h) Not perfect or suitable for users.

Advantages of DOCTOR AND PATIENT CONSULTING :

- a) Patients can contact with doctors directly and even take consulting of doctors directly.
- b) Patients can store information for further need.
- c) Patients able to search donor and contact with doctor very smoothly.
- d) Patients can get many impotent knowledge about health,doctors and medicine from using Doctor and Patient Consulting (DPC)
- e) Doctors can certify a patients through online.
- f) Patients can see nearest hospital and their characteristics..

2.4 Scope of the problem

Doctor and Patient Consulting (DPC) will remove patients suffering .Many people who is afraid about doctors ,hospital and medicine ,DPC will remove there afraid.DPC will combine patients,doctors and medicine,hospital in a point by this they can reach each others very smartly and without harassing.

- a) Patients can reach doctors from home which will safe time and cost.
- b) Doctors can certify a patients from his/her home which will increase safety and reliable.

-
- c) In very low cost patients can get blood donor very very easily.
 - d) People who wants to know about a particular things can get from dpc very easily.
 - e) Patients harassing will be stopped.

2.5 Challenges

- Enrolling doctors in this website is the biggest challenge.
- Reaching the honorable patients to get their info is a big challenge.
- Making the app more user friendly is a big challenge.
- Collection of user feedback and taking required actions can be difficult as we may find different types of users

CHAPTER 3

Requirement Specification

3.1 Introduction

Requirement Specification is a report that depicts prerequisites for a product item, program or set of projects. A software requirement Specification means that in future how the whole desire is going to work and that is the very important phase of engineering or we can say that is the demonstration of the whole work.

3.1.1 Software Requirement

To develop Doctor and Patient Consulting (DPC) We have to take the help of some tools and languages and design. Our website maintain some criteria . We will develop a web-based platform and an app in cross platform. We would need HTML5, CSS3 JavaScript, jQuery and Ajax as the front end. MySQL, PHP, OOP, ajax technology as back-end of our project. Here we also need XAMPP as local server. As the code editor we would need sublime text editor.

3.1.2 Framework, Language, and Tools

We used HTML5, CSS3, bootstrap, JavaScript and Ajax as the front end, MySQL server, PHP, jQuery, Ajax as back-end of our project.

We have developed the app in cross platform using Ionic, jQuery, Ajax, PHP, MySQL.

3.1.3 Hardware Requirement

- Processor –Core-i 3
- Hard Disk – 80GB
- Memory /Space– 2GB RAM

3.1.4 Tools

A product improvement instrument is a program or applications that is utilized to configuration, troubleshoot, keep up projects and applications. The term applies to straightforward projects, which can be associated circumstantially to play out an assignment, much as one may utilize different control devices settle a physical question.

To improve this website, we used the following tools:

- Php storm.
- Brackets
- MySQL database.
- Xampp server.
- Browser.

3.1.5 Database

A database is an orchestrated gathering of information. The information are ordinarily arranged to outline basic characters of reality in a way that keeps up means requesting this data. The subsequent database is attempting to enhance this site is MySQL. MySQL is a social database administration framework. Choosing a database is indispensable and more critical than some other things for building up a task. We like MySQL in light of the fact that it is the most appropriate database for us for a few reasons. Those reasons will be given underneath. MySQL database is smart about sparing any information that we need. It will let you rapidly store and recover data and numerous site guests can rehearse it at one time.

- MySQL is a database server.
- It is ideal for both small and large application.
- MySQL Supports standard SQL.
- Cost Free.
- Suitable for work.

3.2 Business Process Modeling

The very first business process modeling tools were pen and paper. Someone had the brilliant idea to visually define exactly how a process should work. One of the great parts of a visual representation of a workflow like this is that it is immediately understood by everyone else who sees it.

Over the years, business process modeling went from a big sheet of paper to an overhead projector, then to a whiteboard. All along the way, it was easy to create, edit, and share the concept with others.

Then [business process modeling](#) took a big step into the digital sphere. But instead of helping to make creation, editing, and sharing easier (they actually became harder), business process modeling tools now existed to communicate to software how to run an automated system.[3]

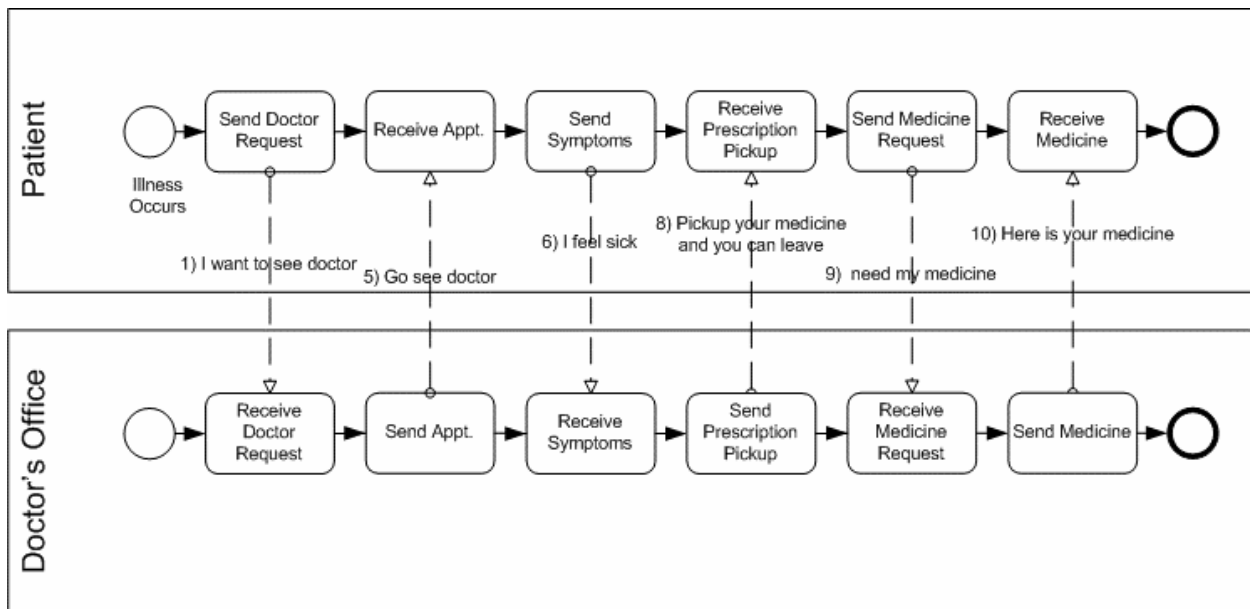


Figure 2.3: Business Process Modeling Diagram

3.3 Use Case Modeling and Description

In software and systems engineering, a use case is a list of actions that user and admin can do. They work each other or the whole process will be continued in a good process. A use case is a short scenario by which anyone can easily understand that user, admin, and others can connect in some

fooling mentioning way and there will include actors or others vital role or common scenario for others understanding.

