

**DESIGN AND DEVELOPMENT A WEB BASED APPLICATION NAMED  
“FIND YOUR DOCTOR ONLINE”**

**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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**DAFFODIL INTERNATIONAL UNIVERSITY**

**DHAKA, BANGLADESH**

**September 2022**

## **APPROVAL**

This Project/internship titled “**DESIGN AND DEVELOPMENT A WEB BASED APPLICATION NAMED “FIND YOUR DOCTOR ONLINE”**”, submitted by Rizuhana Khanam Shefa, ID No: 182-15-988 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 Bachelor of Science in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 12 September 2022.

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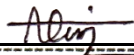
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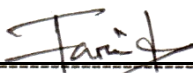
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## DECLARATION

We hereby declare that this project has been done by us under the supervision of **Nadira Anjum Nipa, 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 the award of any degree or diploma.

### Supervised by:



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## **ACKNOWLEDGEMENT**

First, we express our heartiest thanks and gratefulness to Almighty God for His divine blessing making us possible to complete the final year project/internship successfully.

We are grateful and wish our profound indebtedness to **Nadira Anjum Nipa, Lecturer**, Department of CSE Daffodil International University, Dhaka. Deep Knowledge & keen interest of our supervisor in the field of Web Development to carry out this project. His endless patience, scholarly guidance, continual encouragement, constant and energetic supervision, constructive criticism, valuable advice, reading many inferior drafts, and correcting them at all stages have made it possible to complete this project.

We would like to express our heartiest gratitude to Allah and thankful to **Naznin Sultana**, Assistant Professor, Department of CSE, for his kind help to finish our project and also to other faculty members and the staff of the CSE department of Daffodil International University.

We would like to thank our entire course-mate in Daffodil International University, who took part in this discussion while completing the course work.

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

## **ABSTRACT**

The source of all happiness is good health. People in our nation are denied access to health care because they find it difficult to speak with their doctors. They are unable to fully describe every issue. To address this, I created a website where a patient may simply consult a doctor with various levels of inexperience, take their time, and live chat with them. They will be able to administer medication from here. Patients will be free to discuss any issues with the doctor in this manner without any hesitation. Everyone can discuss their physical issues and discover the best solution. Additionally, this website has doctors in every category. Can schedule appointments with doctors in both public and private settings, and they can massage one another. Our very own pharmacy is here. With this approach, the death rate will decline, people will be more conscious of their health, and appointments with doctors won't be as necessary. They freely discuss all issues with the doctor. I created a web-based application with certain useful features that are very user-friendly and that people can use with ease. The application includes numerous experienced doctor accounts that constantly assist people.

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# CHAPTER 1

## INTRODUCTION

### 1.1 Introduction

In the pandemic situation many people did not leave home and they did not get proper treatment for this situation. That's why my web-based project is so helpful for any important situation and as well as any kind of pandemic situation. The System is fully digital. Every person can share their physical problem and find the best answer. Also, you can find every category of doctor on this website. People can Search the doctor by his name and find the best doctor. They also can search the post, comment and reply. Can get appointments from doctors both publicly and privately, they also can message each other. We have our own medicine store. Where anyone can order desired medicine. And the main feature is the system is fully encrypted. A Patient and doctor can message by inbox and this messaging is fully encrypted. It is so secure for a doctor and a patient. At any time, a patient can knock on a doctor and the doctor can reply to them and can solve any kind of problem and give tips and advice to them. People can share their problems on websites by post they can comment and any kind of user can comment on any kinds of post and solve the problem. Basically, the doctor sees the post and he/she can submit a comment and solve the patient's problem at any time. This post always shows the correct time and the doctor can easily reply to them by comments and solve the problems. This website is open in 24 hours and people can get better solutions at any time without cost. It is more time consuming for us and it's helpful for doctors because they can solve the problem of many patients.



## **1.2 Motivation**

Delivering high-quality services at affordable prices is a primary priority for healthcare companies (hospitals, medical facilities). Hospital information systems are now used by the majority of hospitals to manage patient data or healthcare activities. Large amounts of data are frequently produced by these systems in the form of statistics, text, charts, and images. These data represent a wealth of untapped, secret knowledge that is primarily hidden. How can we simultaneously offer better healthcare options to everyone on the planet? is an important query brought up by this. That is the main impetus behind the project.

## **1.3 Objectives**

Every project has some main objectives I have also some objectives such as:

- Ensure Primary Treatment
- Spread awareness
- Find doctor easily
- Find rare medicine
- Change the medical system digital easy & secure

## **1.4 Expected Outcome**

The expectation from this web application is discussed below in short:

1. Death rate will be decreased
2. People will be aware.
3. People can take suggestions from doctors from anytime anywhere.
4. Easily people will get a perfect doctor
5. Even doctor also can use this system to knowing various kind of problem which are faced by people everyday

## **1.5 Report Layout**

This project report has been prepared using six different layouts:

Chapter 1: The first chapter “Introduction” covers the following topics Introduction, Motivation, Objectives, and Expected Outcomes.

Chapter 2: The second chapter “Background” discusses the Terminologies, Related Works, Comparative Studies, Scope of the Problem, and Challenges that are related to previous works in this field.

Chapter 3: In this section, “Requirement Specification” explores the Requirement collection and Analysis, Tools and Software.

Chapter 4: In the fourth chapter, “Design Specification” covers UML diagram, Use Case Diagram front-end development, interface.

Chapter 5: Dataset implementations, front-end interactions, test outputs, and reports all of these five concepts are explored in the fifth chapter.

Chapter 6: In the sixth chapter “Conclusion and Future Scope” discussion and conclusion and scope for future development are explained. This is the last section of the report.

## CHAPTER 2

### BACKGROUND

#### 2.1 Terminologies

People in today's computerized culture demand all of their tasks to be automated with a high level of efficacy and efficiency. People desire to save time, energy, and simplify their tasks as much as possible. Developers have now created a web-based application to make things easier. Developers have created comparable web sites in recent years to speak with doctors for many types of problems, and they have also solved them. Similar type of application we can see online but they have not enough feature. They have some limitation and they cannot developed buy medicine at a time in their website.

#### 2.2 Related Works

##### 2.2.1 Just Answer -Mental Health Hotline:

This web site we can sent only message the doctor (Psychiatrist) and find the solution in different kinds of mental health but there is no option in appointment with doctor we cannot post this web page and doctor also cannot post the web page.

##### 2.2.2 Sebahar

This website mainly use for Telemedicine and Video Conference with doctor there also has a doctor profile and also some hospital information. They have also a blog that is called “Sheba Blog

