

EFFICIENT DOCTOR PATIENT MANAGEMENT SYSTEM

BY

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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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APPROVAL

This Project titled “EFFICIENT DOCTOR PATIENT MANAGEMENT SYSTEM”, submitted by MD.ABUL HASNAT SHO VAN, ID: 181-15-10726 and KOWSER ALI, ID: 173-15-10433 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 12-09-2022.

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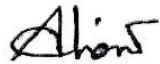


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We hereby declare that, this project has been done by us under the supervision of **Dr. Moushumi Zaman Bonny**, Assistant Professor, Department of CSE Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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ABSTRACT

In this project we have built a doctor patient management system. Through this system a patient can book an appointment for a particular doctor in a certain time & date.. also the patient can consult with the doctor by means of a video call or chats.patients who live in a rural area No need to come across a long way to visit the doctor.Virtual meetings moreover make it simpler for patients to reach out to their doctors.

A user also can detect his disease through a prediction from the system. the system collects the symptoms then then converts it as a prediction 70% of the dataset will be used as training and 30% will be used for testing data. here naive bayes algorithm works on a probabilistic approach We have imported Scikit.also used multinomial NB

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CHAPTER 1

INTRODUCTION

1.1 Introduction

As of now, the situation is such that the persistent who's enduring from any infection should go to the doctor's clinic in arrange to book an arrangement. There's no such program that can tell the quiet what illness he/she is enduring from based on the symptoms given. Additionally the computer program these days don't donate you the choice of finding a specialist based on the area or may be on his title or may be on the specialty.

Similarly for the specialist, the specialists inquire the patients to urge their medicines when they come for the following appointment. The specialists don't keep track of when the persistent showed up final to him/her did.

The specialists don't indeed know who they are going to visit for the day so that they can oversee their arrangements agreeing to that. Proficient specialist understanding entrance is a managing framework that makes a difference specialists as well as the patients by giving alternatives of booking arrangements as per the convenience of both specialist and patients with the thought process of therapeutic advance. Through this framework,

Specialists can easily manage the arrangement openings online. Framework will make all the purge openings obviously accessible to the patients, which are booked by the title of any specific persistent.

The framework makes it simple to oversee different specialists and their availability on different dates and timings. Specialists keep up the restorative history of the understanding into their database so that each time any particular quiet logs into the framework, he/she can effortlessly get to their total therapeutic history at whatever point required. In addition, it makes a difference the specialist to allude their patient's

therapeutic history for any assist medicines. This permits for an automated persistent specialist taking care of framework through a web interface. This framework too permits quiet to send their documents may it be their reports or any other pictures.

1.2 Motivation

Around the world, technology is becoming increasingly significant in the field of health care. In our country we consider about the health care cost, healthcare provider job satisfaction, sufferings for the patients live in rural area, traffic congestion, although Bangladesh has suffered the effects of pandemic, Since the outbreak of the pandemic, so We came up with the concept to create an online long distance heal care system.

1.3 Objectives

1. to reduce health care costs
2. improve persistent
3. outreach
4. Increased healthcare provider job satisfaction.
5. Less suffering for patients who lives in a rural area
6. Improving the medical system
7. Reduce traffic congestion

1.4 Expected Outcomes

Efficient doctor patient management system will reduce health cost.will save money. people live here under below line.so its most of the people are unable to go to the doctors chamber after a long journey with transportation cost. besides patients like a pregnant women its a great opportunity for them to consult with doctor without going out from home

CHAPTER 2

BACKGROUND STUDY

2.1 Terminologies

A website serves as an online health service where user can register as a patient & a doctor can register as a doctor. a patient can book an appointment for a doctor. admin can verify a doctor after his or her registration. if the doctor is verified he or she can see the appointments .also can change schedule, online payment is available for the user [6].

2.2 Related works

Related works

1. Sebahgar: Online Doctor Video Consultation App picture as figure



Figure 2.1: Doctor Dekhao Page

2. Dokter bhai Banglalink healthcare app



Figure 2.2: Banglalink healthcare Page

3. Tonic

টনিক-এ ফ্রি জয়েন করে মেম্বাররা পাচ্ছেন

- টনিক জীবন**
আপনার ও আপনার পরিবারের প্রতিদিনের সুস্থতার পরামর্শ পাবেন SMS আর www.mytonic.com-এ
- টনিক ডাক্তার**
আপনার বাস্তব বিষয়ক পরামর্শের জন্য যেকোনো সময় প্রয়োজনে পাশে পাচ্ছেন একজন নিবেদিত ডাক্তার কল করুন ৭৮৯ নম্বরে
- টনিক ডিসকাউন্ট**
হাসপাতাল সেবায় সর্বোচ্চ ৪০% পর্যন্ত ডিসকাউন্টে পাচ্ছেন হাসপাতাল শয্যা, পরীক্ষা-নিরীক্ষা আর বিশেষজ্ঞ চিকিৎসকের পরামর্শ
- টনিক ক্যাশ**
আপনার প্রয়োজনে যেকোনো হাসপাতালে ০ রাত বা তার অধিক সময় ভাতি থাকলেই পাচ্ছেন ৫০০ টাকা ক্যাশ সুবিধা

Tonic-এ জয়েন করতে ডায়াল *789# অথবা ভিজিট www.mytonic.com

TONIC
ভালো থাকার মাস্টার প্ল্যান

Figure 2.3: Tonic Page

4. Seekmed



Figure 2.4: Seekmed Page

2.3 Challenges

Still we need some development for the Project. we are concerned about the security features. it needs more development. In authentication, we have used Bcrypt. A user can register through passwords of eight digits. If the user forgets his password, he or she can also change the password. But in this case, we need more security features. We are trying to overcome all the challenges that we faced through the development period.

