DELIVERABLE 3

a) Report Requirements:-

List a set of requirements designated for phase 1.
There are no changes from the deliverable-2 requirements, but an elaborate explanation of requirements has been given to the phase 1.

Functional and Non-Functional Requirements of PHASE-I:

a) Functional Requirements:

- The Functional Requirements for phase-1 are as follows:
- An admin can login into his account by entering his credentials.
- A doctor can create an account with his qualifications, address, experience, certificates etc. and can login to the doctor's point of view page.
- A patient can register on to website by providing the details asked.
- A better user interface is provided to the users.
- The information about the website is provided on the about modules

b) Non-Functional Requirements:

The Non-Functional Requirements for the phase-1 are as follows:

- The user interface design should be precise and easily understandable so that, the users can easily navigate to their requirements without much effort.
- Security is provided by allowing the users to access the site with a stronger password, so there won't be any hacking issue.
- The server has to run 24/7 without any interruption caused.
- The details of the users are maintained highly private and there will be no sharing of the details at any cost. If needed to share, consent from the user is required.
- If any fraudulent activities are done by the user, the admin detects them immediately and takes the possible required action.

c) Interfaces

1. When the site is opened, it shows the home page which contains a brief description of the website and the modules like Home, about, contact and logins.
2. In this phase we are working on the about and logins page for admin, doctor and Patient. The website consists of four different user logins such as admin, doctor, Patient, and Pharmacy.
3. If the user is an admin, he/she clicks on the admin login menu. Here the admin gives his credentials and clicks on the sign in button. If the admin username/password is correct, then it redirects to the admin home page.
4. If the user is a doctor, he/she clicks on the doctor login menu which redirects to the login page for doctors. If the doctor already has an account, he/she can directly enter their credentials, which takes them to doctor's home page else for creating a new account he/she has to register with their details on the registration page and follow the same procedure as login. The data of the doctor gets stored in the database.

5. If the user is a patient, then he/she clicks on the patient login menu. It redirects to the login page for patients. If the patient already has an account, then they can use their credentials and login into the website else they need to create an account by entering the required details like name, mobile, etc. and follow the same procedure for the login.
6. All users can logout which redirects them back to the homepage.

System Requirements

1. **Hardware Requirements:**
   - Processor: Intel i7
   - RAM: 8 GB
   - HD : 400 GB

2. **Software Requirements:**
   - IDE : Eclipse latest
   - Front-End Technologies: HTML, CSS, JavaScript and JSP
   - Back-End Language: Java
   - Back-End Database: MySQL
   - Web Server: Apache tomcat 9
   - Bootstrap

Eclipse IDE is used for developing this project.

Html, CSS used for design of web pages.

JavaScript used for client side form data validation, for example username is more than 6 letters or not.

JSP[Java Server Pages] which contain both html and java code therefore it acts as front end and back end.

Java is back end language which is used for implementing business logic of all web pages. Java reads data from html forms and stores or gets data from MySQL database.

MySQL is a database server which stores data of website.

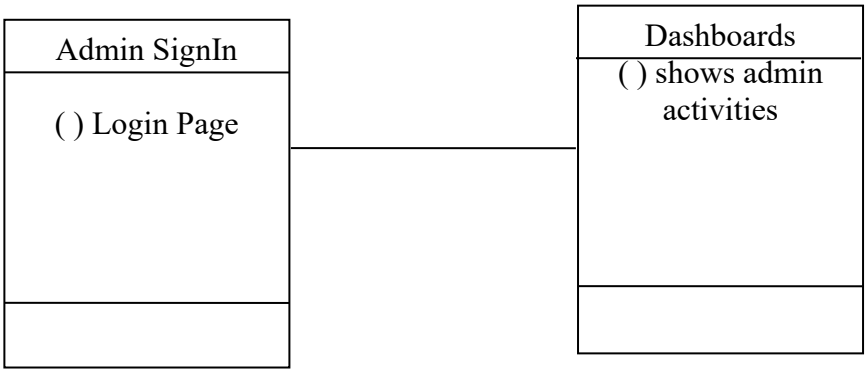
Apache tomcat is a webserver where the website is present. It is actual one which takes requests from client(browser) and sends response to client.

Bootstrap is a predefined frame work which is used to design responsive web pages.

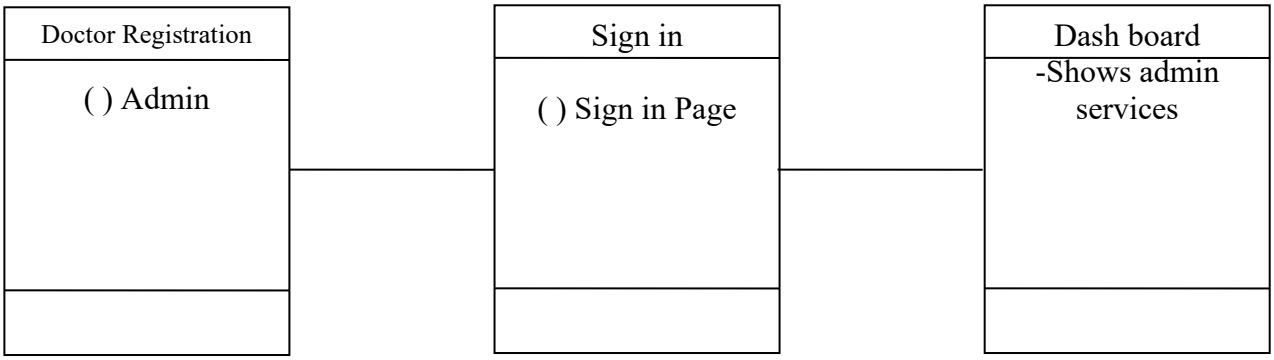
b) UML design for PHASE- I:

- **Class diagram**

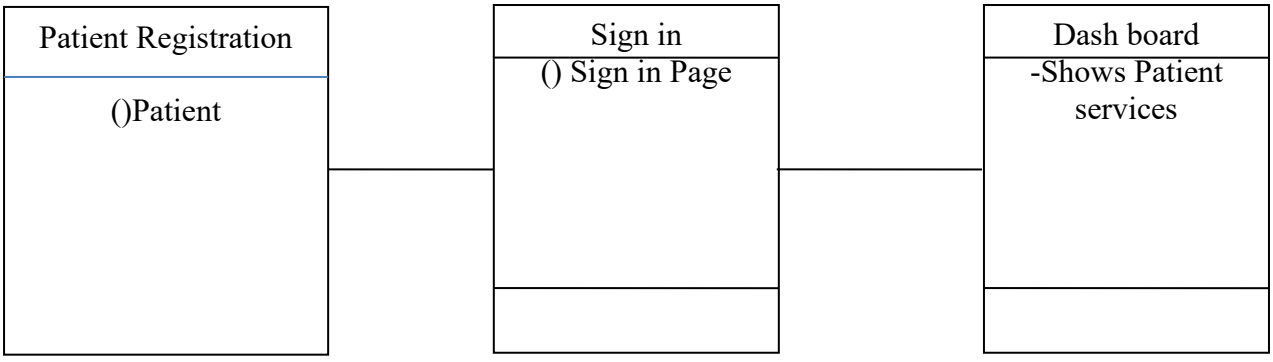
Admin Class Diagram



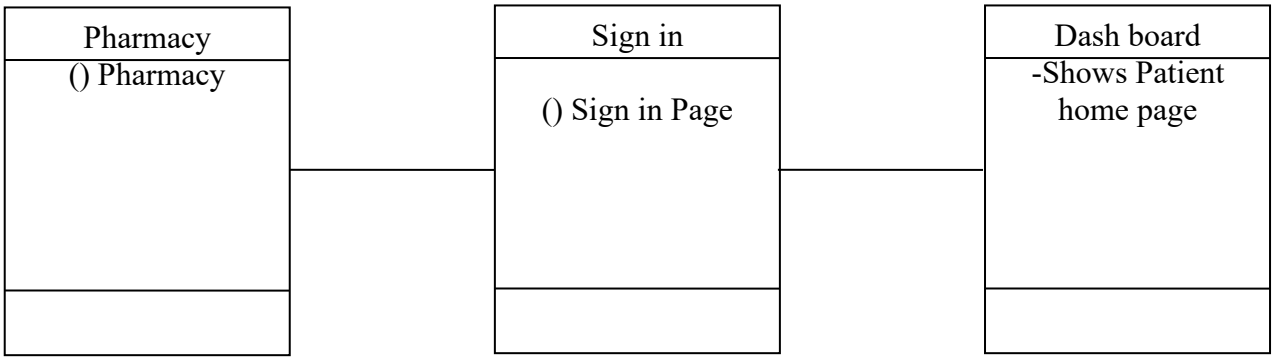
Doctor Class Diagram



Patient Class Diagram