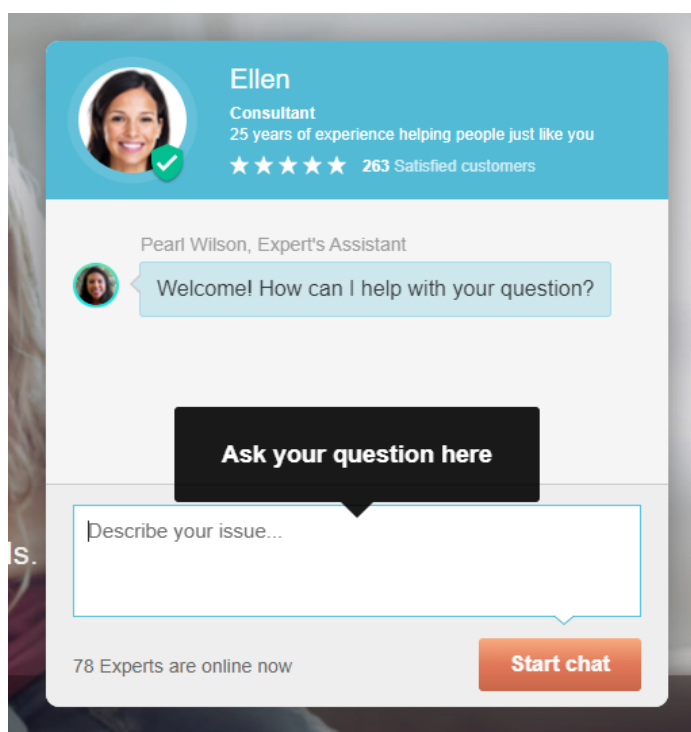


Figure 2.2.1: Ask your answer

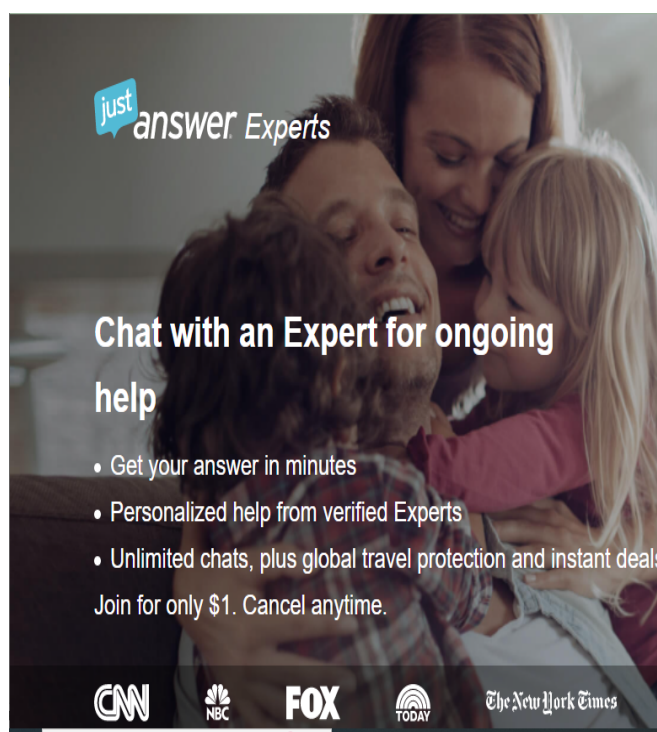


Figure 2.2.2: Chat with an expert

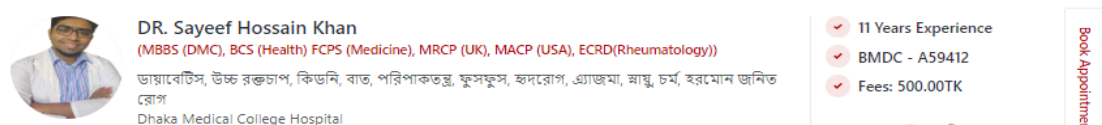
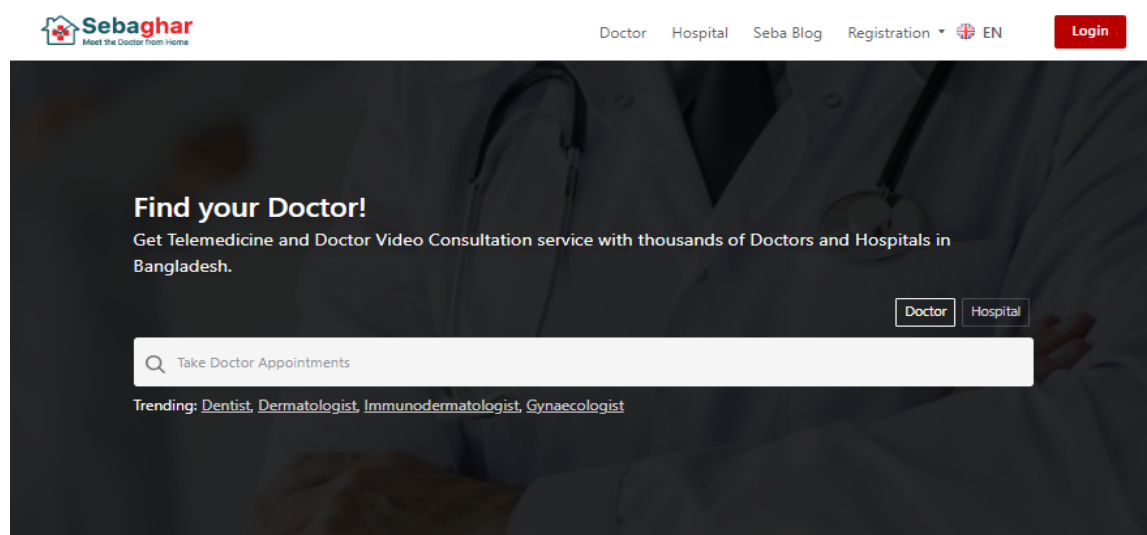


Figure 2.2.3: Sebaghar Home interface

### 2.3 Comparative Studies

We noticed various comparable types of websites to compare with ours and attempted to address these issues as much as feasible on my website. They provide good service; however, their systems have several drawbacks from the perspective of users. The following is the result of the "Just Answer" comparison study.

Table 2.1: My Website and Related Website

Mobile Application	Name	Key Features	Pros and Cons
Related	Just answer	We can communicate by massaging. They solve the problem 24/7	1. There is no option in appointment with doctor 2. we cannot post this web page and doctor also cannot post the web page.

Our System	“Stay Home Be Safe and Find Your Doctor Online”	User-friendly, easy to use for doctor as well as patient	<ol style="list-style-type: none"> <li>1. This system is easy to use and user-friendly.</li> <li>2. Doctor and Patient can post the website.</li> <li>3. They can Massaging each other.</li> <li>4. Budget-friendly</li> </ol>
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## 2.4 Scope of the Problem

During the development of the website, we encountered a number of challenges, which are listed below:

To implement the massaging option securely.

To design the UI of the Website.

To Design the database.

To create the post timely and show it.

To make user friendly.

## 2.5 Challenges

We conducted study prior to developing this website in order to identify potential roadblocks.

### 2.5.1 User Friendly

Our primary goal was to create a tool that was user-friendly and simple to use. In our system, there are many features. Doctor and Patient can post the web page easily and they also comment that post each other in an easy way. Information of the experienced doctor. Users can get the appointment from the doctor very easily. All of the buttons and icons are familiar to the user.

### 2.5.2 Communication with doctor by secure messaging

It's a big challenging issue for me to secure massaging. I have faced some problems to develop the massaging option securely, then I fixed the bug and finally developed a secure messaging option for doctor and patient

### 2.5.3 Create post, Delete post and Comment section:

A user can create a post and update a post and also, he/she can delete the post they can comment in the comment box at any time and important question answers are given by the doctor by comment but showing the accurate time in the post is very important finally I fix the challenge.

#### **2.5.4 UI Design**

I am always focused on user-friendly UI design but, in that time, I have some challenges. All users of my site are not well educated, which is why we focus on very user-friendly UI design.

#### **2.5.5 Collecting Information from Doctor:**

In this site there are many special and experienced doctors in different areas. We have to collect the doctor's valid information and it is also challenging work.

#### **2.5.6 Overview**

For developing my whole project, it has some process. Users need to follow some steps to use the website. Firstly, the user must be registering the site and then he/she login the website then he/she can say some feature like he/she can post their opinion and also add comments and delete. Here they can see some very experienced and specialized doctors and their information. Doctors also need to register him as a doctor option and also fill-up some valuable information. Patients can post different kinds of disease in the post option and specialized doctors reply to them and solve the problem in the comment section. Moreover, patients and doctors can message personally in inbox messaging they can also get appointments from the doctor via SMS

#### **2.5.7 Doctor Information and Search Option:**

Here we can add different kinds of specialized and Experience doctor and their information. Patient can search them and find the best doctor for his treatment. Patient also can search all kinds of post and comments.

#### **2.5.8 Post Option**

Any kind of user can post the post box and especially patients post their disease for finding the solution. Time is visible perfectly. Patients ask or get suggestions for any kinds of disease information and experienced people also reply in the comment section.

#### **2.5.9 Comments option**

Any kinds of user can comment of any kinds of post and they can find the answer of the any kinds of question based of disease. Patient can comment and doctor also reply them and patient gets the solution.

### **2.5.10 Messaging Feature**

A patient can give a personal message in the doctor inbox and they can communicate with each other and also patients can get appointments from doctors by messaging. This system is very secure for doctors as well as patients.

### **2.5.11 Social Media Information**

We can use our social media information in this site we can update the information and delete the information by using our social media like Facebook, Instagram, Twitter, Telegram, Github

## CHAPTER 3

### Requirement Specification

#### 3.1 Requirement Collection and Analysis

The abilities that a product must have in order to satisfy my project's need to address a problem are known as requirements. I had to outline all of my project's needs before I could start creating it. In my website "Find Your Doctor in Online" use for patients and doctor communication in this work we have completed analysis data from patient and doctor information. Doctor always focusses on actively reply in any kinds of post and solve the problem. Also, we analysis doctors' valuable information.

#### 3.2 Tools and Software

##### 3.2.1 Visual Studio

Visual studio code is known as VS code. It is a free open-source text editor. We can use it windows,linux,macOS.It has different kinds of features that is why it is so much popular for development environments.

##### 3.2.2 Python

The general-purpose programming language Python is widely popular and has numerous uses. High-level data structures, dynamic type, and dynamic binding are just a few of the features that make it suitable for writing complex programs as well as scripting, or "glue code," that connects various components. It can also be improved to run C or C++ code and call system functions on almost any operating system. Python is a widely used language that may be used in a variety of applications and is compatible with practically any system architecture.

##### 3.2.3 Django

Django is a python-based web application framework. It is open source and free. A web framework is a collection of components that make it easier and faster to create websites.