CHAPTER 3

REQUIREMENTS SPECIFICATIONS

3.1 Modeling Operational Processes

Modeling Operational Forms could be a graphical delineation of any company's or website's business demonstrate or handle, as well as the forms that make it function. We illustrated in our BPM how a client may get to both free and premium substance after correctly completing a buy utilizing the installment benefit. Courses, web journal passages, pdf books, online tests, work declarations, and other assets may be found here

3.2 Gathering and Analyzing Requirements

This assignment is concerned with the inquire about, arranging, development, operation, and assessment efficient doctor patient systems to offer consumer-pleasant environment to get best user satisfaction ,experience A few fundamental necessities and collections are required to fulfill our site. These can be pointed out as:

- admin panel
- news & articles
- user profile
- doctor profile
- blood bank
- payment gateway

3.3 Models and Specification of Use Cases

The utilize situation could be a technique for organizing and distinguishing framework needs in a framework. We created a utilize case show based on figure that characterizes our on-screen characters and their functions. Our parts are a client, an editor, a coach, and an authority.

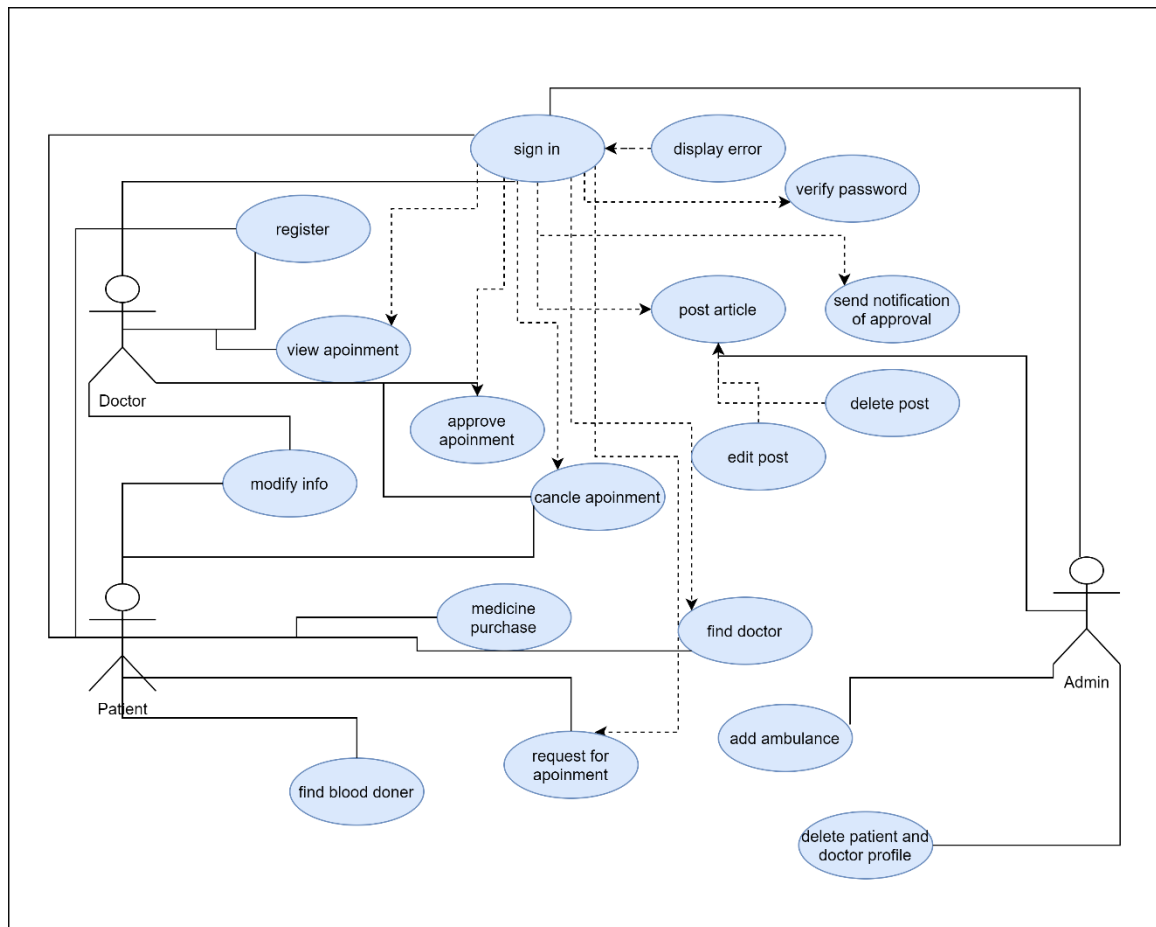


Figure 3.1: Models and Specification of Use Cases

3.4 Model of the System in UML

Table 3.1: Model of The System in UML for User Registration

Model of the System	User Registration
Principal Character	Patient, Admin
Additional Player	Empty
Well before	Empty
Scenario	<ul style="list-style-type: none"> ● Enter your Name ● Enter the Correct email Address ● Enter passwords ● Enter confirmation key
Post-condition	<ul style="list-style-type: none"> ● Whether you signed up properly or not, ● Login

Table 3.2: Model of The System in UML for login

Model of the System	Login
Principal Character	Patient, Admin
Secondary Actor	Empty
Pre-condition	Sign up
Scenario	<ul style="list-style-type: none"> ● enter the correct mail ● enter passwords
Post-condition	<ul style="list-style-type: none"> ● Valid or invalid login ● Portal

Table 3.3: Model of The System in UML for patient login

Model of the System	Profile setting
Principal Character	Patient or User
Secondary Actor	Empty
Pre-condition	Login
Scenario	<ul style="list-style-type: none"> ● Modernize the photo of profile picture ● Modernize the name ● Modernize the mail ● Modernize the key ● Close your account
Post-condition	<ul style="list-style-type: none"> ● Modernize the successful ● Check my profile ● Portal

3.5 Requirements for Designing

Table 3.4: Requirements for Designing Analysis Table

Module	Objectives	Evaluation of Requirements
Admin	Admin Tasks	<ul style="list-style-type: none"> • The admin has control over user roles. • An admin can change or remove a user's position. • The list of accessible resources is visible to the admin. • The admin can change and add materials. • doctor and patient might be approved by the admin.
Users	Users Interactions	<ul style="list-style-type: none"> • Users can register and log in using a valid email address. • A user's profile can be updated. • The users can blog and upload handwritten notes. • Users can purchase medicine.