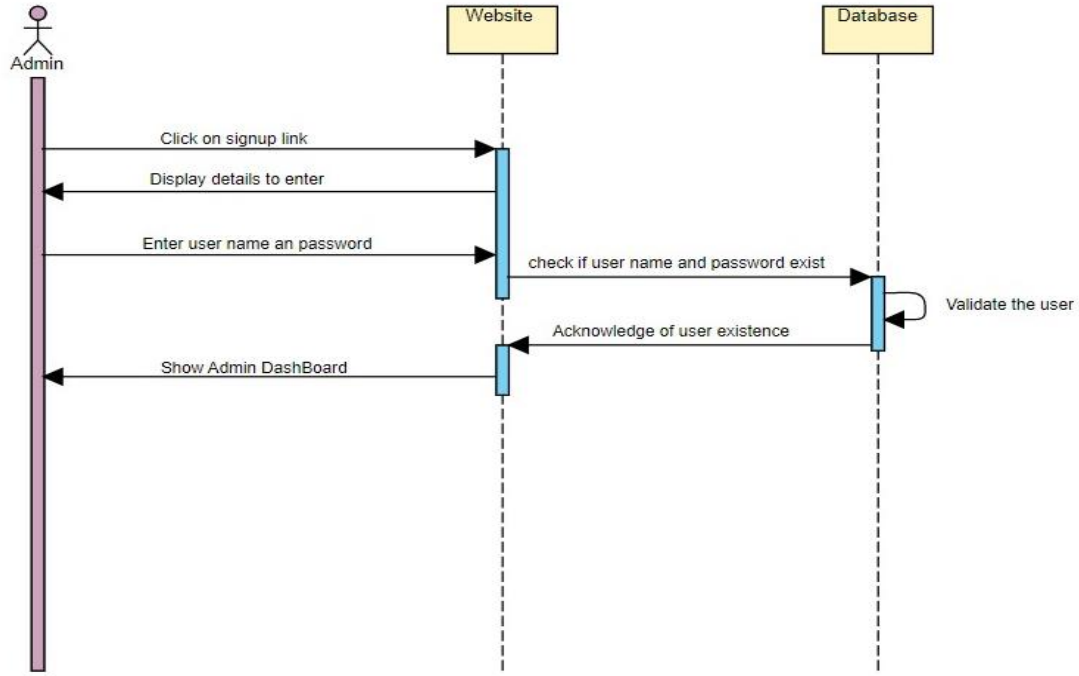


Pharmacy Class Diagram

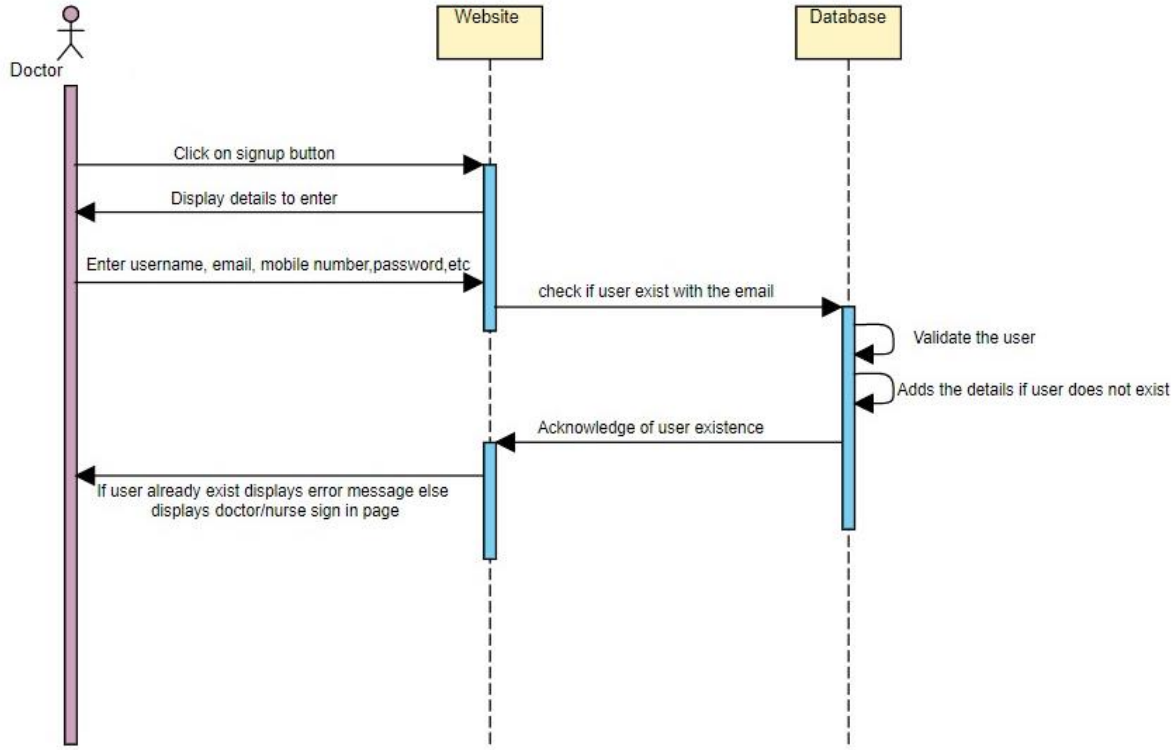


- **Sequence diagram**

Sequence diagram for admin login

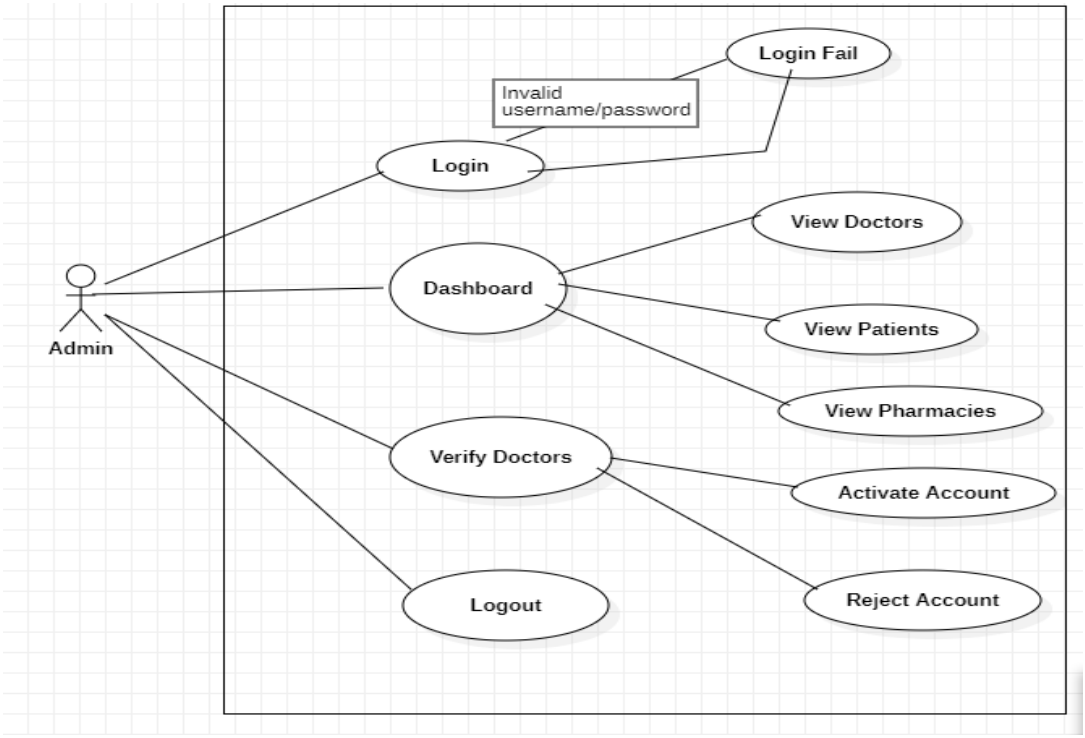