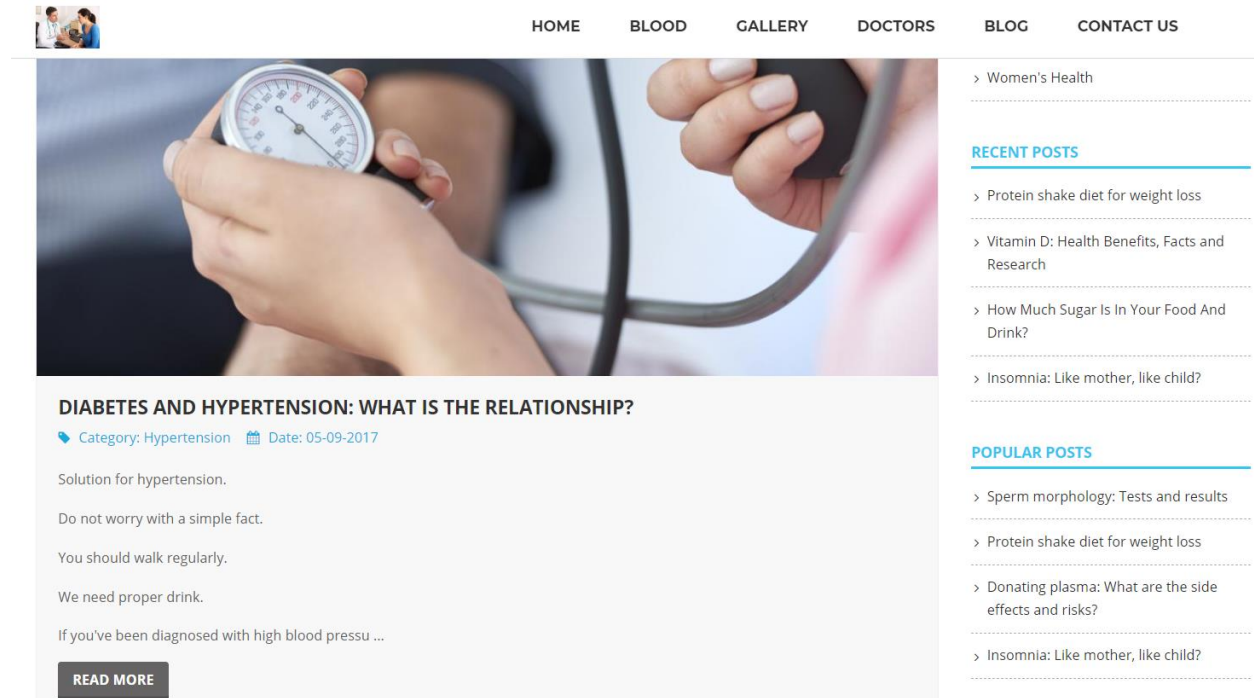


Fig2.4 : User can aware from DPC Home Page

User Out come: A DPC user will able to know about health,daily knowledge and many things.To move our daily life we need to know many things to survive our self.If a user browse DPC regularly then the user will able to solve many problems which will happen continuously in our daily life.

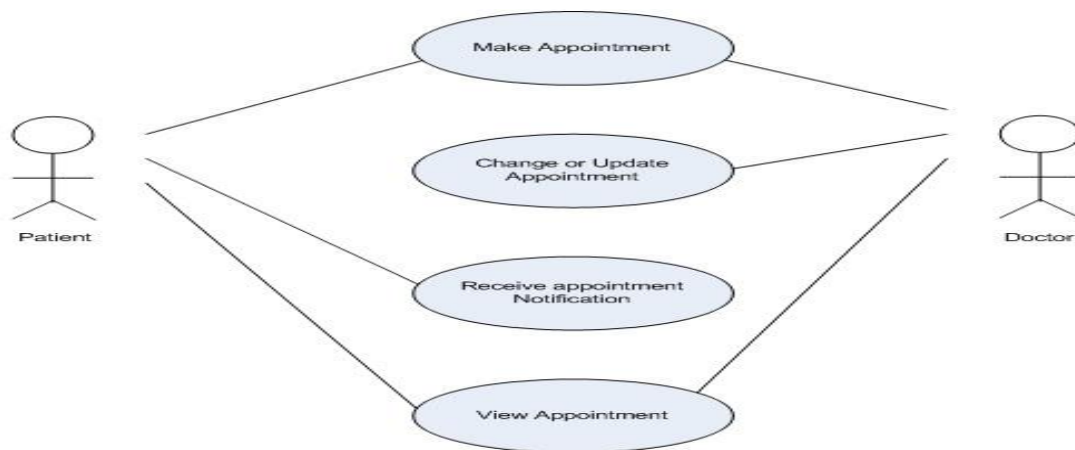


Fig2.5: Use Case Diagram between Doctor and patient

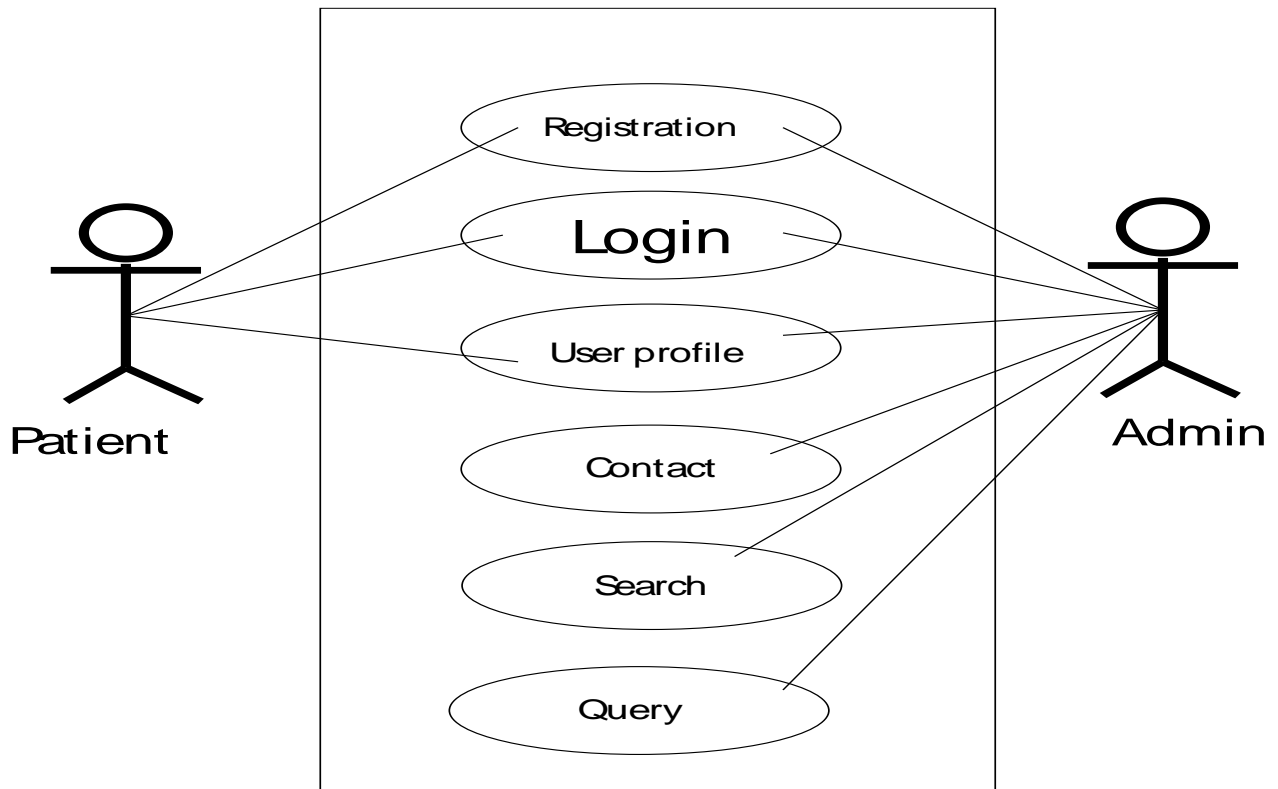


Fig 2.6 : Use case between Patient and Admin

Table: 3.1 Use Case Description of Registration

Use Case	Registration
Primary Actor	Admin,Agent

Secondary Actor	Null
Pre-Condition	Null
Scenario	<ul style="list-style-type: none"> a) Enter Valid Full name b) Enter unique username c) Enter Country zip Code d) Enter Valid email address. e) Enter password minimum of 6 Character

Post –condition	a)Registration successfully or failed b)Edit profile

Table 3.2 : Use case description of Login

Use Case	Login
Primary Actor	Admin,Agent
Secondary Actor	Null
Pre-condition	Registration
Scenario	a) Enter valid email address b) Enter password
Post –Condition	a) Login successfully or failed.