3.6 User login

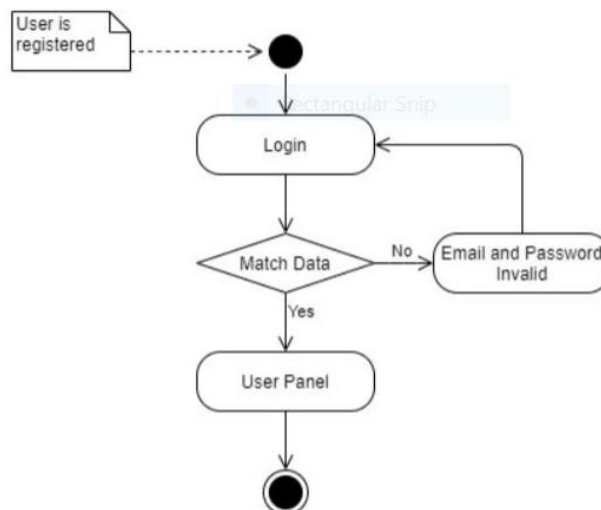


Figure 3.2: User login

3.7 Manage doctor

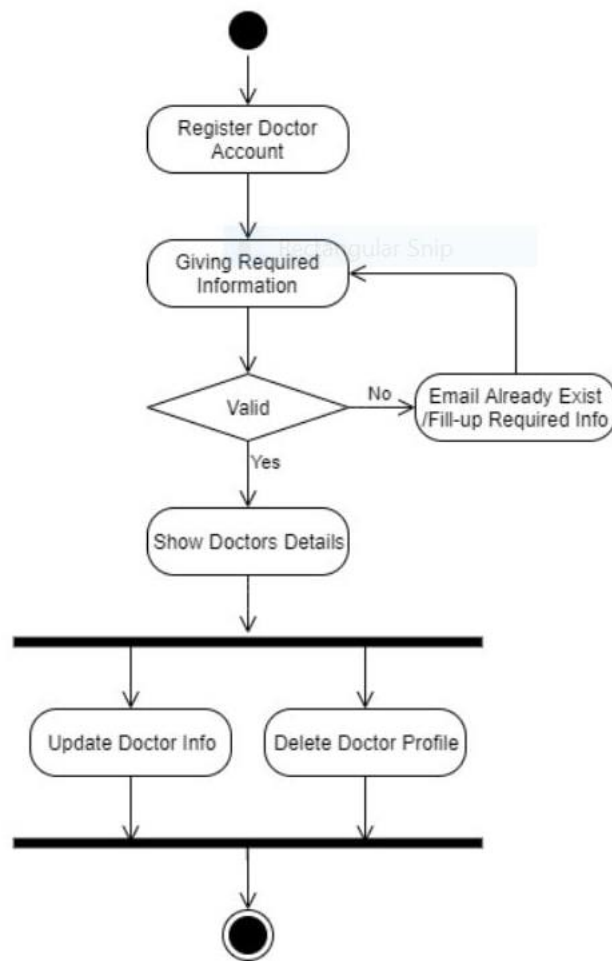


Figure 3.3: Manage doctor

3.8 Manage patients

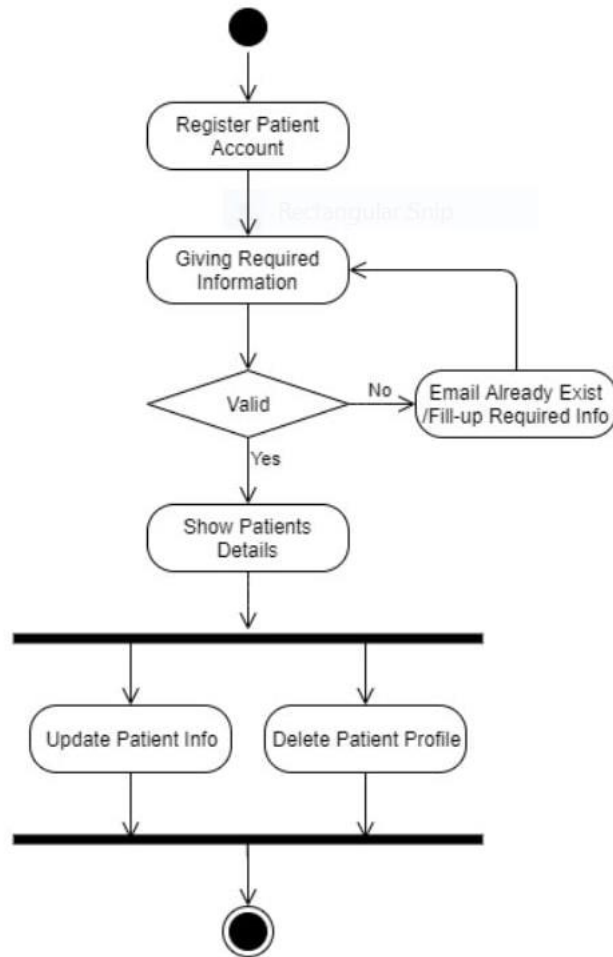


Figure 3.4: Manage patients

3.8 Manage transaction

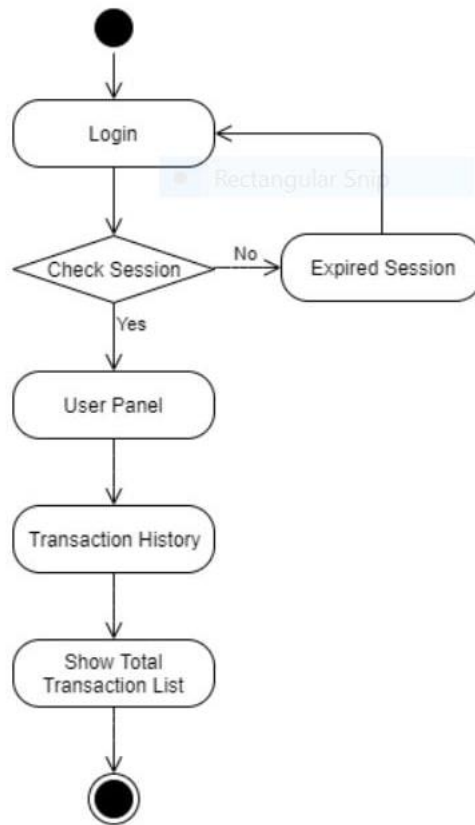


Figure 3.5: Manage transaction

3.8 Manage appointments

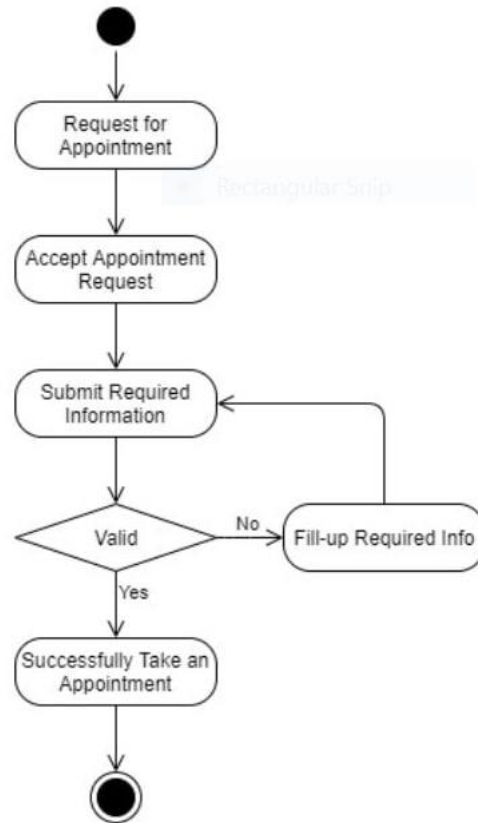


Figure 3.6: Manage appointments

CHAPTER 4

DESIGN SPECIFICATION

4.1. Front-end Design

In the front-end we have worked with Html,Css,Javascript& React jsframework.its a user friendly and easy to work with framework.its very powerful framework.the user will experience a nice view of front end graphics [4].

- Respond System: One of the foremost well-known javascript systems for creating interactive client interfacing is Respond. In respects to legal and helps within the determination of our interface architecture's Relaxation.
- Fabric UI Modules: Fabric UI could be a framework that lets us consequence and utilize a variety of modules in our Respond ventures to form a watcher interface.
- Axios Library: It's a Javascript framework for making Demands to the server from a browser that underpins the guarantee API to a NodeJS server. It is additionally able of canceling demands