Sequence diagram for doctor/ registration

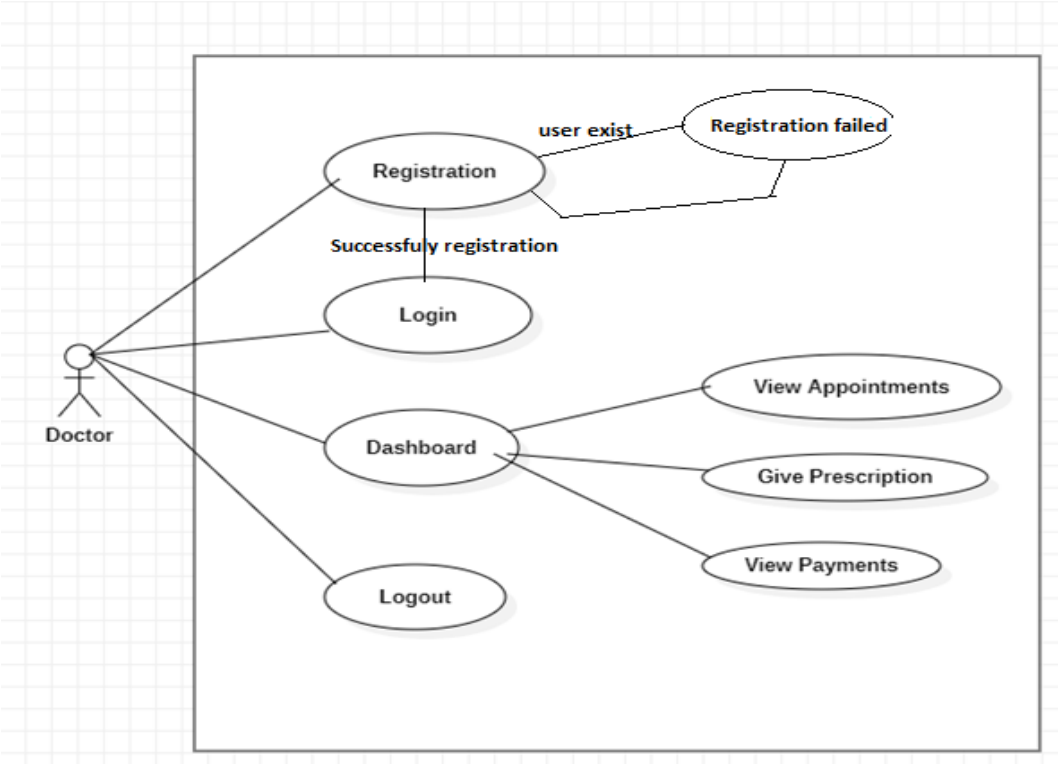


- **<u>Use case diagram</u>** – one normal case and one error case should be included.