##### 3.2.4 JavaScript

JavaScript is a flexible programming language that may be used for a variety of projects, including the development of internet apps, games, and other things. It allows webpages to have dynamic features that aren't available with just HTML and CSS

##### 3.2.5 Bootstrap

Building websites and online apps uses the free and open-source front-end programming framework known as Bootstrap. The HTML, CSS, and JavaScript-based Bootstrap framework makes it simpler to create responsive, mobile-first websites and apps (JS).

##### 3.2.6 HTML

HTML known as Hypertext markup language. It's made up of web designers' terms and commands for building websites.



### **3.2.7 CSS**

They go by the term CSS, or cascading style sheets. It is a language for style sheets that is used to specify the appearance and formatting of a markup page. It expands HTML's potential.

### **3.2.8 SQLite database**

A software library with relational database management capabilities is called SQLite. The word "lightweight" refers to SQLite's setup, database administration, and resource requirements. Some noteworthy characteristics of SQLite include the following: transactional, serverless, self-contained, and zero-configuration.

# CHAPTER 4

## Design Specification

### 4.1 UML design

UML diagrams are required for application maintenance and development. An object-oriented program's structure and logic can be depicted using a UML diagram. In the field of software engineering, the UML diagram is also utilized as a general-purpose modeling language. On our project, we employ many sorts of UML diagrams to construct use case diagrams. It aids in the development of our application as well as the analysis of system requirements.

#### 4.1.1 Use case

In figure 4.1.1. Use case diagrams are crucial to every project, thus we must design them before starting one.

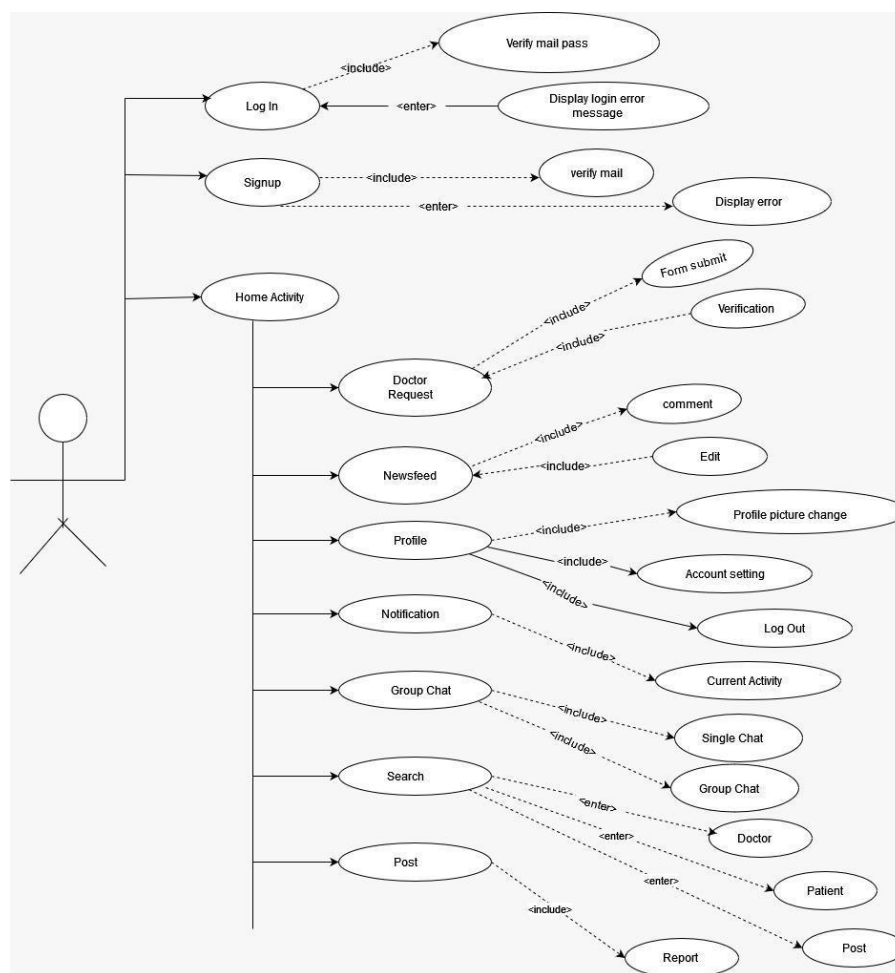


Figure 4.1.1 Use case Diagram

## 4.2 Front End Design

### Splash Screen

Here is the splash screen of my project. The following figure shows splash screen.

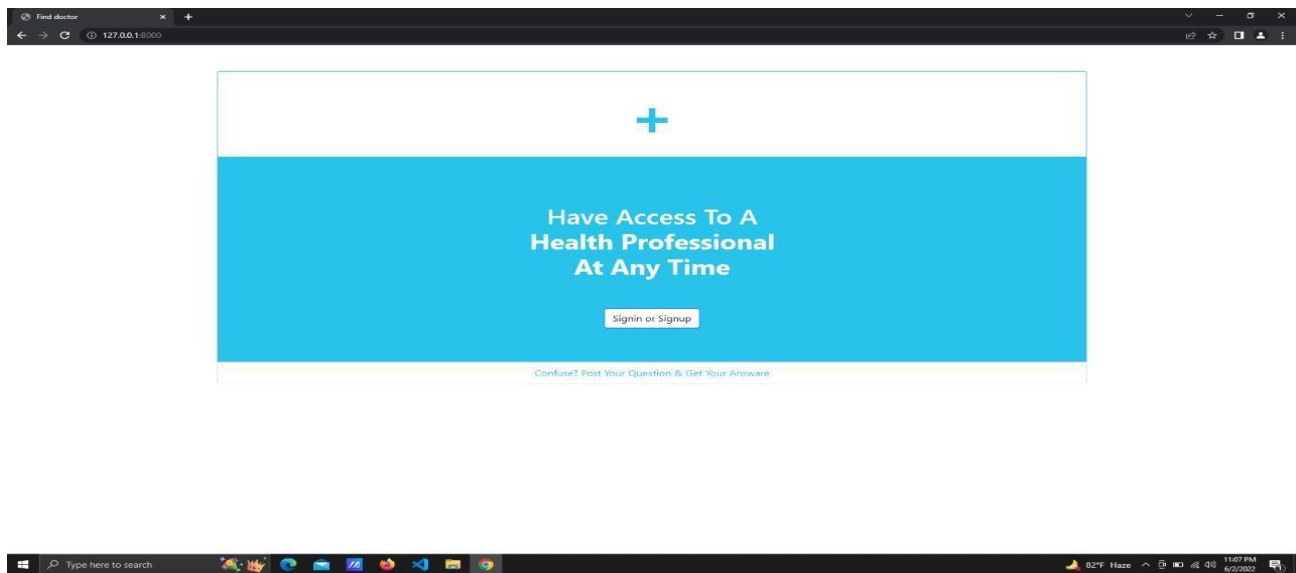


Figure :4.2.1 Splash screen

### Login Form

Here is the login form firstly a user must have to log into it with his/her username and password he/she has no account then he/she has to register the site. Figure login is given.