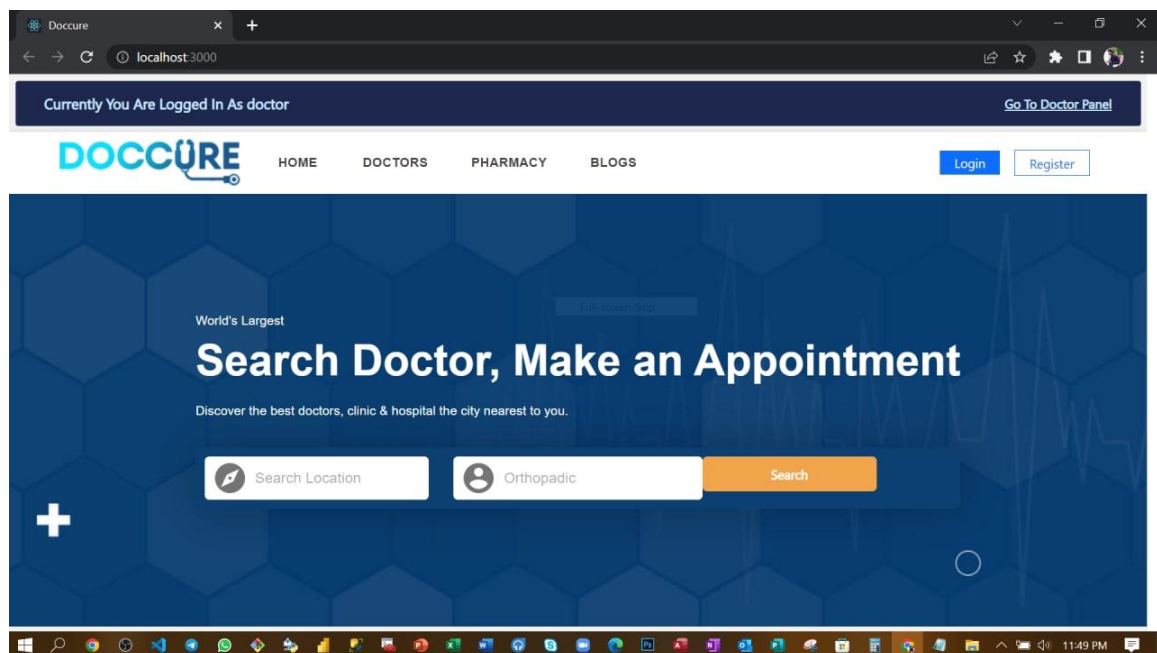


Figure 4.1: Home Page

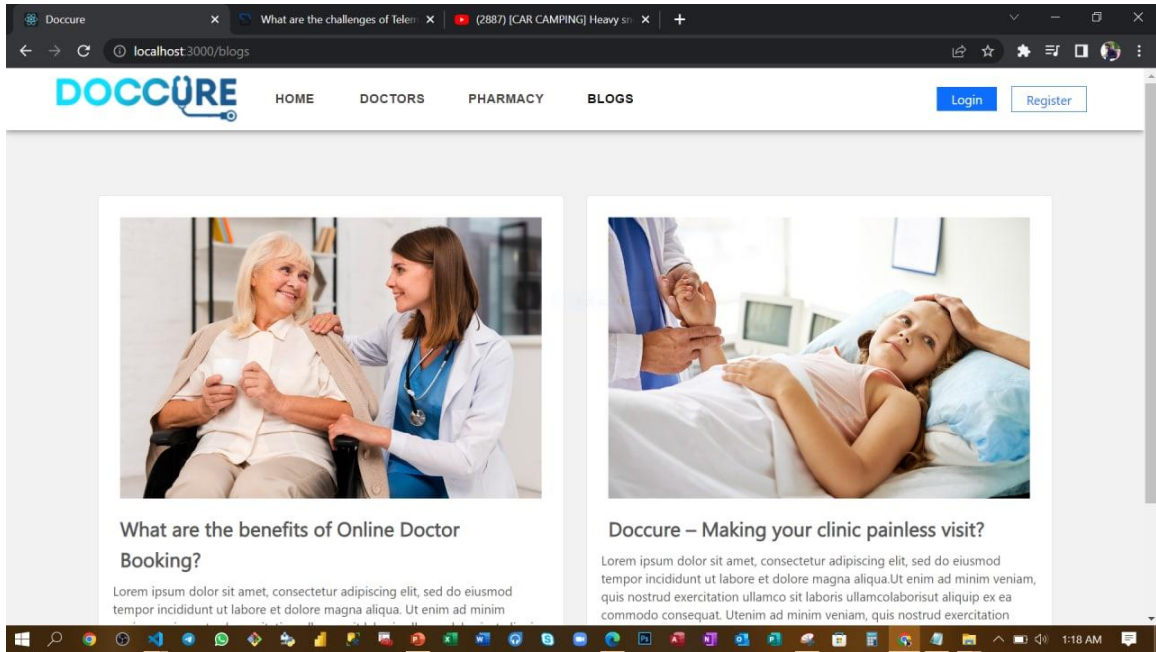


Figure 4.2: Blog Page

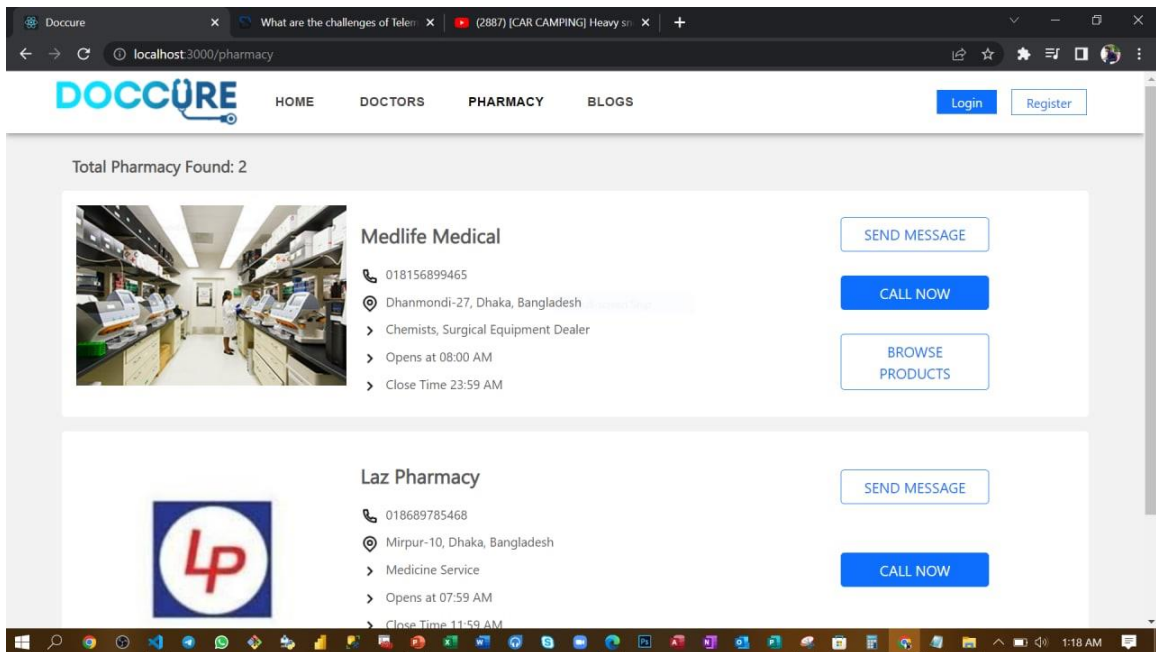


Figure 4.3: Pharmacy Page

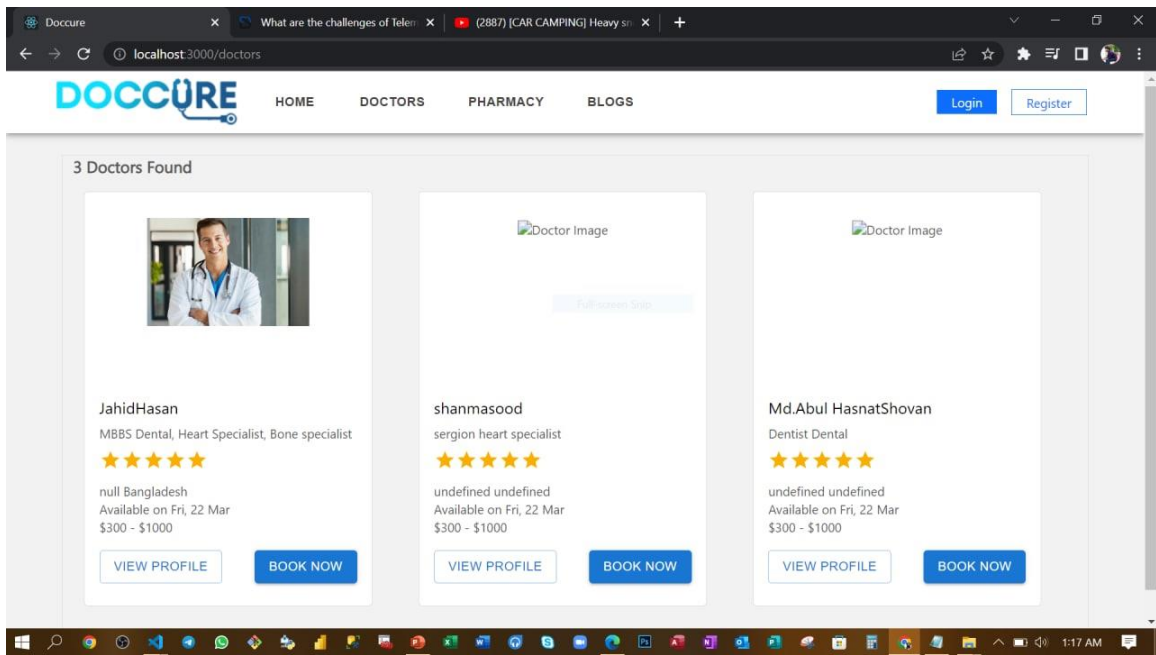


Figure 4.4: Doctor Found Page

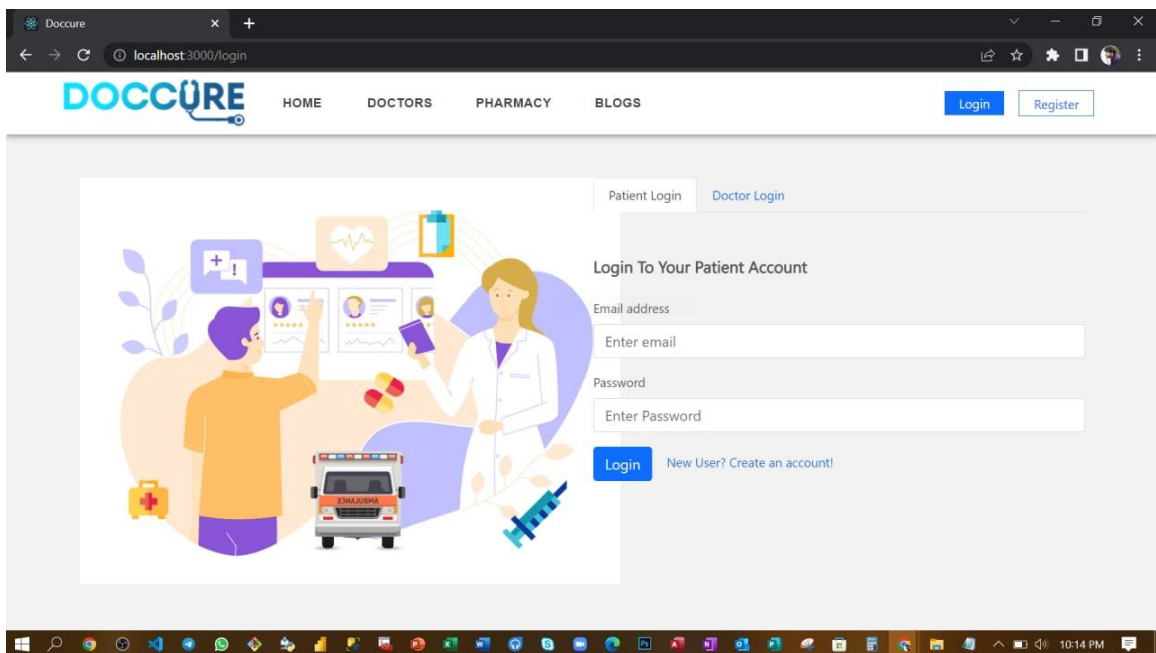


Figure 4.5: login Page

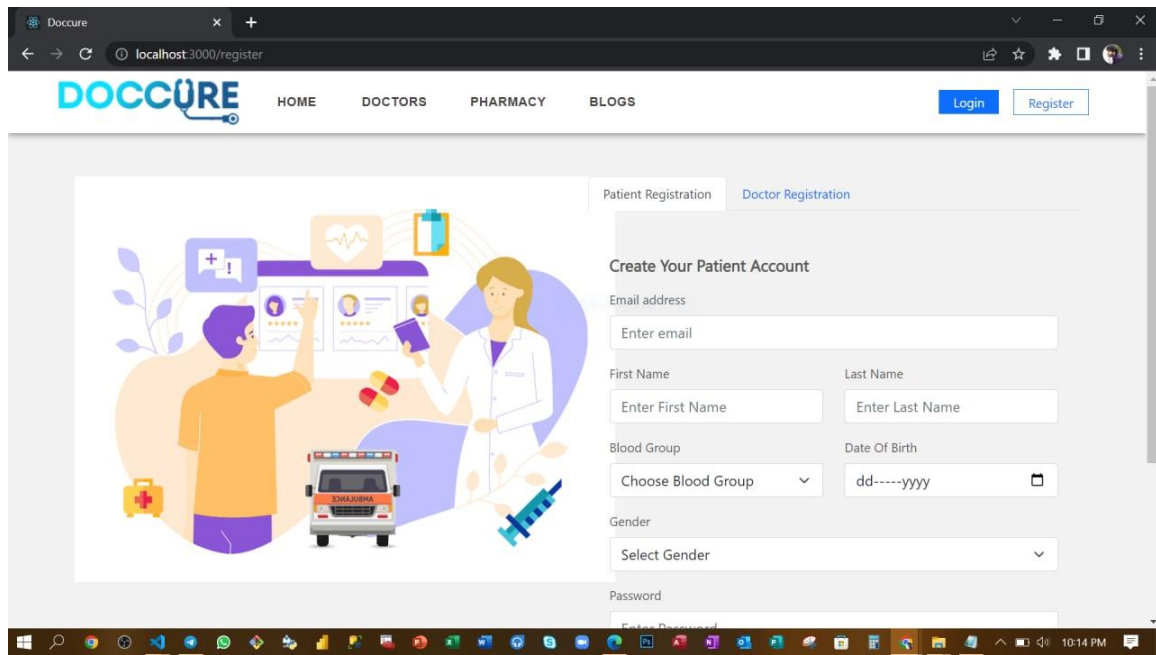


Figure 4.6: Register Page

4.2 Back-end Design

Backend format makes a web location energetic. It describes how the internet site works. The designers are alluded web security, substance, fabric of the site. Backend is foremost complex and basic portion of web location. Total web basically completely gadget depends. Designer wants manage differing stages approval, administration, records and so on [7].

4.3 Interaction Design and User Experience (UX)

User will experience a smooth user friendly design. Smooth navigation makes it better to use. Also the dark mode will increase best user experience. Anyone can easily find out the highlights. The home page, doctors page and blogs are illustration filled pages so the all the user can easily understand that what's the page for. Any kind of activities gives a pop up message to the user to guide the [10] user can fill out information in pop ups and notifications. All kind of activities creates different different notifications to the user.

4.4 Implementation Requirement

- The front-end site is made utilizing Respond system.
- We have utilized Postman for the testing our API.