Chapter 4

Design Specification

4.1 Front-end Design

To make our website user friendly we focus on many things, first of color and combination and if a user browse our website for a long time he/she does not feel bother. By entering our website one can easily understand that what he/she looking for. We strongly believe that a good front end design save user time and efficient one's activity. We use some primary button by this the user has not to face any problems that one's can easily solve one's problem.

For better front end design we use HTML5, CSS3, JavaScript, jQuery & ajax technology. Basically we design our front end on the need of patients ,right now we focus only website and very soon we are going to convert this in android platform .We glad to say that our website support both Bangla and English Language. Our main target patient satisfactionary. As we found one can easily and spontaneously browse facebook homepage,that person will browse our website news feed very smoothly.In our front end design we try to give some important message to our users.

Our website will fulfill the thirsty of patients or general user. We keep many search option in our website by this within a very short time one can get one's answer. For example One is suffering from fever or catching cold but he/she does not know what to do. The person will come to our website and search the keywords. The person will get a lot of effective information of that key word.

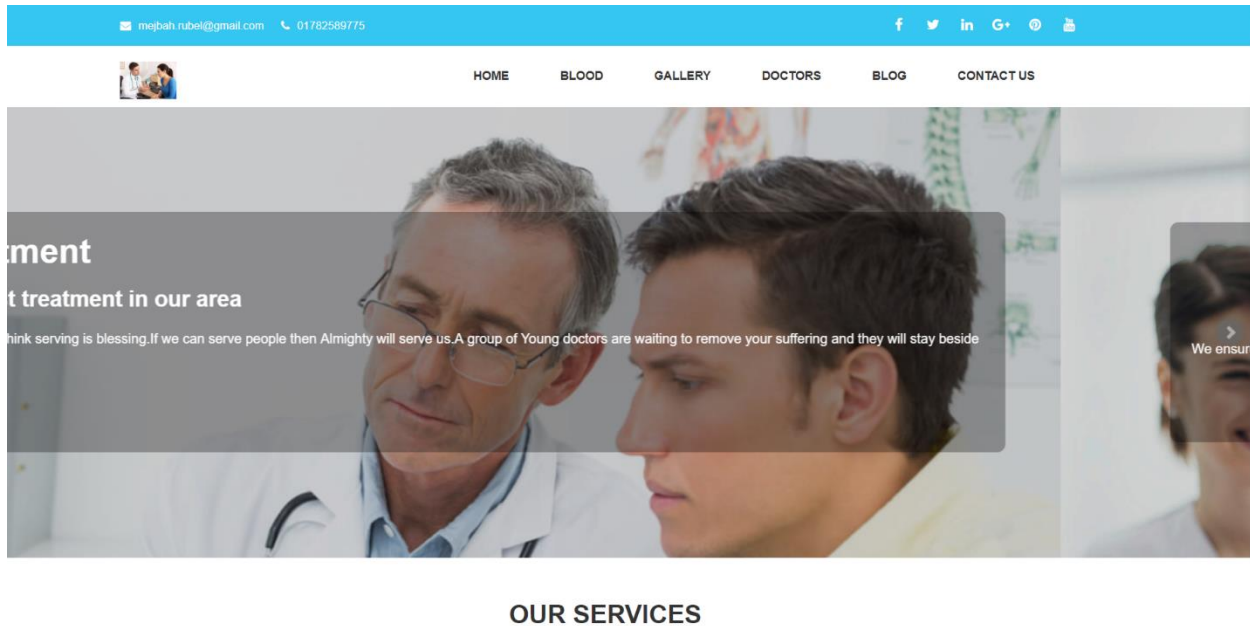


Fig: 2.7 Website Home page

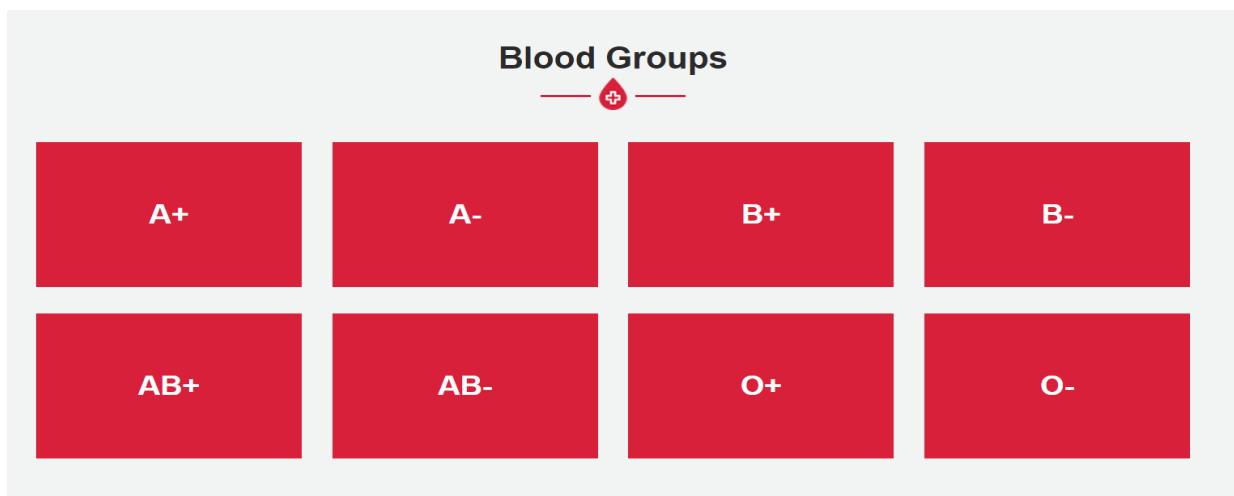


Fig: 2.8 Blood Donor Search



Figure 2.9: From search button one can gather specific Question's answer

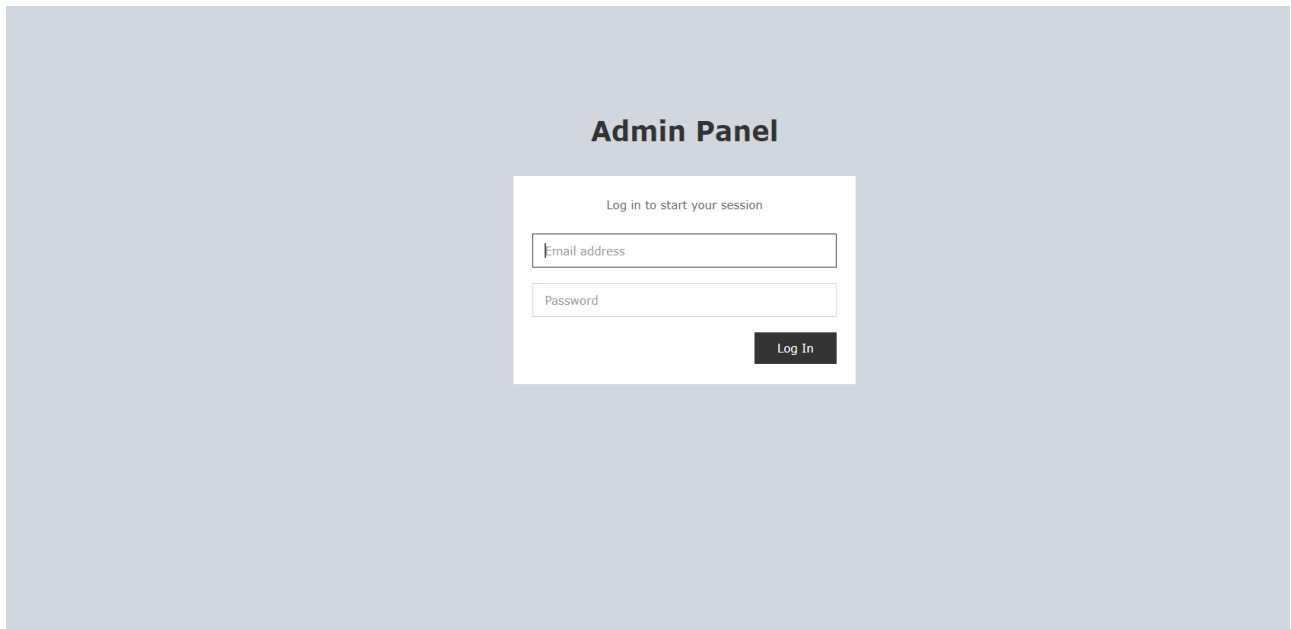


Fig 3.0 : Adman panel of Management

Admin Login: Admin can login the system using his user Id and password

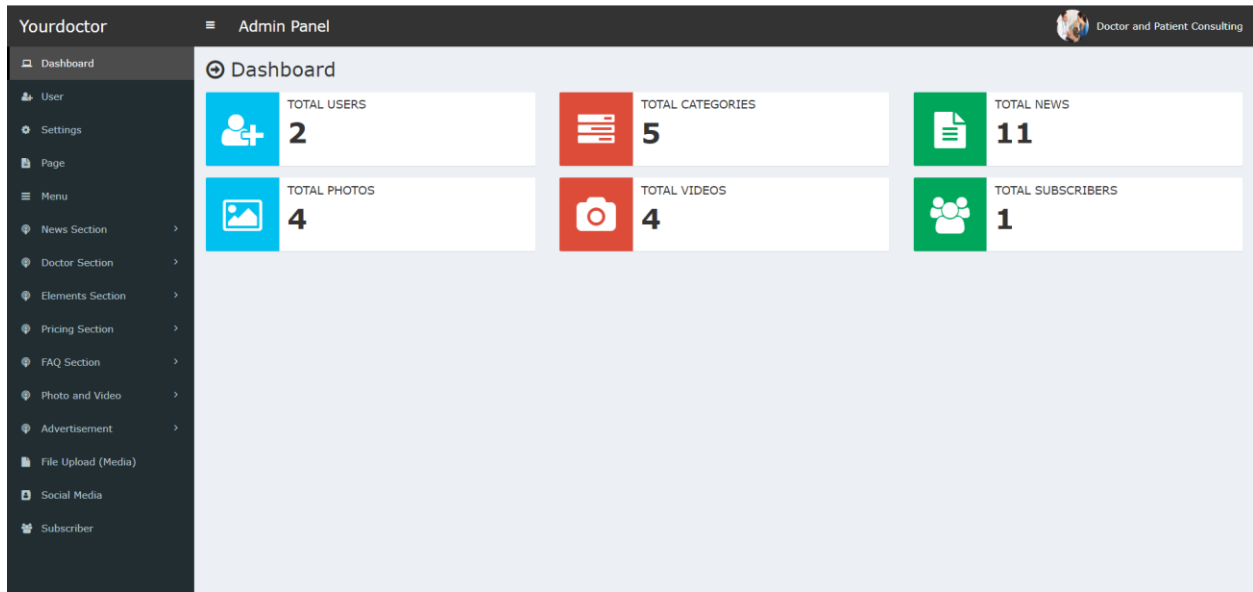


Fig 3.1: Dashboard

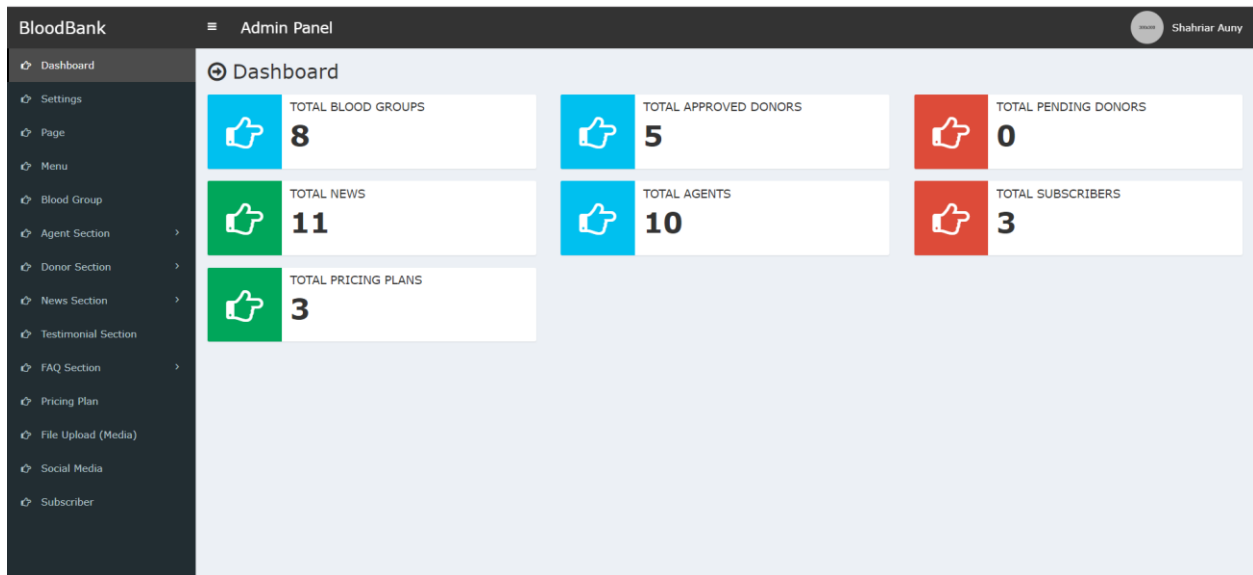


Fig 3.2: Admin Panel and Dashboard Design.

Admin panel: In admin panel admin can add menu or edit ,menu or delete menu.From admin menu admin can control the whole systems. Admin approve donor or agent.Images or anythings only admin can add these.



Fig3.3: Doctor Registration.

From admin panel admin can involve a doctor through details.

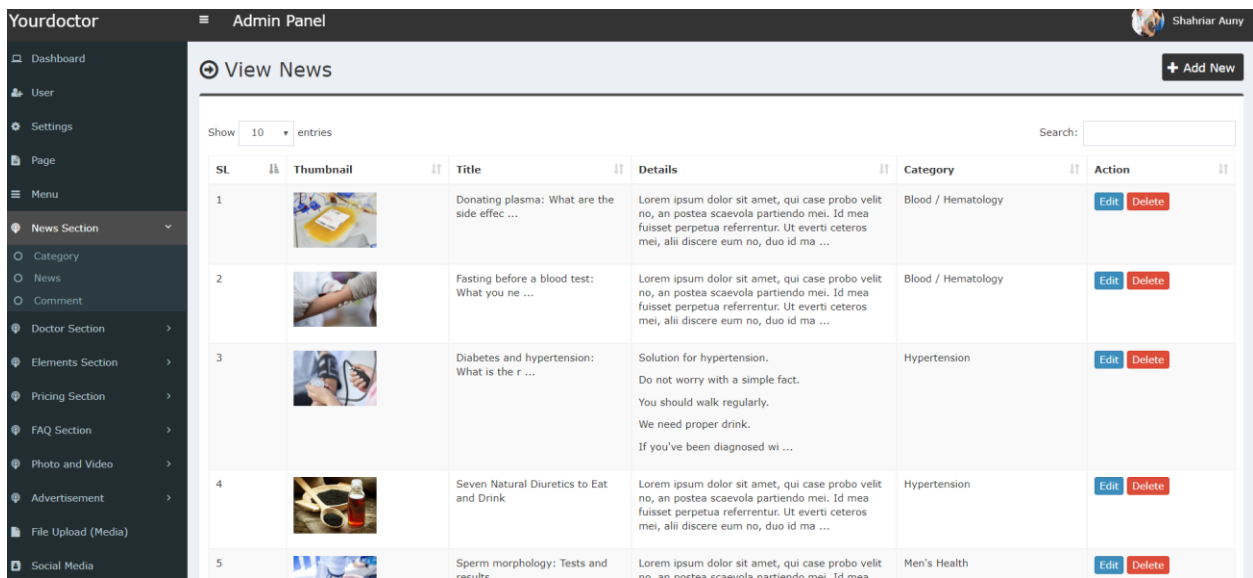


Fig 3.4: Necessary news for user

Admin will add daily news even some important new like a disease spread out and admin should inform it to spread to all users then the admin will include this.