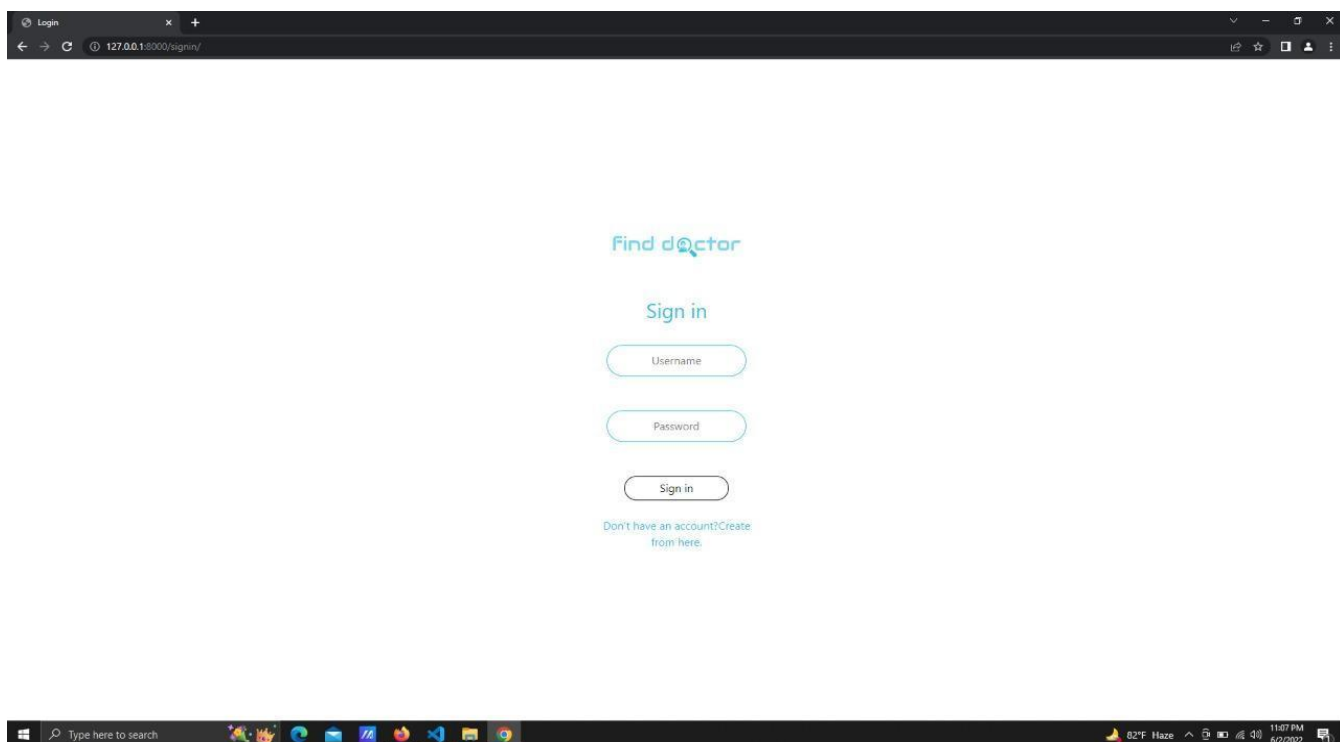
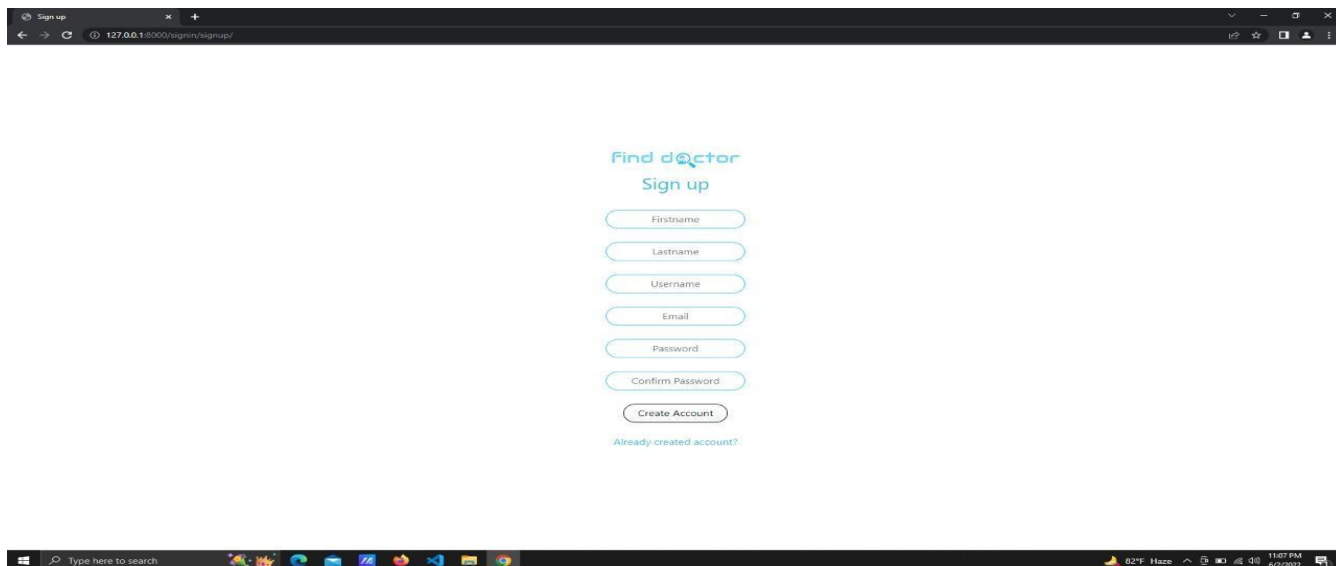


Figure :4.2.2 Login

## Signup Form

Here is the registration form, which must be filled out in full before you may see our home page. The illustration signup is shown below.



The screenshot shows a web browser window with the URL 127.0.0.1:8000/signup/signup/. The page features the 'Find doctor' logo and a 'Sign up' heading. Below the heading are several input fields: Firstname, Lastname, Username, Email, Password, and Confirm Password. A 'Create Account' button is positioned at the bottom of the form, with a link for 'Already created account?' below it.

Figure:4.2.3 Signup

## Home Page

This is the home page of my project. Here we can post any information, we can comment in any time also in reply. Moreover, we have the ability to pick what we wish to do. The figure home interface has been given below.