- Approval and confirmation on the client side is done with advanced JavaScript.
- Any invalid information input in shape ought to be cautioned by different mistake messages.

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1. Implementation of Database

In our site we have actualized MongoDB as our database. It is document-orientated . that makes a different information in JSON-like files with energetic construction. It approaches that it may keep our information comprising areas records. MongoDB records are similar to JSON objects. Our plan of the productive specialist persistentframework comprises of 8 substances, where the particular substances will be our database collection in our mongo dB chart book databaseand the usage of productive specialist quiet database pattern. Our substances are:

- .services
- .admin Panel
- .Doctorregistration
- .patient registration
- .doctor sign in
- .patient sign in

5.2 Implementation of Frontend Design

In authentication we have used Bycript. There will be a enrollment prepare and the capacity to log in as a enrolled client with a totally special profile which will be edited.

Dashboard-There will be a dashboard page that appears diverse highlights that we are giving to the clients, teaches.

Adminpanel:An admin dashboard device for location organization, including doctor verification , medicine shop adding, patient verification.

Doctors-in the doctors page the verified doctors list will be shown

Patient& doctor register-in this page patient & doctor can register as pateint& doctor filling up couple of information along with passwords

Sign in- in this page patient & doctor can sign in as pateint& doctor filling up couple of information along with password.

pharmacy- in pharmacy page shops added shops will be shown

5.3 Testing Implementations

Test comes about and reports are the crucial portion of an application to legitimize in the event that the application is ready to dispatch or not. This could be gotten through assessing all the highlights. We need to run different sorts of testing to check the practically works precisely as we expected. There are diverse sorts of testing including:

- Usefulness testing
- Ease of use Testing
- Web UI Testing
- Compatibility Testing
- Execution Testing
- Security Testing

After passing through these tests effectively we will guarantee our application to dispatch. We have tried these through diverse phones, tablets and pc. At the conclusion, we carried out the results and the benefits of convenience of testing:

- Best UI for interaction.
- Simple to utilize by the users.
- Framework is simple to utilize and search.
- Application is more promptly acknowledged by users.
- Great quality of application all through the market.

5.3.1 Login Test Case

Table 5.1: Login Test Case

Conditions	Email	F	T	F	T
	Password	F	F	T	T
Actions	Result	Error: Please enter valid email and password	Error: Please enter valid email and password	Error: Please enter valid email and password	Successfully Logged in