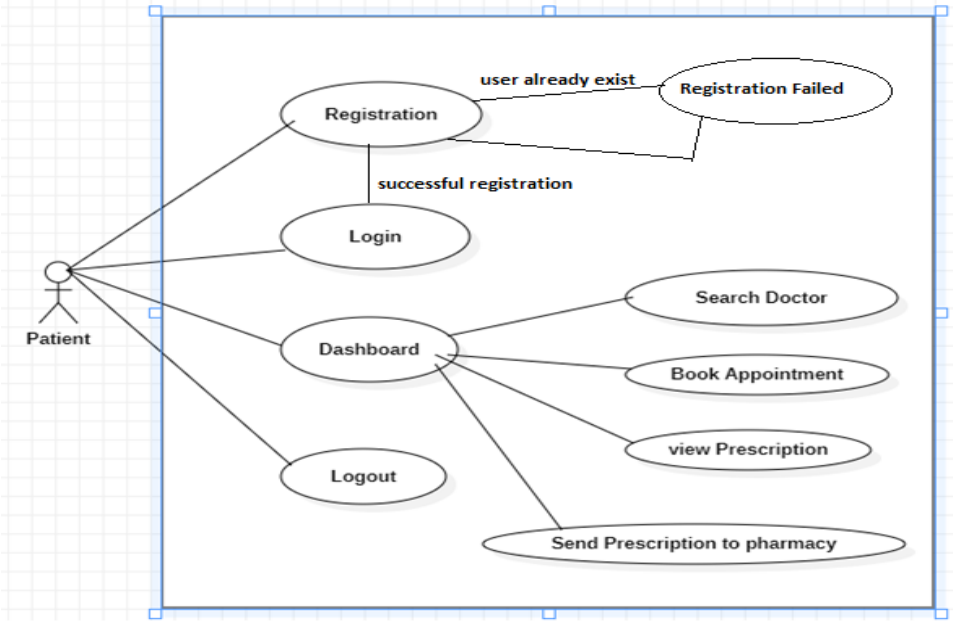
Use case diagram for Admin



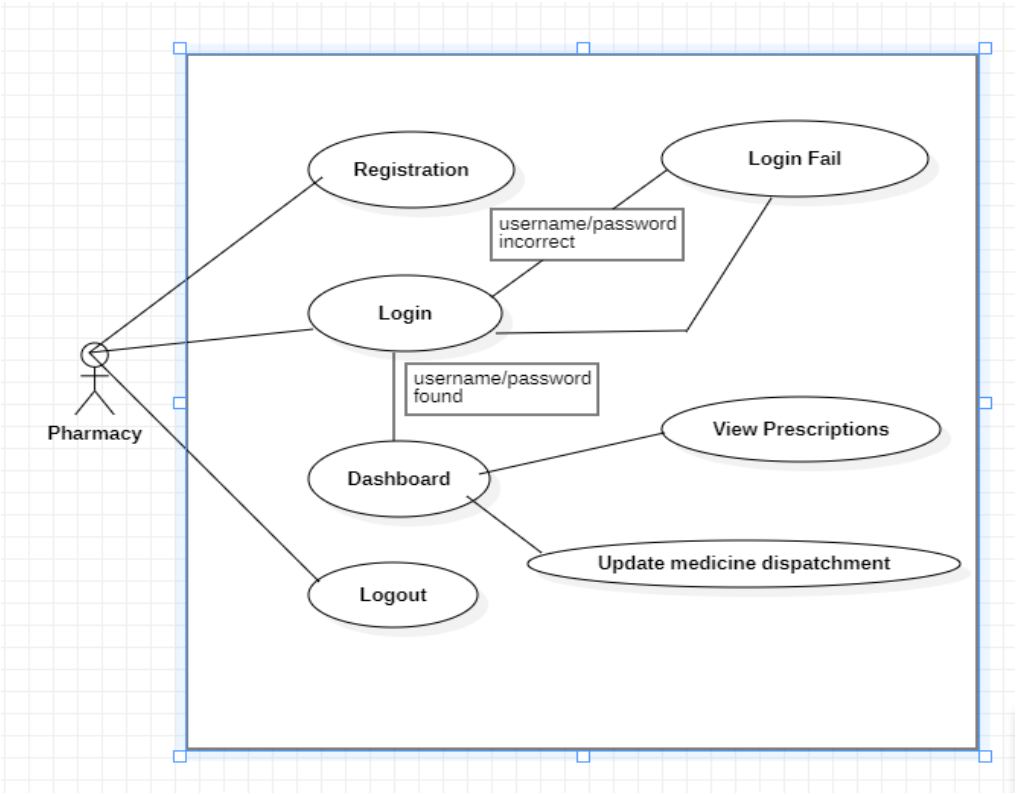
Use case diagram for doctor



Use case diagram for patient



Pharmacy use case diagram



c) Test Cases (unit tests) for phase 1:

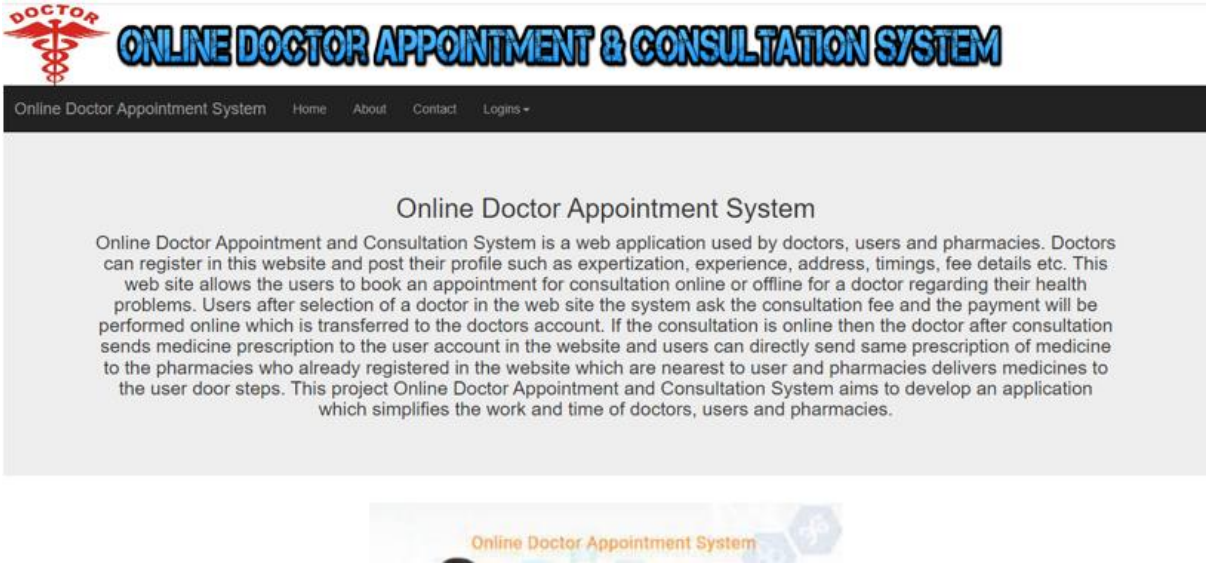
List a set of test cases used for testing the working program including descriptions of tests (e.g., what functionality they test, and inputs/outputs for them).