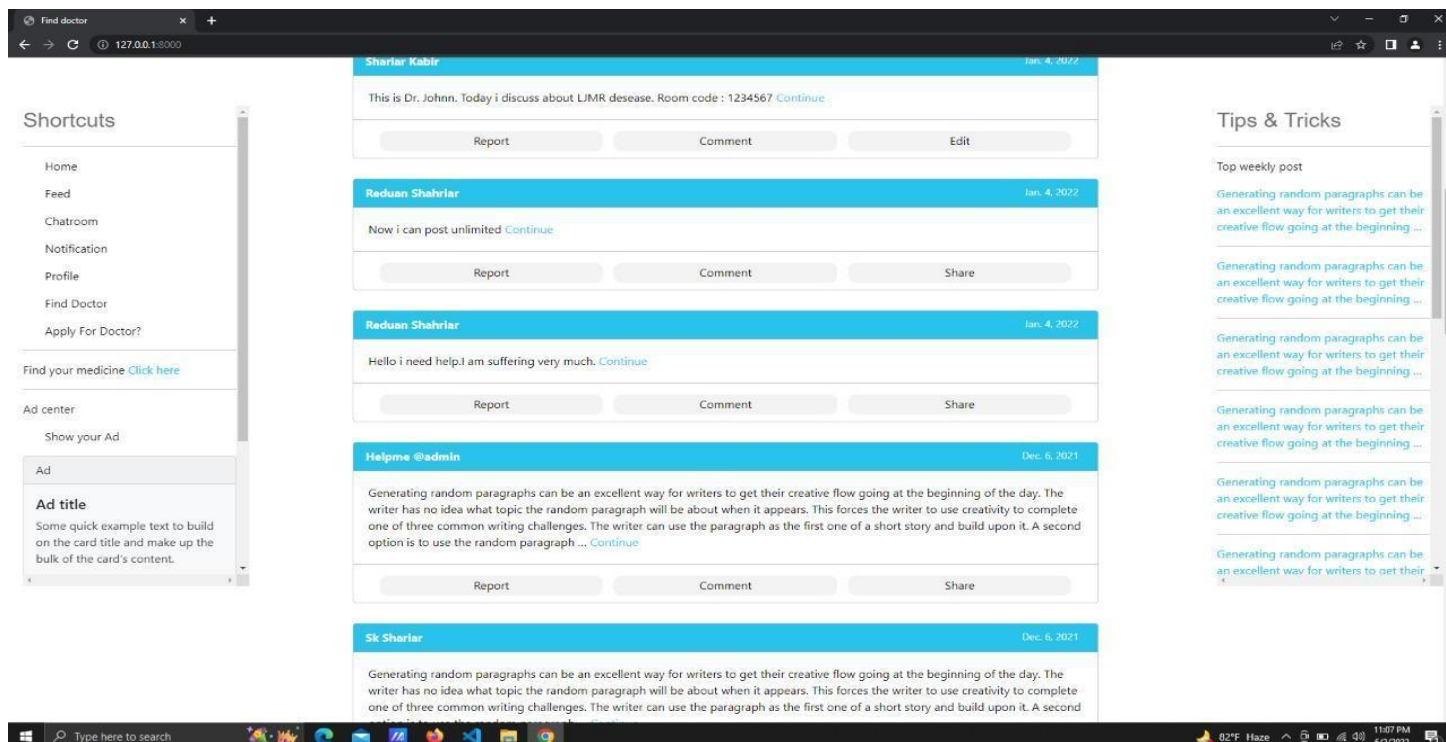


Figure: 4.2.4: Home interface

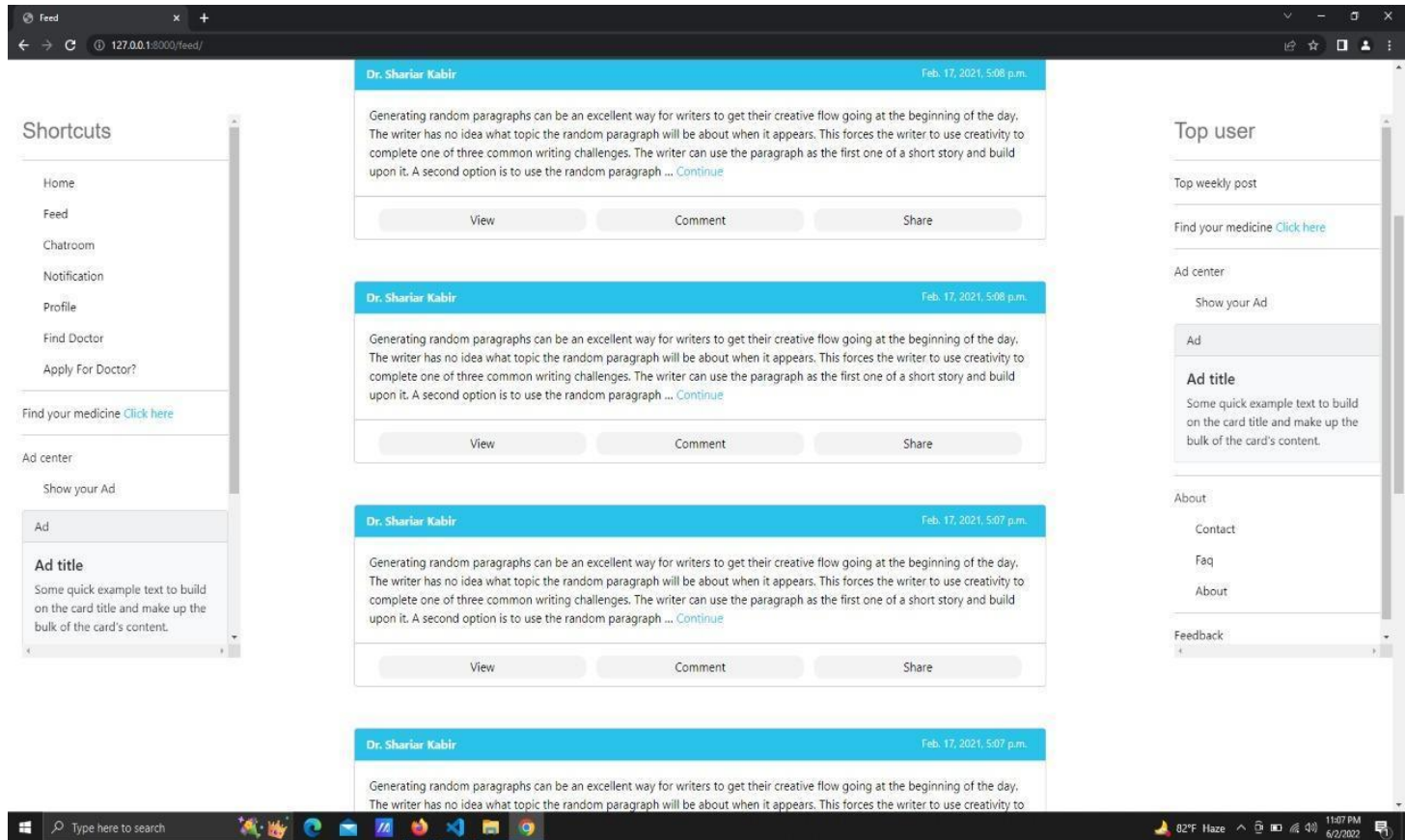


Figure 4.2.5 Home interface

### Comment in a post

We can comment on any kinds of post and share our opinion. Mainly a patient asks a question and doctor give the reply in the comment section. The figure comment section is shown below.

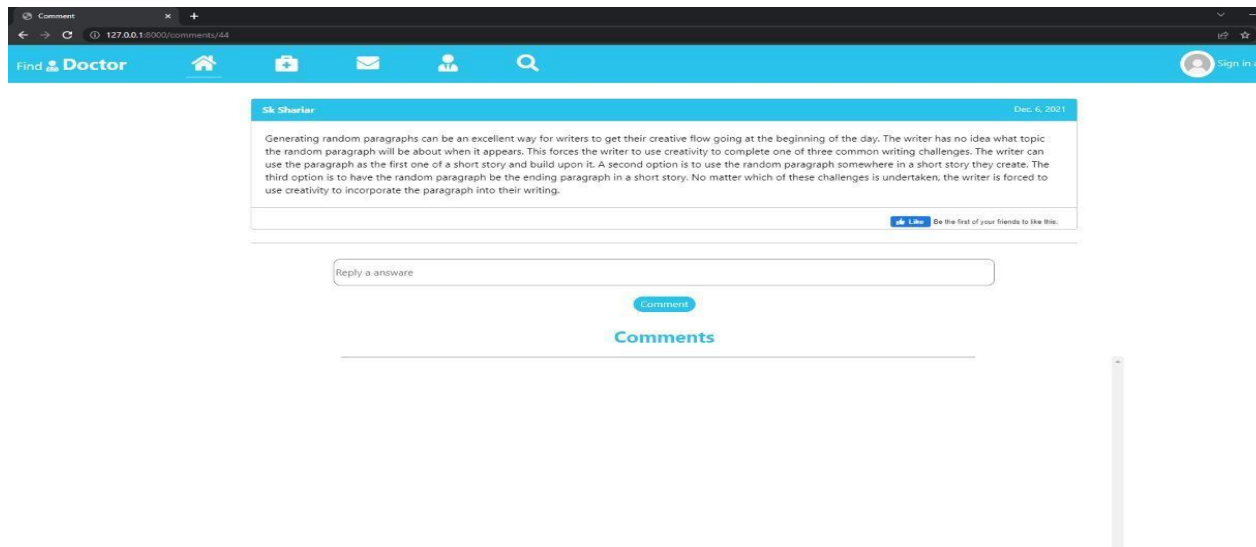


Figure :4.2.6 comment section

## Apply for doctor

To apply for a doctor at this place, go to the administrative panel. This part of the information is useful and significant. The illustration for the doctor is shown below.

The screenshot shows a web browser window with the URL `127.0.0.1:8000/profile/apply_for_doctor/`. The page title is "Apply For Become A Doctor". The form contains the following fields:

- Name: Shariar Kabir
- Email address: shariarkabir13@gmail.com
- Phone: (empty)
- Address: (empty)
- Graduated University/Running University: (empty)
- University ID: (empty)
- Nid: (empty)
- Category: Medicine Specialist

A blue "Submit" button is positioned below the form fields.

Figure :4.2.7: Apply for the Doctor

## Join a Chatroom

A Patient and doctor can inbox messaging in any time for better treatment. Fig. chatroom is shown below.

The screenshot shows a web browser window with the URL `127.0.0.1:8000/chat/`. The page title is "Join a chatroom?". The form contains the following elements:

- Input field for room ID: (empty)
- Note: "Your room ID should be characters letter & numbers."
- Blue "Join" button

Figure :4.2.8 Chatroom

## Search Doctor

In figure: 4.2.9 we can see search option. User can Search the target doctor they are the experienced.

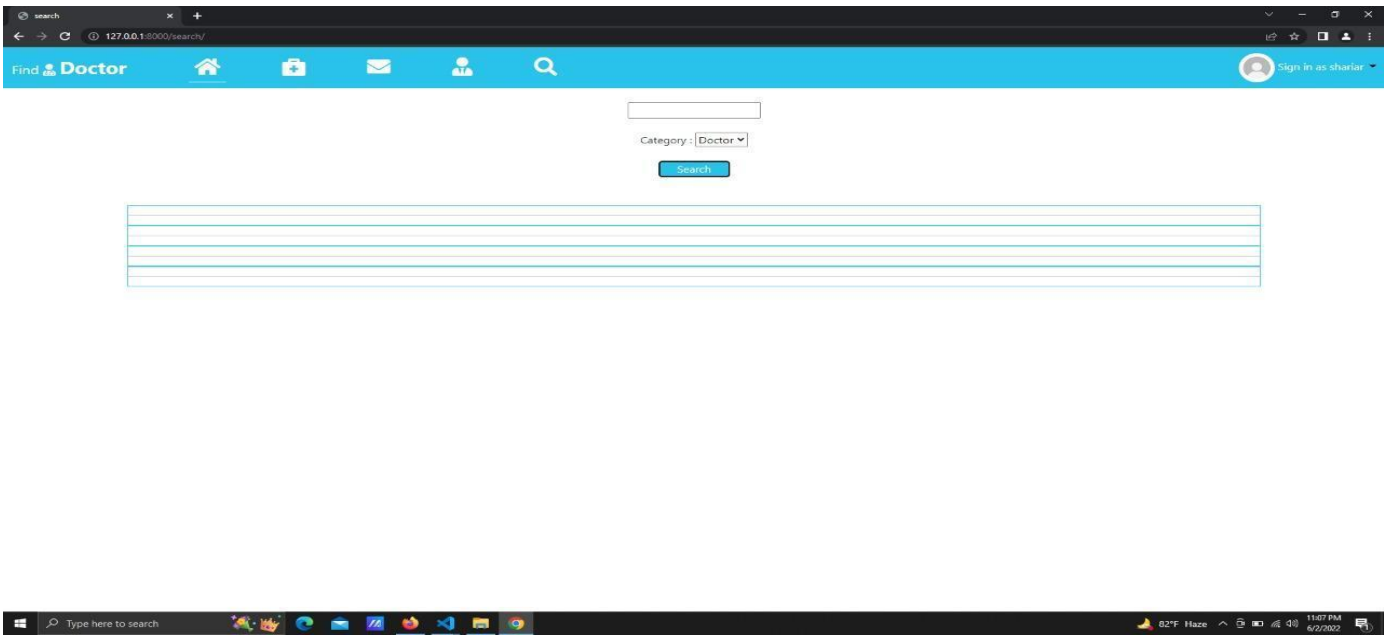


Figure :4.2.9 Search Option

## Doctor Appointments

The user can write down their problems and view the time and date of their appointments. The figure appoinments is shown below.