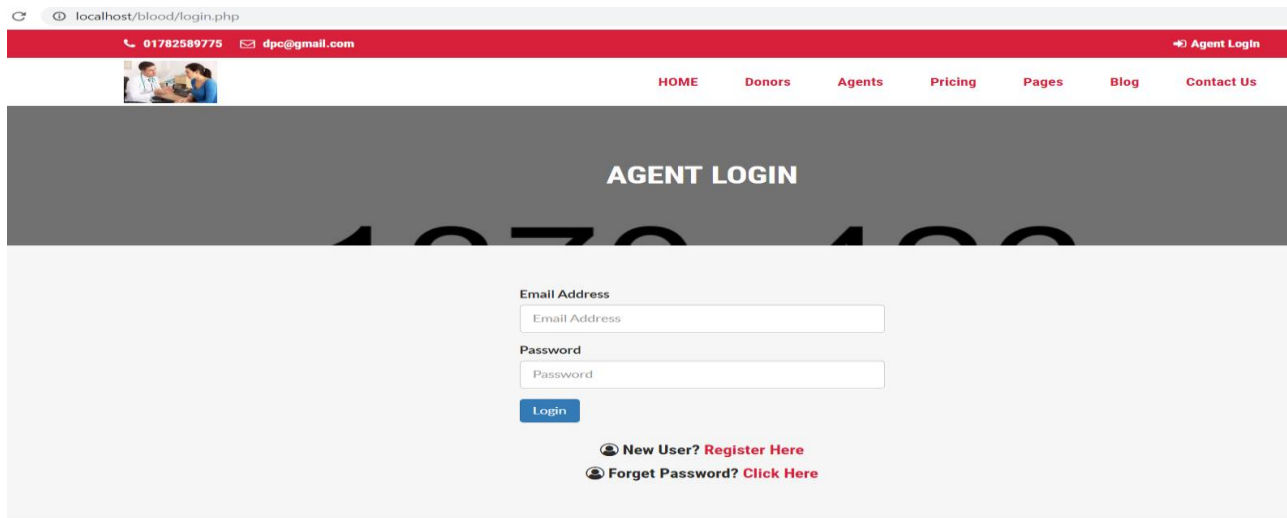


Fig 3.5: Agent login

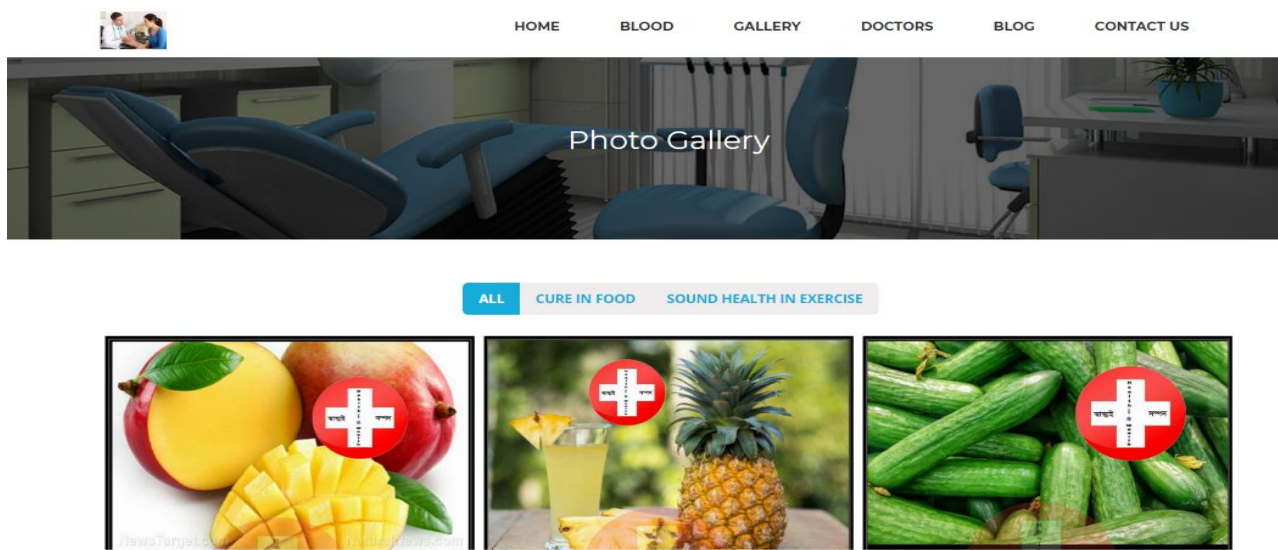


Fig 3.6: Information through imag

Gallery: In doctor gallery there are two options one is image gallery and another is video ,there contains a lot of in formation by this the user can gather a lot of information . Through gallery we have tried to give a lot of information and many vitamins which is very easy to find different