	Expected Result	Error: Please enter valid email and password	Error: Please enter valid email and password	Error: Please enter valid email and password	Successfully Logged in

5.3.2 Change Password Test Case

Table 5.2: Change Password Test Case

Conditions	Old Password	False	True	False	True
	New key	False	False	True	True
Actions	Result	Error: enter valid email and password	Error: enter valid password	Error: Please enter valid password	Password Changed
	Result	Error: enter valid password	Error: enter valid password	Error: enter valid password	Password Changed

5.3.3 Test Case Evaluation

Table 5.3: Test Case Evaluation

Test Case	Test Input	Expected Outcome	Obtained Outcome	Pass/Fail	Tested on
1. Registration	Valid email, username, password	Successfully registered	Successfully registered	Pass	5-8- 2022
2. Login	Login via mobile, pc, tab	Successfully login	Successfully login	Pass	5-8- 2022
3. Passwords	Invalid passwords or blank area	Alert the password. is wrong or if an area is blank.	Show warning	Pass	5-8- 2022
4. Profile setting	Access and update your profile information	Profile details may be seen and updated	Correctly display and update data	Pass	5-8- 2022
5. Blog post	Add title, description and image	Blog posted successfully	Blog posted successfully	Pass	5-8- 2022
6. Comment, Like & Dislike	Comment to any post, like or dislike	Comment, like, dislike added	Comment, like, dislike added	Pass	5-8- 2022
7. Search	Search any keyword in search bar	Show the searched output	Show the searched output	Pass	5-8- 2022
8. Logout	Click logout button	Logout from the user account	Log out effectively	Pass	5-8- 2022