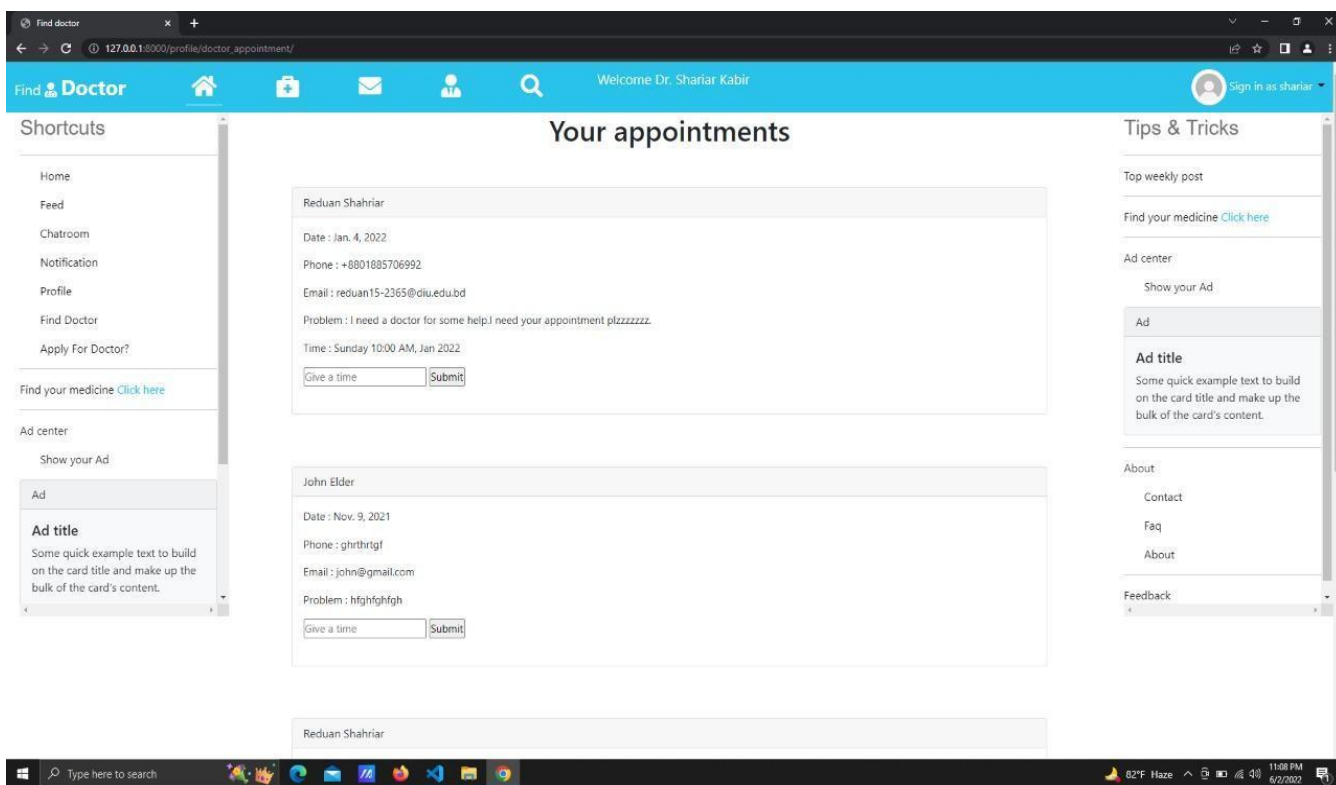


Figure: 4.2.10 Appointments

## Medicine

Here is a medicine corner. Users can buy important medicine on the website. Figure medicine is given

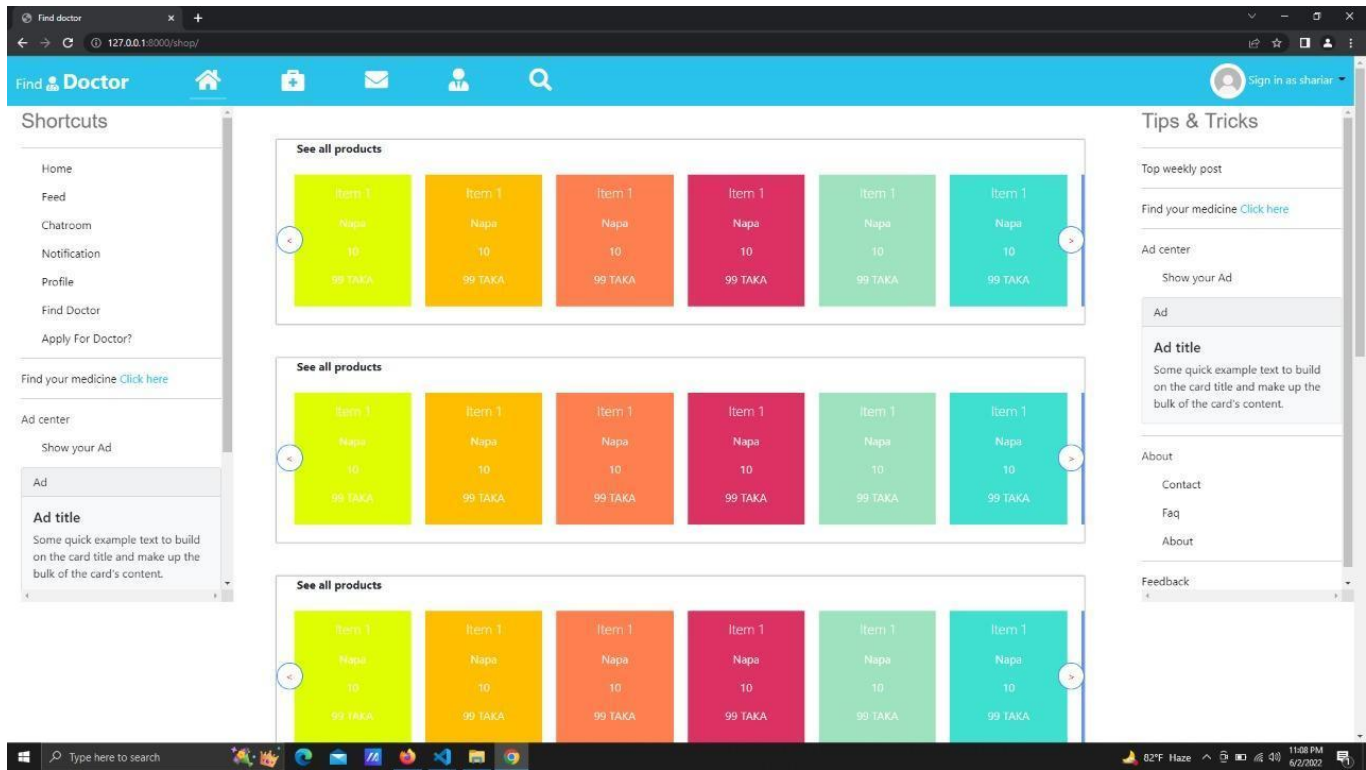


Figure: 4.2.11Medicine

### Edit your info

Users can edit /her information. He/she reset his/her password. The figure edit information has been given below