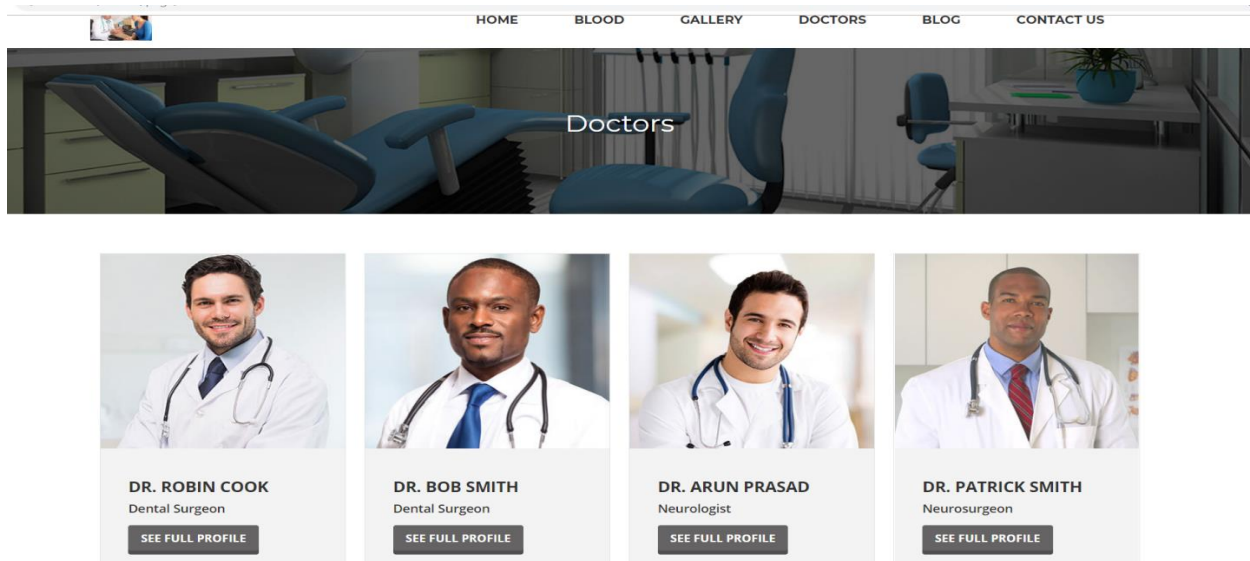


Fig 3.7: A list of experienced Doctor

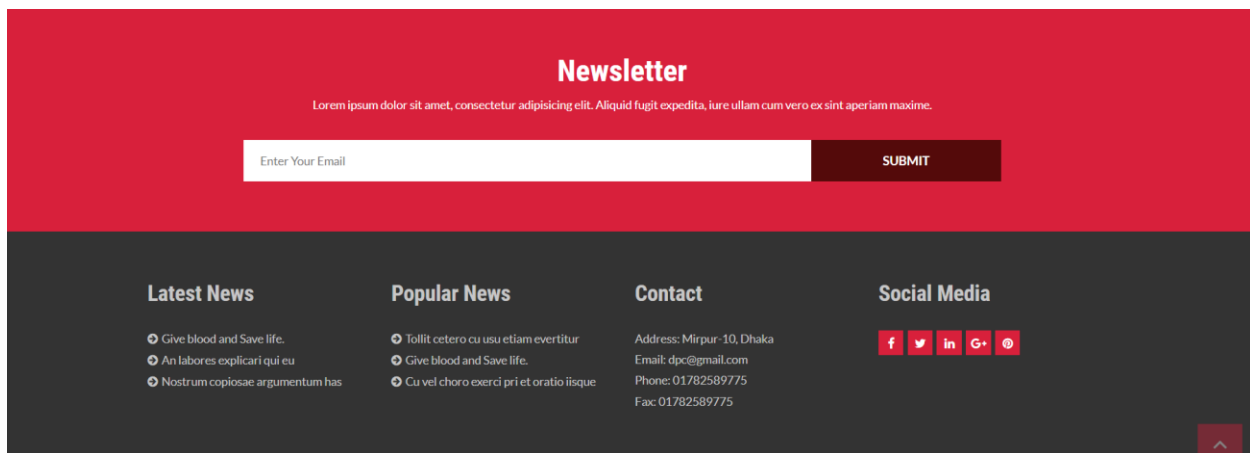


Fig 3.8: People can contact with Blood Donor

When agent will be approved by admin then the gen will be able to add donar with religion and many information. Then When user will search for donor ,the user can see the nearest donor in his/her area.

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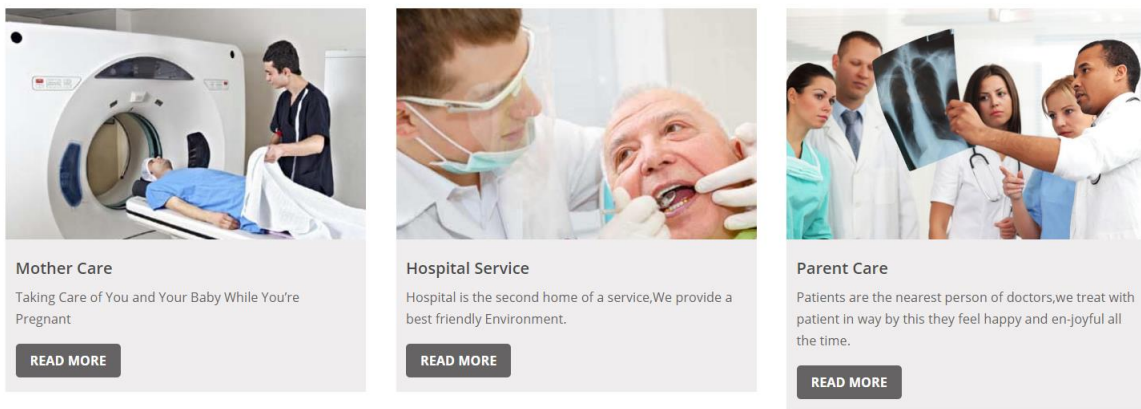


Fig 3.9 :User feedback

User Feed Back: When A user will read a certain article by login with some popular social media the user will able to give his/her opinion.



Mother Care
Taking Care of You and Your Baby While You're Pregnant
[READ MORE](#)

Hospital Service
Hospital is the second home of a service, We provide a best friendly Environment.
[READ MORE](#)

Parent Care
Patients are the nearest person of doctors, we treat with patient in way by this they feel happy and en-joyful all the time.
[READ MORE](#)

Fig 4.0: Hospital can post their special activity.

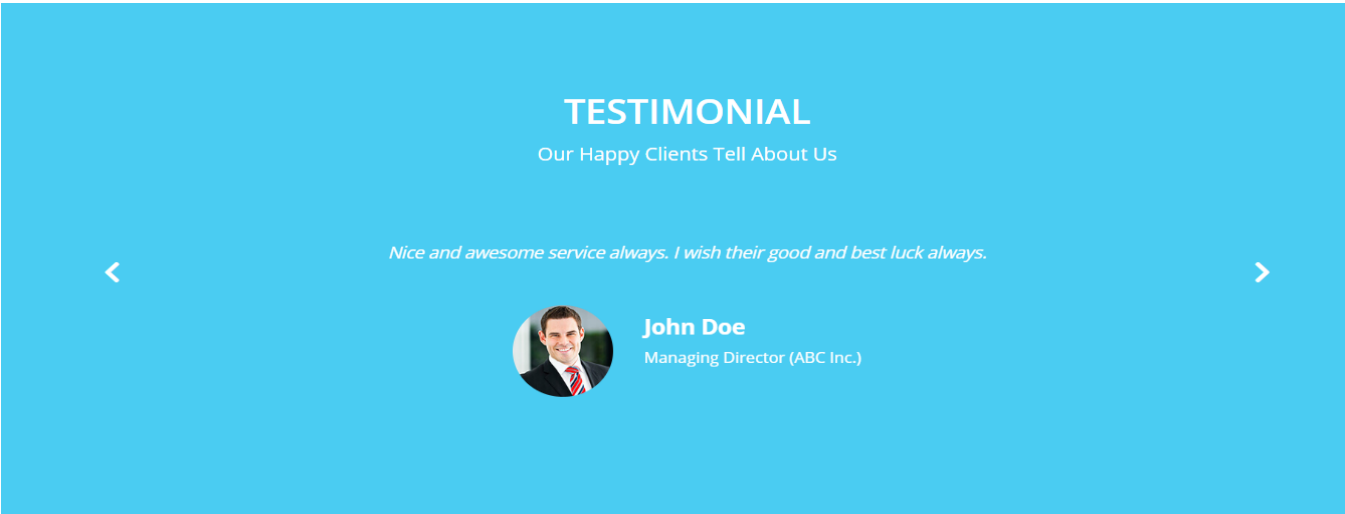


Fig 4.1.: Testimonial from DPC User

Testimonial: When user will take service from Doctor and patient Consulting the user will send his/her feedback. By this the other user or new user can see our services and Quality.



Fig 4.2: User can find important articles

Post Ad: User will be able to post his ad in our page by filling this form. All these fields are not mandatory. They will get voice instruction on how to post an ad.

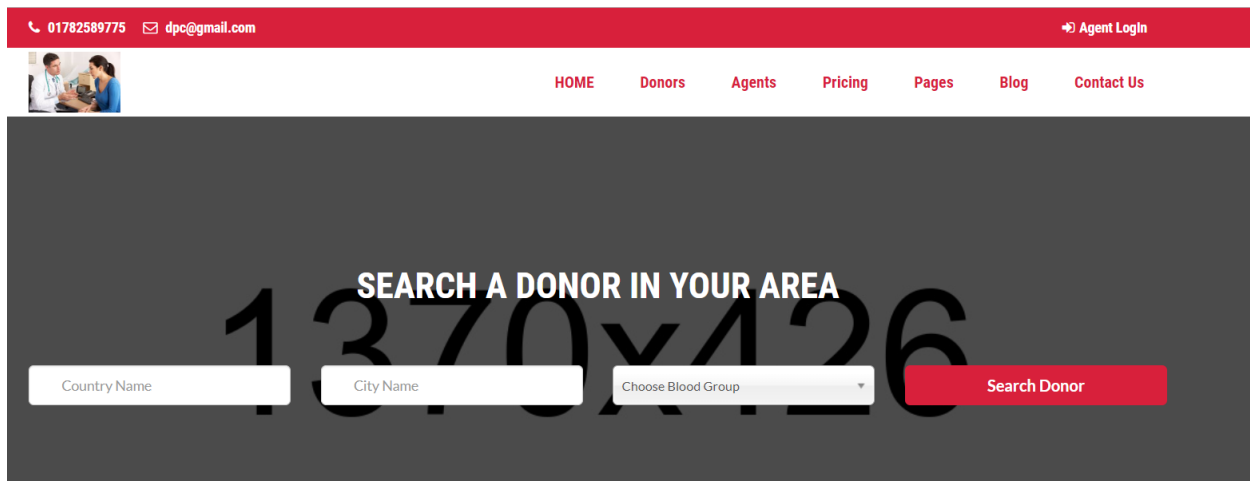


Fig 4.3: User can search Blood Donor

4.2 Back-end Design

The back-end, or the "server-side" design is, actually how the site works, updates and changes.