5.4 Test Results and Reports

Test comes about and reports are the crucial portion of an application to legitimize in case the application is ready to dispatch or not. This will be gotten through assessing all the highlights. We need to run different sorts of testing to check the practically works precisely as we expected. There are a few shapes of testing, incorporate as: Regression, Usefulness, and Security Scalability and Performance Interoperability of frameworks and usability Disaster recuperation and globalization Upgrade / Installation. After passing through these tests effectively we will guarantee our application to dispatch. We have tried these through distinctive phones, tablets and pc. At the conclusion, we carried out the results and the benefits of ease of use of testing: Best UI for interaction. Users will discover it basic to use. The framework is basic to explore and search. Application is more promptly acknowledged by users. Good quality of application all through the showcase.

CHAPTER 6

SOCIETY, THE ENVIRONMENT, AND LONG - TERM SUSTAINABILITY

6.1 Society impact

Doctor patient management system (telemedicine) increments get to healthcare for patients who confront obstructions such as separate (particularly those in rustic ranges), transportation, or caretaker accessibility. Immunocompromised patients now not have to be chance securing irresistible diseases. Reduce healthcare costs, improve persistent [9].

Outreach and wellbeing results, and alter the way suppliers treat their patients. This system increments persistent engagement by making a difference them keep up checkup arrangements and care plans. Virtual meetings moreover make it simpler for patients to reach out to their doctors, report early caution signs or any wellbeing concerns, and take after through on their arrangements

6.2 Environment impact

Telemedicine and wellbeing data innovation offer assistance spare time, vitality, crude materials (such as paper and plastic), and fuel, subsequently bringing down the carbon impression of the wellbeing industry. By actualizing green hones, for occurrence, by locks in in carbon credit programs, the wellbeing industry seem advantage monetarily as well as diminish its negative affect on the wellbeing of our planet. Companies that diminish their carbon emanations by executing energy-saving hones can offer their carbon credits to companies that transmit more carbon than passable by their legitimately official commitment. These carbon benefits can at that point be utilized for healthcare investigate or to supply healthcare to the underserved. Alternatively, the reserve funds might be utilized for green acquiring and to actualize other carbonreducing exercises. This report audits the various conceivable alternatives for the American wellbeing industry to ended up greener and lower its carbon impression whereas at the same time getting to be more time- and taken a toll efficient

6.3 Ethical aspect

Taking after moral issues in telemedicine could be an essential viewpoint of high quality services. Consideration to moral issues in telemedicine ensures a more secure utilization of the administrations. Technology, doctor-patient relationship, information secrecy and security, informed consent, patient's and family's fulfillment is highly observed here. A patient can book an appointment, select a preferable doctor, and select a date for consultation. First the patient needs to sign up as a patient or as a user. Then a patient can book an appointment according to his/her demand. User can create a strong password. We have followed all possible ways for a good authentication system throughout the system.

6.4 Sustainability Plan

Better communication with chronically ill patients, more complete and accurate patient information, increased patient ownership of their own care, offer forms and workflows that are simple to utilize and to customize. Guarantee that the entrance is reasonable for suppliers. Make beyond any doubt that the understanding information is versatile so that suppliers can share it with other suppliers. Give framework overhauls to keep the entry up-to-date. We are also looking for a heart disease predictions system that can detect heart issues using machine learning with python. The possible solution for this first we will make the model (colab) save as is. Then use it as a json request from a docker image. If it's possible then this system will be a complete package for a patient to get healthcare services.

CHAPTER 7

CONCLUSION & FUTURE SCOPE

7.1 Discussion and Conclusion

The utilize of telehealth and online Wellbeing benefit have demonstrated to be useful for both patients and suppliers. Patients regularly got to drive to be seen in individual for follow-up arrangements or indeed to inquire questions that may effectively be replied over an Wellbeing app. Giving patients the alternative to seek therapeutic care by interfacing through an app on a web available gadget will not as it were diminish healthcare costs, but moreover diminish the number of pointless visits. Wellbeing apps moreover give the opportunity for patients to be seen by pros that they may not have the alternative to see something else. Wellbeing moreover has the potential to supply helpful, quality benefit to those who may have trouble getting to care something else. For illustration, a single mother with a later determination of Multiple Sclerosis. Attempting to oversee both children, a work, lodging / nourishment, etc. it is effectively justifiable how attending to arrangements may be put on the back burner. Advertising telehealth arrangements through an Wellbeing app would permit her to check in with her supplier, inquire questions, and still be able to care for her family. This would diminish the stretch of driving too/from the arrangement and lost work for said arrangement.

7.2 Scope for Further Development

We confronted numerous challenges amid the improvement handle of this extend. Gratefully we were able to overcome most of the challenges, but we still have a few issues that we could not settle due to restricted time imperatives, mechanical challenges, need of subsidizing and lack of encounter in this field. A few of the impediments are recorded below:..the video calling system need to developed we could not implement that right now cause its a prototype now. so for for some services we need to go through a economical background.we are intend to implement data science in this project. so it can predict on a specific diseas through the symptoms given by a user.

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Faculty of Science and Information Technology
Department of Computer Science and Engineering

Project Documentation Summary Report

(Filled by Supervisor)

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01	Title of the Work. (Checked and correct)	Yes√	No	
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11	Limitations and Conclusions (Exists or not)	Yes√	No	
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I checked all the points mentioned above and hereby recommend this internship for final-defense.

Muly 12, 09, 22
.....

Supervisor Name: **Dr. Moushumi Zaman Bonny**, Assistant Professor,
Department of CSE

Hnt

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