Step No	Test Case	Step Description	Expected Output	Actual Output	Result
1.	Installing Eclipse	Installing Eclipse	Installed	Installed	Success
2.	Source Code Execution	Source Code Execution	Executed	Executed	Success
3.	Home Page Login	Home Page Login	Home Page Login	Home Page Login	Success
4.	Admin Login	Enter username, password	Successfully login	Successfully login	Success
5	Doctor Registration	Enter doctor details like name, hospital name, mobile, email, password, address, state, city, timings, consultation fee	Successfully Registered	Successfully Registered	Success
6	Doctor Login	Enter email, password correct	Successfully login	Successfully login	Success
7	Patient Registration	Enter patient details like name, address mobile, email, password	Successfully Registered	Successfully Registered	Success
6	Patient Login	Enter email, password correct	Successfully login	Successfully login	Success

a) Installing Eclipse IDE, successfully installed.
b) Created Dynamic Web Project in Eclipse IDE and got success.
c) Developed the Home page of the website and executed it, it showed output in the browser and got successful.
d) Design and implementation of admin login page, when executed, asked input of username and password. Username and password are correct it shown admin home page/dashboard. Login got success. For invalid username and password it again redirected to admin login page.
e) Design and implementation of doctor login and registration pages. In the doctor registration page, doctor details(name, address, state, city, hospital name, mobile, email, password etc..) are given input and clicked on register button account created and redirected to doctor login page. If user already exist it shown error message "your already exist".
f) In doctor login page email and password in given as input and login got success and redirected to doctor home page/dashboard.
g) When patient login page is executed, clicked on **"New Patient"** link and redirected to patient registration page where patient details are given as input and account created.
h) In patient login page, username and password is given and got success and redirected to patient home page/dashboard.

i) In pharmacy registration page, pharmacy details(shop name, owner name, address, mobile, username and password) are given input and account created.
j) In pharmacy login page username and password is given input and successfully login into the site and shown pharmacy dash board.

d) A user manual that tells us how to install/use your program. This is meant for the end-user of the software. You may include screen shots, where appropriate.



This is how the page looks and when the user logins this will display.

e) Clear instructions on how to compile/run both your program and your test cases (the program must compile/run).

a) Download project repository from GitHub.
b) Open Eclipse IDE
c) Select File->import
d) In the dialog box select Java Project.
e) Click on Next
f) Click on the browse button and select the path of the project folder and click on ok.
g) Project added to Eclipse
h) In the Web Content folder, double click on home .jsp so that it opens.
i) Now click on run button on the toolbar.
j) Output will be show in the Eclipse.
k) Open the browser and give URL

f) A section that briefly describes feedback received during the peer review session and actions taken based on the feedback.

In the peer review session, all our teammates described our project titled Online Doctor Appointment Consultation to the Avengers team. We explained all the requirements needed for our project in detail to them and they are HTML, CSS, JavaScript, and MYSQL. Also

explained the features of our project like online doctor appointments where patients can consult a doctor online. This website contains an admin login, patient login, and doctor login. Patients(users) login into the website and book appointments with the specialist doctor for their problems. The doctor checks and consults the patient about their problem and gives the prescription directly to the patients given mail or number. The patient can also order the medicines directly on the website through the pharmacy option where patients should upload the prescription and make the payment for the medicines online and the medicines will deliver to their door. The payment for the doctor will be given by the admin, the money paid by the patients will go to the admin and the admin will distribute it to the doctors. The feedback from the Avengers team is quite good regarding all the features of our project but there were a few questions they asked us which we have answered.
They are
1. They also asked us regarding the payment page whether we are going to create the invoice for the payment or going to create a payment gateway. So, for this, we are going to create the invoice rather than the payment gateway because this may make the project huge, which is out of our boundary right now. But we may take this into the consideration if we have sufficient time
2. They also asked about how the doctor is going to receive the payment like whether the patient will be paying it directly to the doctor or if it goes intermediately through admin. So, for this, we decided on payment going through the admin which will create a systematic approach, and also admin can take his share from the amount paid.
3. They also asked us how we are going to verify whether the doctor is real or a fake one? So, the admin verifies whether the doctor is fake or real through the certification upload and also would be clearly checking for accreditation, which helps in avoiding fake certified doctors from registering.
4. They have asked about the feedback of the patients like where it goes directly to the doctor or any authorized person. Solution: The administrator has the authority regarding the feedback and the users can see the rating and feedback so that they can decide on their own doctors for consultation appointments, it goes to the administrator, and he filters the feedback and ratings, directly to the doctors. So, after discussing we finally decided that the opinions of the patients to be transparent, and the comments and ratings will be visible to the doctor, patients, and those who are registered.

g) A brief reflection on what has been accomplished, what went well and could be improved

we have implemented the front end of the project. Initially, in the Home Page, there will be two options i.e. admin and users. The admin has to click over the admin one and the user has to click over the user one. After clicking it navigates to register and login page. While registering the admin and user has to first register to create a account . Users will give their details and username ,password and there also there will be an option to re-enter password in order to check whether the user has entered the password correctly or not. There will also be an option to enter email and after entering email, they have to sign up. After sign up, it navigates to the form where user gives details about their problem and selects the doctor. The backend has to get completed i.e. after the patient selecting the doctor, he/she has to