This refers to everything the user can't see in the browser, like databases and servers.

Back-end design deals with things like security, structure and content management.

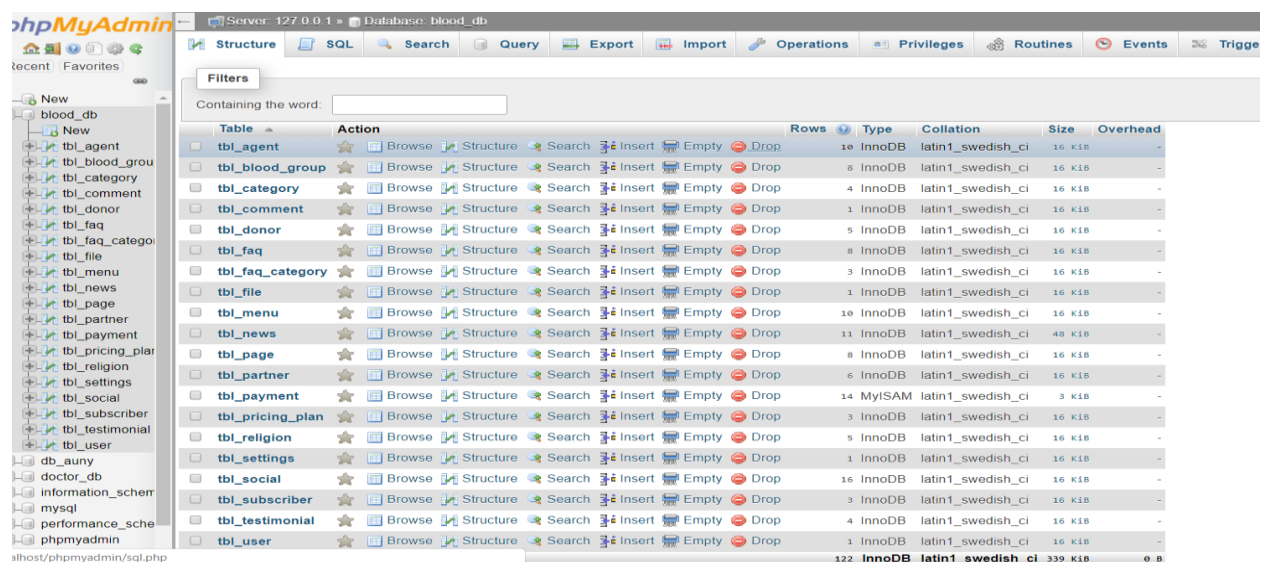


Fig 4.4: Database Design of Doctor and Patient Consulting

4.3 Interaction Design and UX

Interaction Design is the blueprint of the participation among customers and things. The target of association arrangement is to make things that help the patient to achieve their goals in the best way that could be accessible.

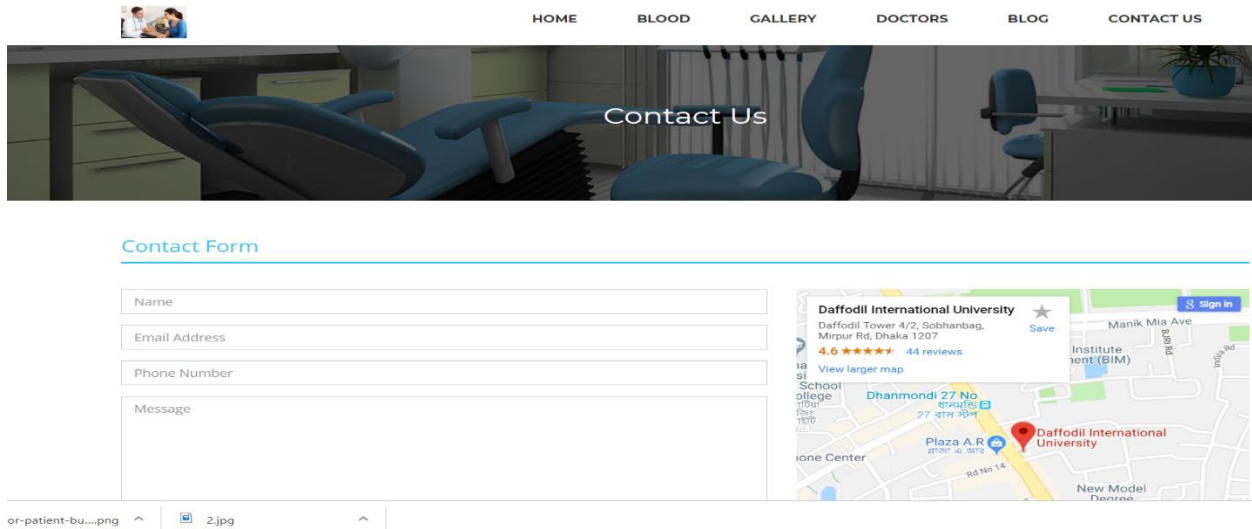


Fig 4.5: User Can Contact with DPC Admin

We always respect our users opinion by this we are eagerly wait what user sending to us. By this we may promote our future work and develop our activity.

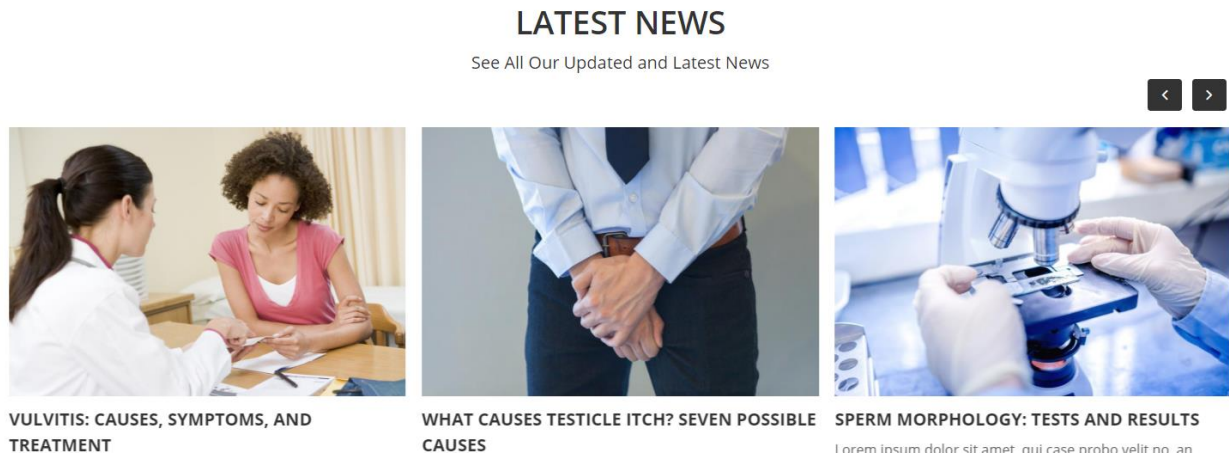


Fig 4.6: User can see important news about health and Conscious.

UX Design implies customer experience plan which is the path toward improving customer satisfaction by keeping up the accommodation, accessibility, and joy gave in the participation between the customer and the thing. [4]

It isn't just stressed over the wise materials yet moreover the way in which certain materials look, feel or make to pass on specific yields.

4.4 Implementation Requirements

Implementation is the fundamental process to do anything very smoothly and the things really going to occur.

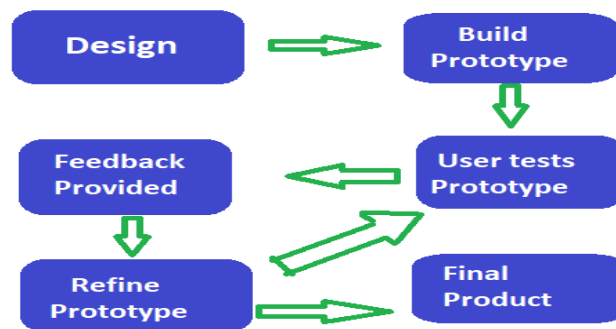


Fig 4.7: Requirements of Implemantaioin

Our System is very much user friendly, after implementing our software we work in field by this we come to know user feedback what they are saying a about our project,then we take valuable opinion from our user and do the rectification by ownself.

CHAPTER 5

Implementation and Testing

5.1 Introduction

Implementation is an imperative part to deal with an application. It enhances to improvement of our whole development. When we want to work with the whole project we need some demo data by this we can come to know that our project is working and by this we come to know our error.

Before implementing the system, we would have to test the system using demo data. So we have to collect a lot of demo data and test the system using those.

5.2 Implementation of Database

We have used MySQL database in our system for both the website and mobile app. We have used a central database that would serve both the website and the app. It would hold all the data of our system. Before implementing the app to the real users, we would test the functionality of the database whether all the functionalities and relational tables are working properly. We would insert at least 300 products add, around 200 agricultural crop's disease and their cures. We also would register 40-50 users to test the accuracy and security of the system.

5.3 Implementation of Front-end Design

Implementation of front– end configuration is one of the fundamental procedures for starting a web application. Firstly, we would like to implement our system among some of our known persons to test whether the front-end functionalities are working properly. We would test how much load it's being able to keep. We would collect their feedback and will try to improve the design and functionalities according to their feedback. We will try our level best to make the front-end design more user friendly.

We have utilized the accompanying apparatuses for actualizing front-end plan of our framework.

- HTML (backbone of any website development process).
- CSS (demonstrates the presentation aspect of the site and allows a web application to have unique look).
- JavaScript (transform a static HTML page into a dynamic interface).
- Bootstrap (a front-end framework containing HTML- and CSS-based design templates).

- jQuery (a cross-platform JavaScript library designed to simplify HTML).

5.4 Implementation of Interaction

Implementation of communication is finished considering the prerequisite of clients of a system. We have thought about the accompanying criteria for executing the cooperation of our framework.

- User satisfaction.
- We try to make the whole user system very smoothly.
- Having a comment section by creating a feedback option.

5.5 Test Results and Reports

Table 5.1: Login Report

Test ID	Date	Module	Test Cases	Test Data	Pass/Fail	Status of Bug	Comments
1	15/03/19	Login	Login as Admin	Admin's username and password	Pass	N/A	Only login panel for Admin
2	15/10/19	Login	Login as User	User's Mobile No and Password	Pass	N/A	Only login panel for registered Users

Table 5.1.: Registration and verification Report

CHAPTER 6

Conclusion and Future Scope

6.1 Discussion and Conclusion

Our motto is great. We want to decrease patient sufferings, if we want to get a good nation we need a healthy nation. But our general public is very much frustrated with medical treatment. Our aim is to solve these problems by this we will give back the trust to public and they will get experienced doctor and good friendly hospital and they won't need to face problems. We want to do a smart communication between doctor and patient.

Limitation :

- i) Still we are unable to include pharmacy and medicine company.
- ii) We want to monitor whole indoor system of hospital.
- iii) Patients can give a review about a doctor.
- iv) Patient can share their bio data towards doctor.

6.2 Scope for Further Development

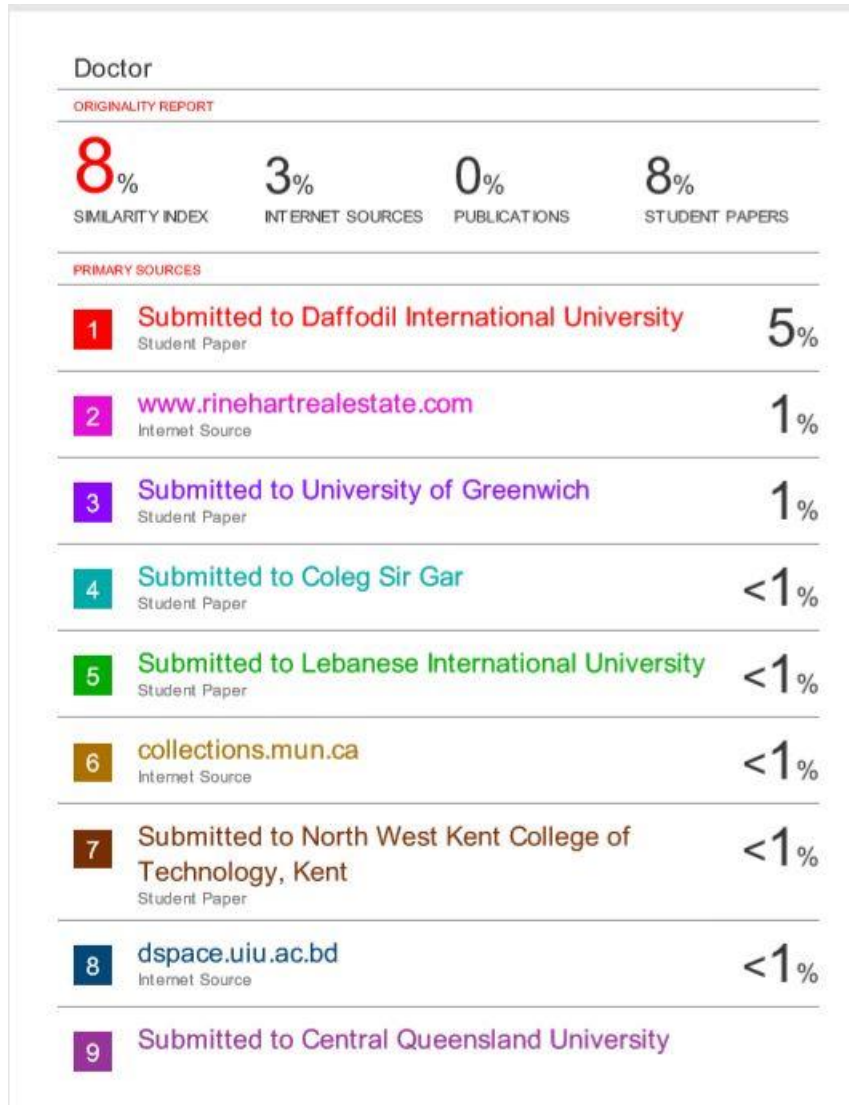
We want to whole medical department through our website in nearest future. Our project can be enhanced with more features and contents to help the users. We have some planed about some features to be implemented in future to make the system easier and user friendly. Some of these features are discussed below:

- GPS system for tracking the location of the vehicles
- All Ambulance will available in our website, one can easily get ambulance
- All hospital will come to our control
- Patient can live chat with doctor and through online patient can take appointment of doctor.
- By searching blood donor, the user will get nearest donor through Google map.
- With the permission of patient a doctor can see the permitted data of patient

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