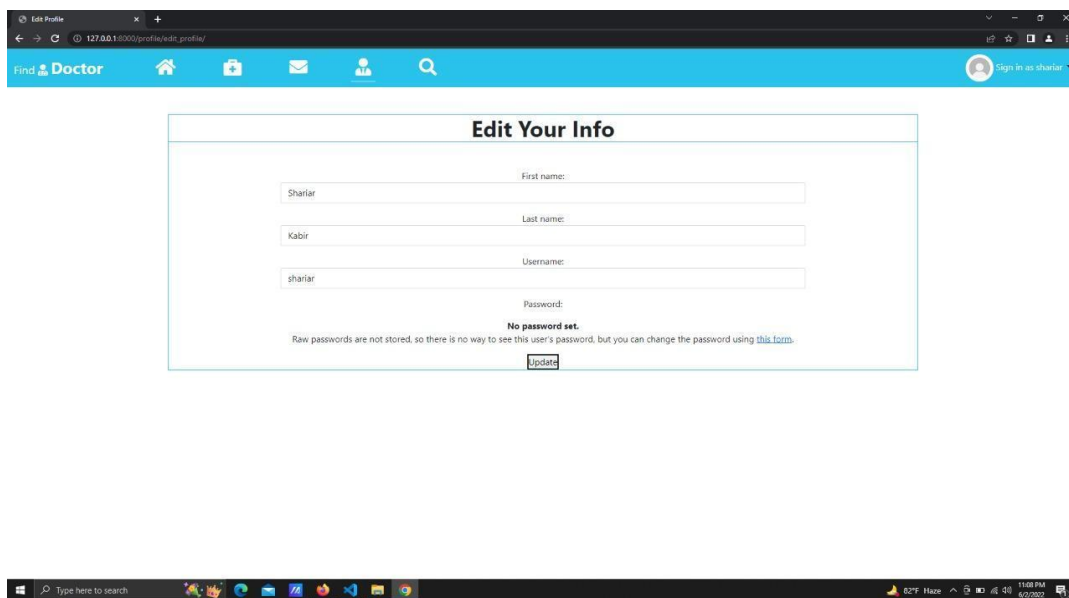


Figure :4.2.12 Edit Information

### Upload Profile Picture

The figure upload profile picture has been given below

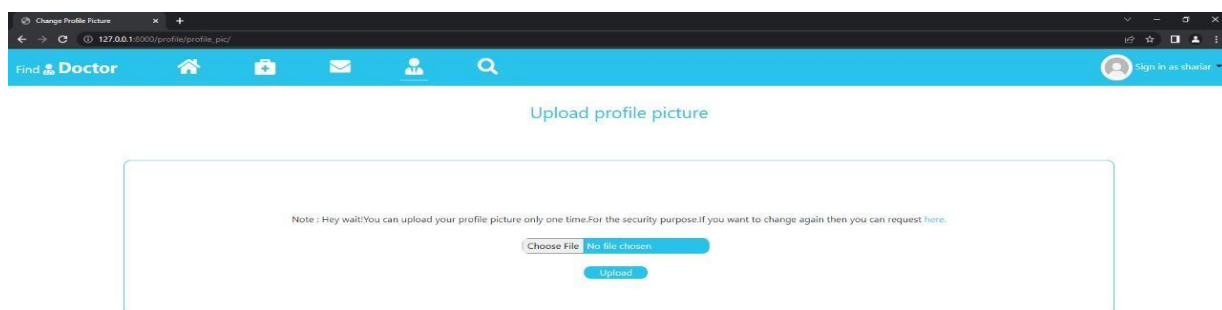
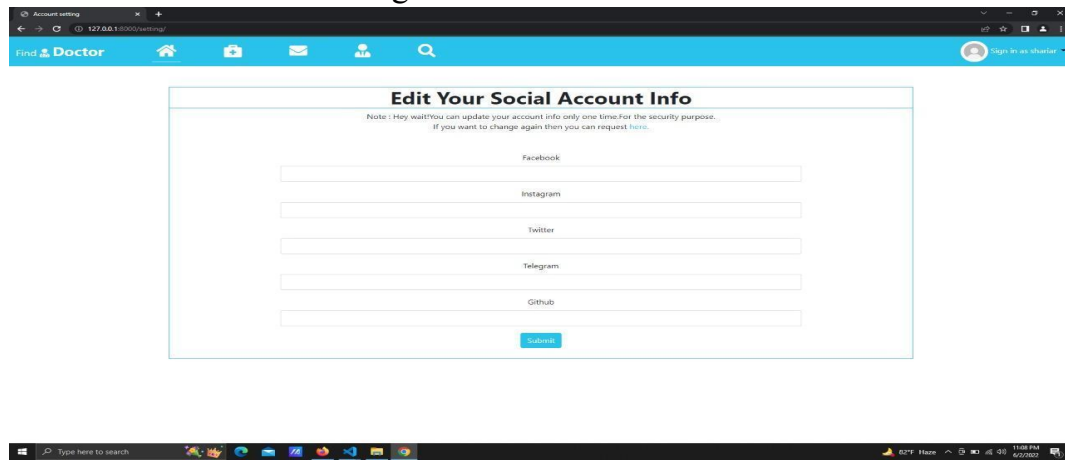




Figure :4.2.13 Upload Profile Picture

## Edit by Social Account Info

The figure social account info has been given below



The screenshot displays a web browser window with the URL '127.0.0.1:8080/setting/'. The page title is 'Edit Your Social Account Info'. A note states: 'Note: Hey wait! You can update your account info only one time for the security purpose. If you want to change again then you can request here.' Below the note are five input fields for social media accounts: Facebook, Instagram, Twitter, Telegram, and Github. A 'Submit' button is located at the bottom of the form. The browser's address bar shows 'Find Doctor' and a search icon. The Windows taskbar at the bottom indicates the time is 11:58 PM on 6/22/2022.

Figure :4.2.14 Social Account Info

# CHAPTER 5

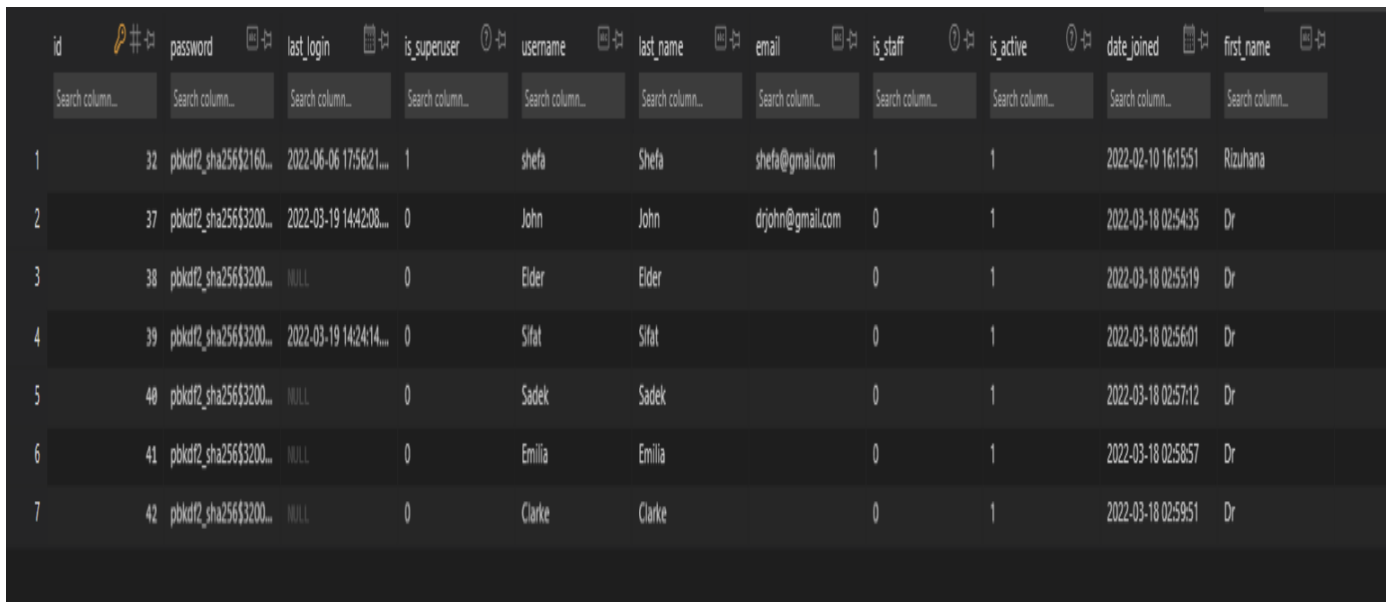
## Implementation and Testing

### 5.1 Database Implementation

The database plays a significant role in everyday life. Any kind of web-based project is essential to my project. In order to implement background tasks, I worked on the SQLite database. Registered user data, user posts, user comments, and user messaging are all stored in my project store. All of the information is crucial for my project.

#### 5.1.1 Authentication

First of all, we need users who are uses my website and for use he/she has to be registered in my website. The figure is given below this is the registered user information they are sign in my website. Authentication list. In figure authentication data below:



id	password	last_login	is_superuser	username	last_name	email	is_staff	is_active	date_joined	first_name
1	pbkdf2_sha256\$32160...	2022-06-06 17:56:21...	1	shefa	Shefa	shefa@gmail.com	1	1	2022-02-10 16:15:51	Rizuhana
2	pbkdf2_sha256\$3200...	2022-03-19 14:42:08...	0	John	John	drjohn@gmail.com	0	1	2022-03-18 02:54:35	Dr
3	pbkdf2_sha256\$3200...	NULL	0	Elder	Elder		0	1	2022-03-18 02:55:19	Dr
4	pbkdf2_sha256\$3200...	2022-03-19 14:24:14...	0	Sifat	Sifat		0	1	2022-03-18 02:56:01	Dr
5	pbkdf2_sha256\$3200...	NULL	0	Sadek	Sadek		0	1	2022-03-18 02:57:12	Dr
6	pbkdf2_sha256\$3200...	NULL	0	Emilia	Emilia		0	1	2022-03-18 02:58:57	Dr
7	pbkdf2_sha256\$3200...	NULL	0	Clarke	Clarke		0	1	2022-03-18 02:59:51	Dr

Figure:5.1.1 Authentication data

#### 5.1.2 Database List

In my project uses of some databases in SQLite and it is so much important for my project.

Database list are given below and then next one is implementation. Figure database is given:

<b>Groups</b>	<b>+ Add</b>
<b>Users</b>	<b>+ Add</b>
<b>POST</b>	
<b>Anss</b>	<b>+ Add</b>
<b>Chats</b>	<b>+ Add</b>
<b>Comments</b>	<b>+ Add</b>
<b>Contact_form_models</b>	<b>+ Add</b>
<b>Doctors</b>	<b>+ Add</b>
<b>Feedbackss</b>	<b>+ Add</b>
<b>Feedss</b>	<b>+ Add</b>
<b>Posts</b>	<b>+ Add</b>
<b>Profile_pictures</b>	<b>+ Add</b>
<b>Social_media_accounts</b>	<b>+ Add</b>
<b>SITES</b>	
<b>Sites</b>	<b>+ Add</b>
<b>SOCIAL ACCOUNTS</b>	
<b>Social accounts</b>	<b>+ Add</b>
<b>Social application tokens</b>	<b>+ Add</b>
<b>Social applications</b>	<b>+ Add</b>

Figure:5.1.2 Database

### 5.1.3 Post Data

In my site user can post and comment and also, they reply each other the information is id, date, status, author\_name,author\_email,post\_author the figure post database is given below.

id	status	date	author_name	author_email	post_author
1	84 Hello I Am Shefa. I A...	2022-06-06 18:04:20...	Rizuhana Shefa	shefa@gmail.com	shefa

Figure:5.1.3 Post Database

### 5.1.4 Profile Picture Data

A user can change her profile picture in any time and my database also save it. In figure profile data

id	profile_picture	user_profile_pi
1	4 shariar	profilepicture/sk.jpg
2	5 sk	profilepicture/sksk.jpg
3	6 admin	profilepicture/sksksk...
4	8 sefat	profilepicture/11116...

Figure:5.1.4 Profile data

## 5.2 Testing

### 5.2.1 Test the site Navigation for Usability testing

Table 5.2.1: Test the Site Navigation

Test Case	Test Data	Result
Home	Checking multiple display size	Work flawlessly
Email	Check fake and real email	Work flawlessly
Post	Checking multiple display size	Work flawlessly
Message	Checking multiple display size	Work flawlessly
Notification	Checking multiple display size	Work flawlessly
Search	Checking multiple display size	Work flawlessly
Profile	Checking multiple display size	Work flawlessly

### 5.2.2 Test the Content

Table 5.2.2: Test the Content

Test Case	Test Data	Output
Images	include "alt" text	Work flawlessly
Content	Easily readable and error-free	Work accurately

### 5.2.3 Website Interface Testing

Table 5.2.3: Website Interface Testing

Test Case	Test Data	Output
Client to Server	Client to server connect successfully	Work accurately
Server to client	Server to client connect successfully	Work accurately

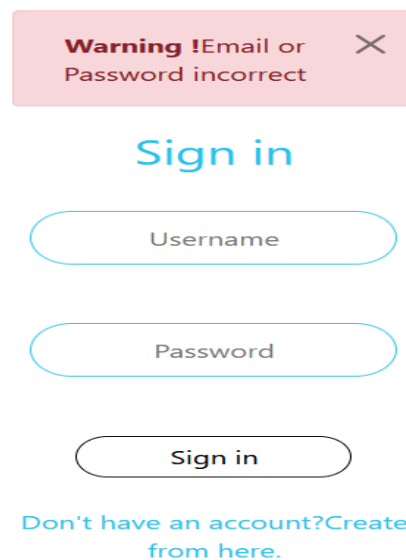
## 5.2.4 Crowd Testing

Table 5.2.4: Crowded Testing Of website

Test Case	Test Data	Output
Website	Server response accurately the same for all clients	Work flawlessly
Crash Occurrence	Due to overload server crash does not occur	Work flawlessly

## 5.2.5 User Validation

This component signifies that a user cannot access the website without first completing the registration process. Only after completing the registration process will a user be able to successfully log in and use the website.

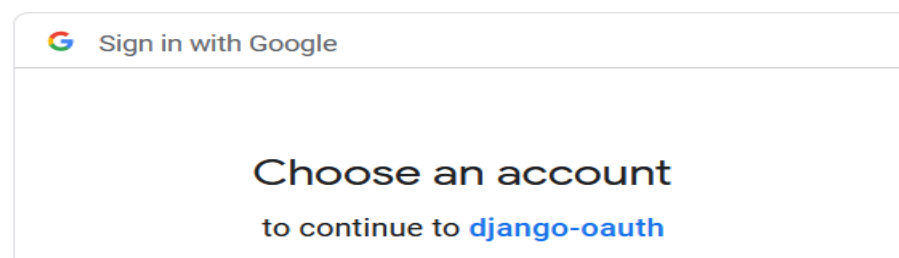


A screenshot of a user validation form. At the top, there is a red warning message box that says "Warning !Email or Password incorrect" with a close button (X). Below the warning, the text "Sign in" is displayed in blue. Underneath, there are three input fields: "Username", "Password", and "Sign in". At the bottom, there is a link that says "Don't have an account? Create from here."

Figure 5.2.5: User Validation

## 5.2.6 Email verification

Gmail verification system automatic verify the Email. (Django-oauth).In figure Email verification is given below:



A screenshot of an email verification form. At the top, there is a header that says "Sign in with Google" with the Google logo. Below the header, the text "Choose an account to continue to django-oauth" is displayed in blue.

Figure 5.2.6: Email Verification

## CHAPTER 6

### Conclusion and Future Scope

#### 6.1 Conclusion

We can't always communicate with the doctors because they can't give us much time so we are often deprived of medical treatment. We can't solve our minor problems or big problems without visiting them. And important. In any pandemic situation, we will be able to present our problems to the doctor while sitting at home. Our time will be much less and we can solve our problem by finding our actual doctor. When we are far away, it is costly for us to talk to the doctors so we can communicate with them all the time through message and we can easily point out our problems. Our website will play an important role for our country. It would play a very important role in our statistics of public health. Most importantly, it will consume our time and help in better treatment.

#### 6.2 Future Scope

While doing a real-life project we keep a consistency and maintain a sequence and at one point the project is complete but there are opportunities that we can't do on time, and due to the advancement of technology we have to add something new basically that is the future update. Yes, and some new problems are solved. We also have some future plans like:

- To Develop Very securely group messaging
- To develop packaging system in user post (gold, silver)
- To Develop buy and sell medicine perfectly
- To create a medical online delivery system

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## **APPENDIX A: PROJECT REFLECTION**

I began my career in website development, which piqued my interest in solving real-world problems. We meet various problems in our daily lives, and we solve them. I finish my design first, then move on to the back end to tackle the problem. I make use of a variety of new and improved technology. In a nutshell, my entire adventure was incredible, and with the support of my teacher, we were able to complete my assignment.



# PLAGIARISM REPORT

DESIGN AND DEVELOPMENT A WEB BASED APPLICATION  
NAMED "Find your doctor online"

## ORIGINALITY REPORT

<b>15</b> %	%	%	<b>15</b> %
SIMILARITY INDEX	INTERNET SOURCES	PUBLICATIONS	STUDENT PAPERS

## PRIMARY SOURCES

<b>1</b>	Submitted to Daffodil International University Student Paper	<b>12</b> %
<b>2</b>	Submitted to Loughborough University Student Paper	<b>1</b> %
<b>3</b>	Submitted to The British College Student Paper	<b>1</b> %
<b>4</b>	Submitted to Engineers Australia Student Paper	<b>&lt;1</b> %
<b>5</b>	Submitted to Laureate Higher Education Group Student Paper	<b>&lt;1</b> %
<b>6</b>	Submitted to Roehampton University Student Paper	<b>&lt;1</b> %
<b>7</b>	Submitted to Green University Of Bangladesh Student Paper	<b>&lt;1</b> %

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