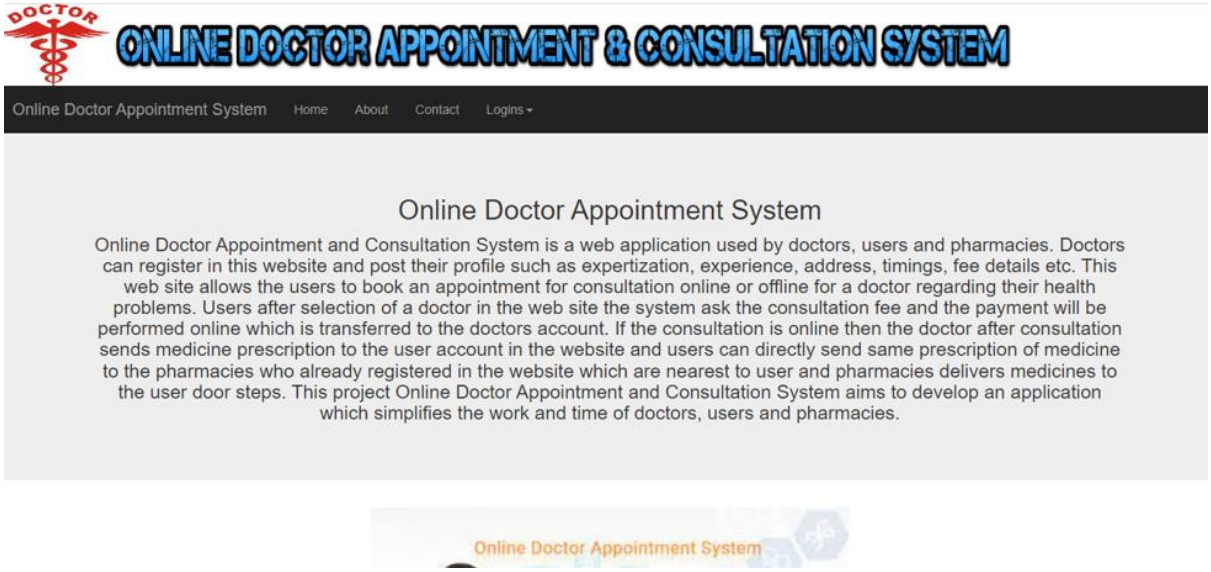
schedule an appointment requesting the doctor and must provide feedback after completing the consultation. We are working on adding an additional service “Ambulance” so that service would benefit both the users and admins as all the services will be available to the users at one place and Admin will get benefit as their business increases. After total project completion, a weblink will be shared and using that link, the end-user can use our application.

TEAM MEMBERS CONTRIBUTION

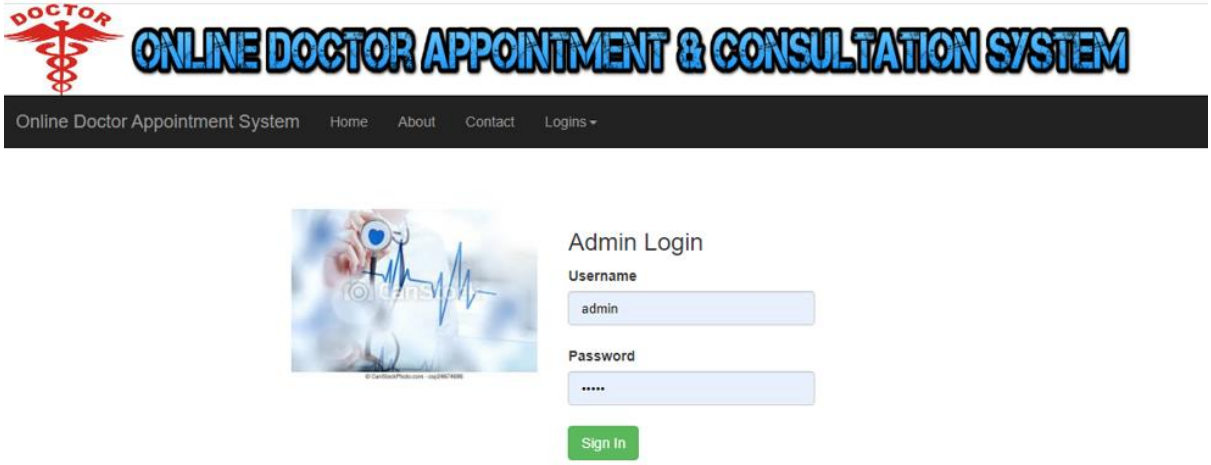
S.NO	NAME	CONTRIBUTION
1	Manvitha Chowdary Bandi	Deliverable-3 documentation, Admin Login Page HTML&JSP code
2	Meghana Pentyala	Deliverable-3 documentation, Doctor Login Page HTML&JSP code
3	Anirudh Reddy Gade	Patient Login Page HTML&JSP Code, Deliverable-3 documentation
4	Vagdevi Gudapati	About Page, Contact Page, Code Functionalities
5	Sreeja Reddy Chilligireddy	Doctor Registration Page HTML&JSP Code, Meeting Minutes
6	Mukunda Priya Rachamalla	Patient Registration Page HTML&JSP Code, Deliverable-3 documentation
7	Sai Vamsi Krishna Kadiyala	Worked on sql databases i.e onlinedoctor tables, Meeting Minutes
8	Vaishnavi Gawni	Home Menu Page HTML&JSP Code, Code Functionalities.

SCREENSHOTS OF WEBSITE

1.Home Page

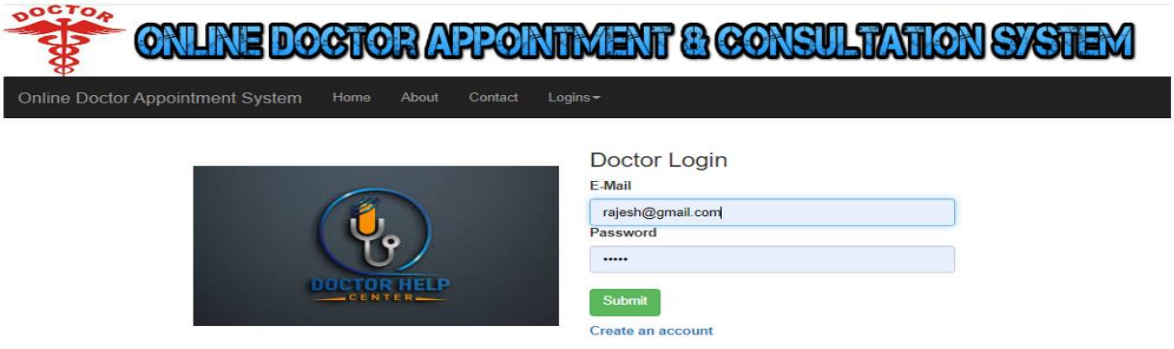


2.Admin Page:



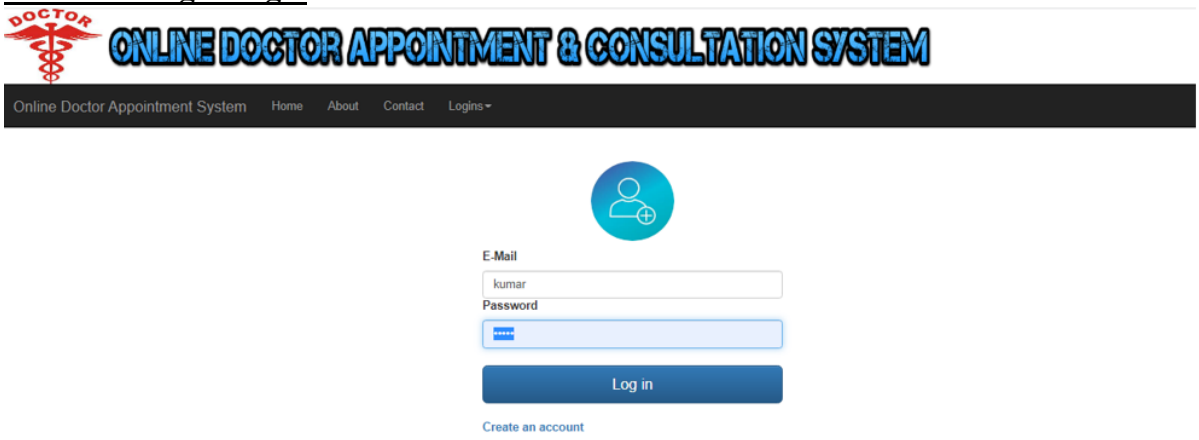
3.Doctor Registration Page

4.Doctor Login Page

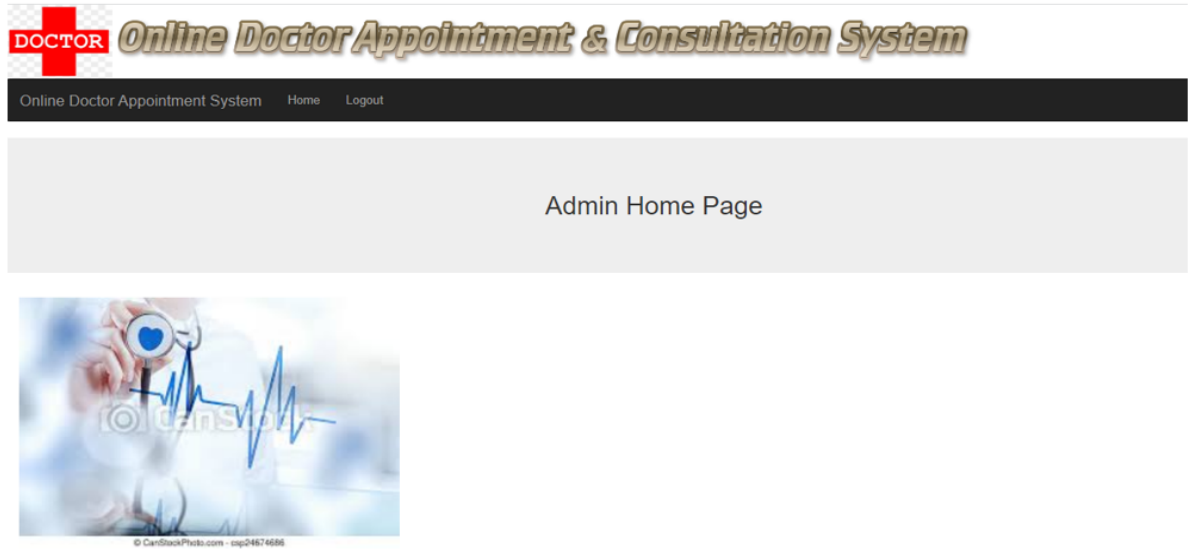


5.Patient Registration Page:

6. Patient Login Page:



7.Admin Home Page



ER DIAGRAM:-

We have added the ER diagram in the Phase 1: