

## DELIVERABLE 5

### a) Report Requirements: -

List a set of requirements designated for phase III.

There are no changes from the deliverable-2 requirements, but an elaborate explanation of requirements has been given to the phase II.

### **Functional and Non-Functional Requirements of PHASE-II:**

#### a) Functional Requirements:

Along with functional requirements mentioned in phase-1 and 2, these are separately for phase-3.

The Functional Requirements for phase-III are as follows:

- A doctor can add the prescription for the patient.
- The patient can view his prescription as well as can download it.
- The patient can also send the prescription to the pharmacy he wishes to.
- The pharmacy takes up the prescription of the patient and updates the status of the delivery.
- The admin page has all the information regarding the doctors and the patients.

#### b) Non-Functional Requirements:

The Non-Functional Requirements for the phase-II 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.
- The prescription of the patient can be downloaded, so that the patient can give it to the medical stores and avoid issues for medicines which are not on-counter medicines.

- Clear and precise images are used to have a pictorial indication of the site.
- The status of the delivery of the medicines has to be precisely updated by the pharmacy to avoid miscommunication.

c) Interfaces:

- 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.
- The users namely, Doctors, Patient, Admin, Pharmacy.
- After logging into the pharmacy's dashboard, they can view the prescription of the patients, which they need to delivery.
- The pharmacy can update the status of the delivery.
- The patients can download the prescription after their consultation and can also send it to pharmacy.
- In admin page, the admin can view all the doctors and patients details.

d) System Requirements:

We have used the same system requirements as stated earlier.

**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.

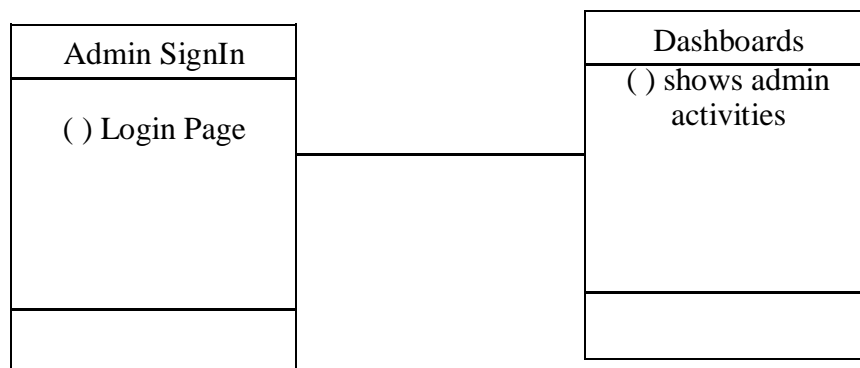
Apache tomcat is a webserver where the website is present. It is actual one which takes requests from client(browser) and sends response to client.

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

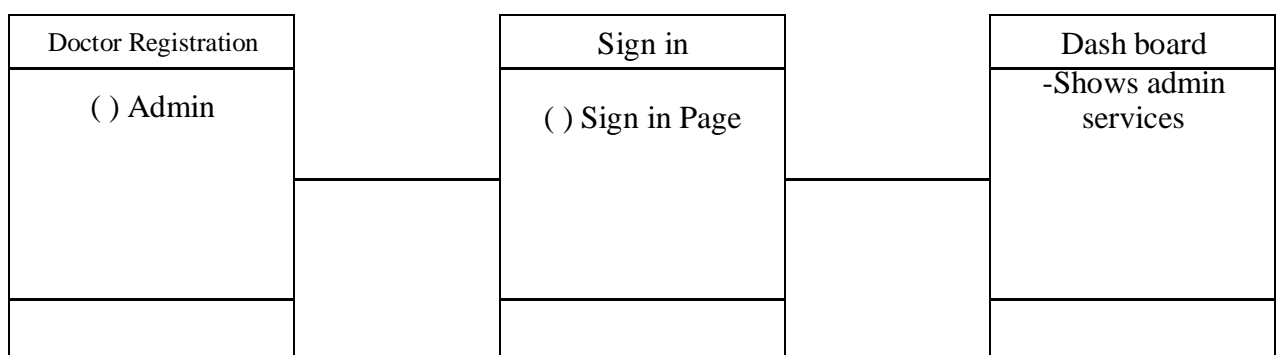
## b) UML design for PHASE- III:

- Class diagram

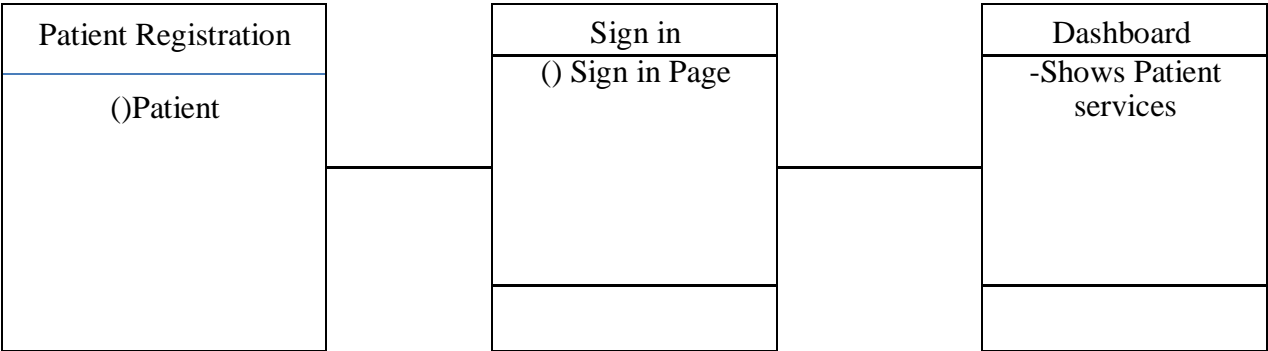
### Admin Sign in Class Diagram



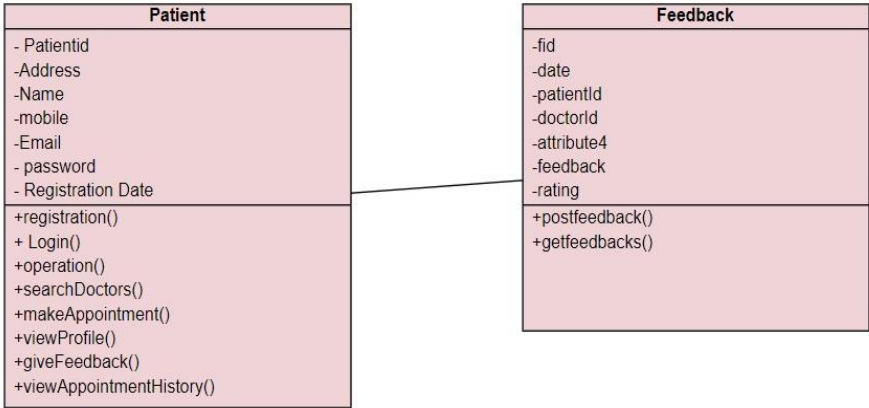
### Doctor Sign in Class Diagram



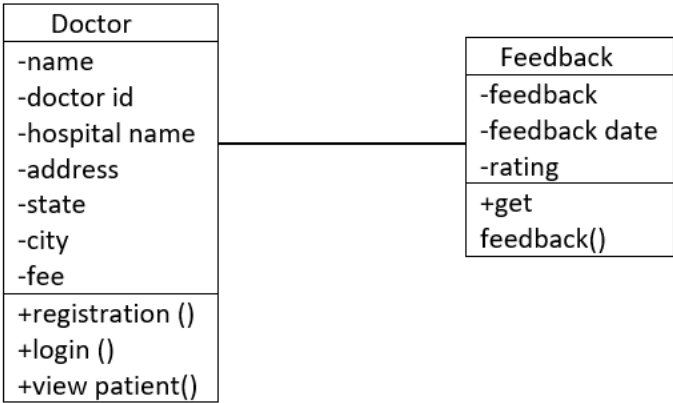
### Patient Sign in Class Diagram



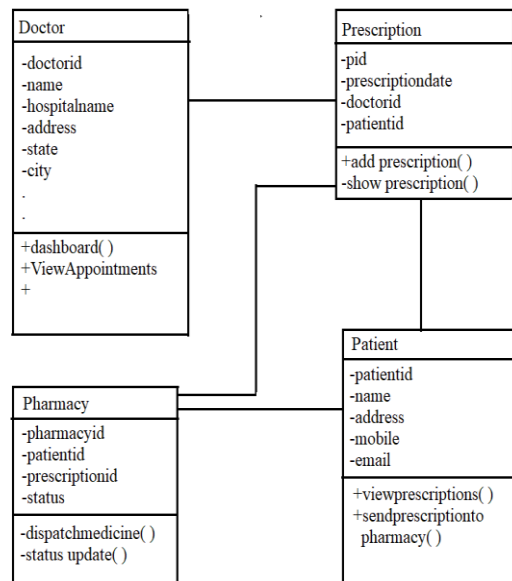
### Patient Dashboard Class Diagram



### Doctor Dashboard Class Diagram

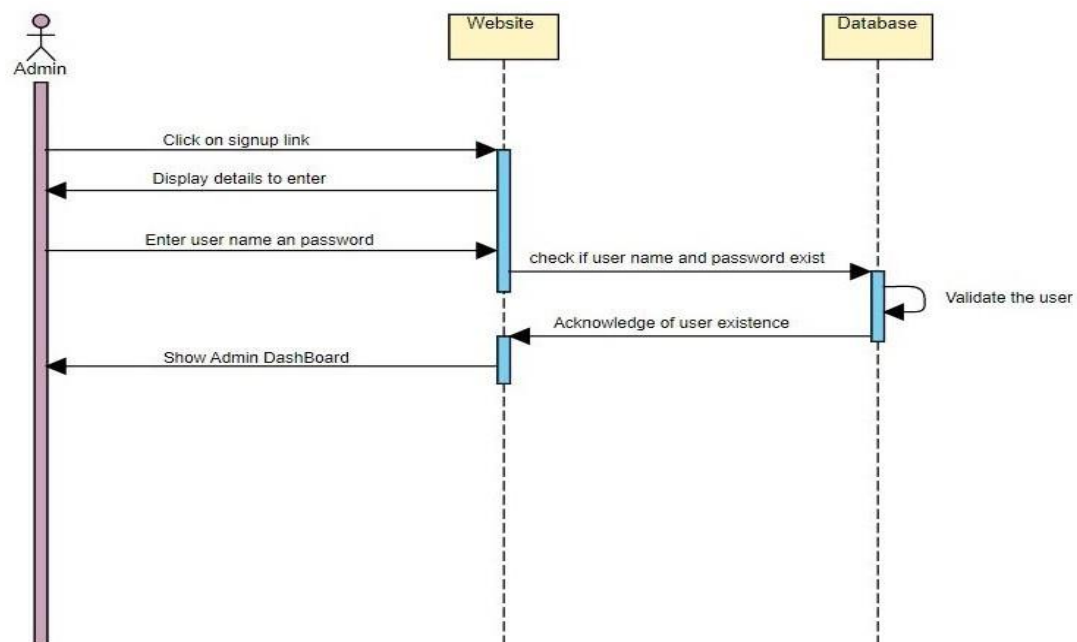


## Pharmacy and Prescription class diagram

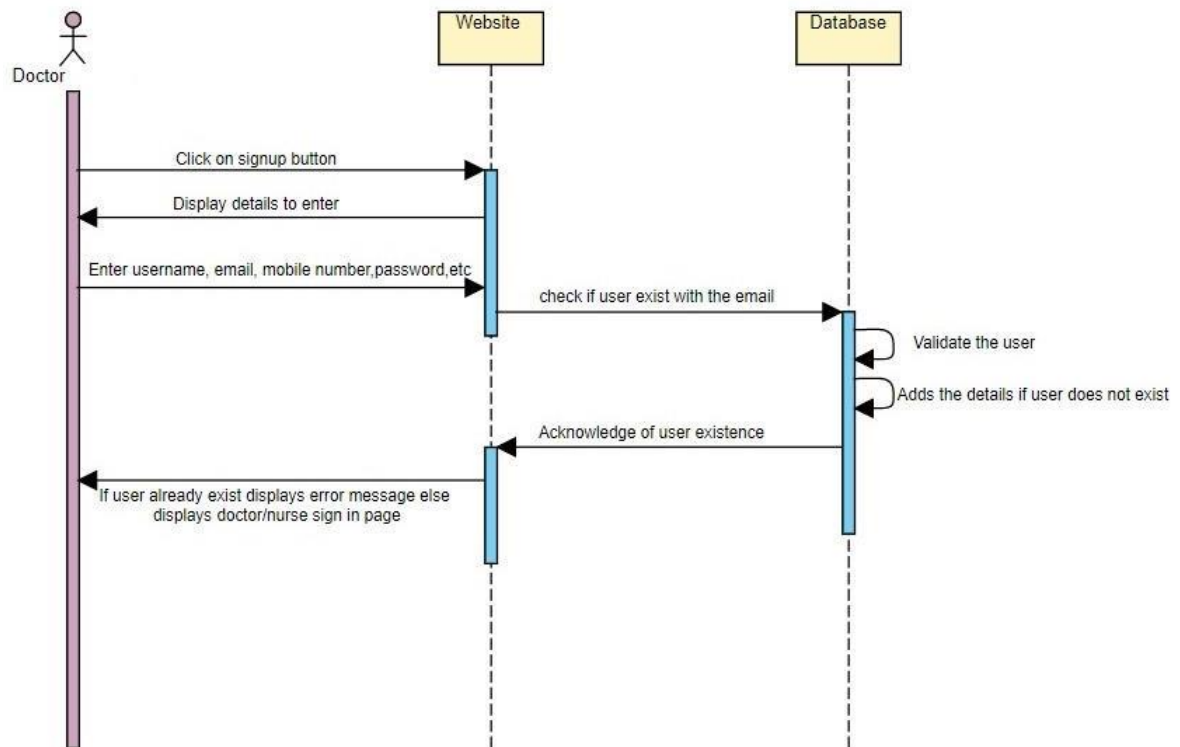


## Sequence diagram

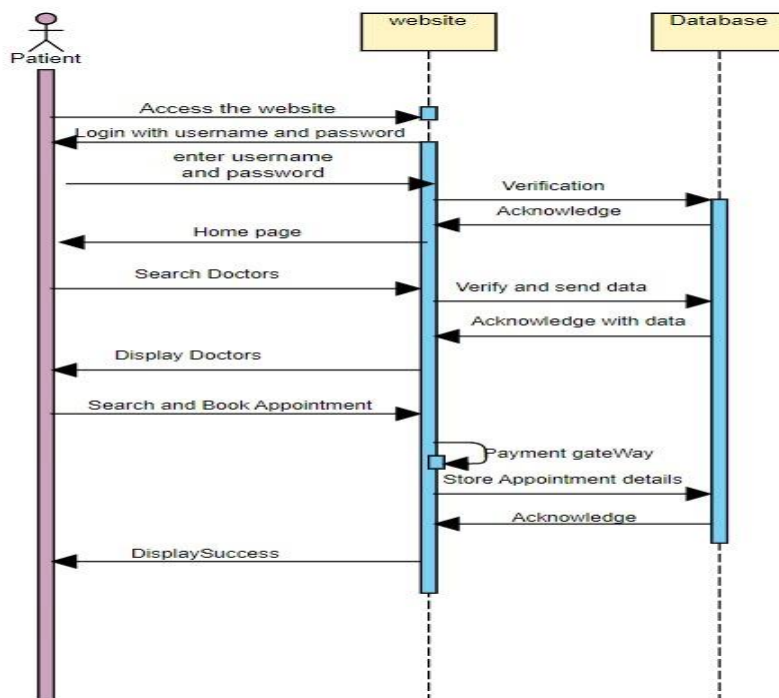
Sequence diagram for admin login



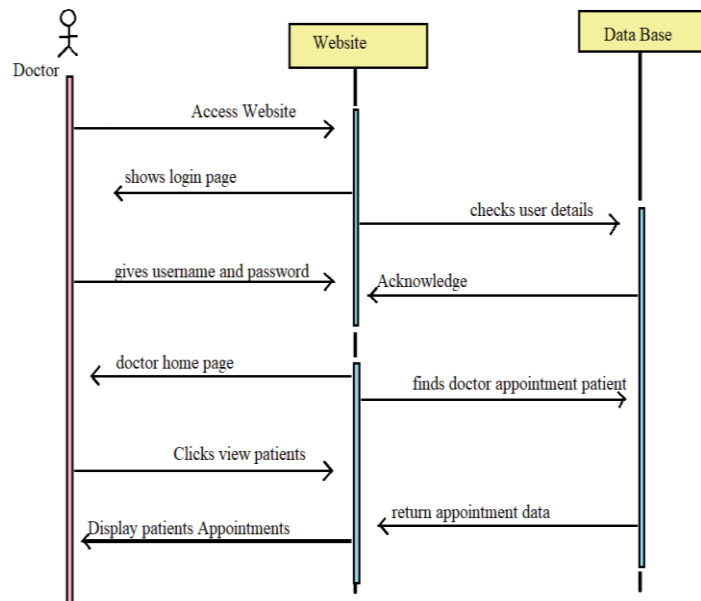
Sequence diagram for doctor/ registration



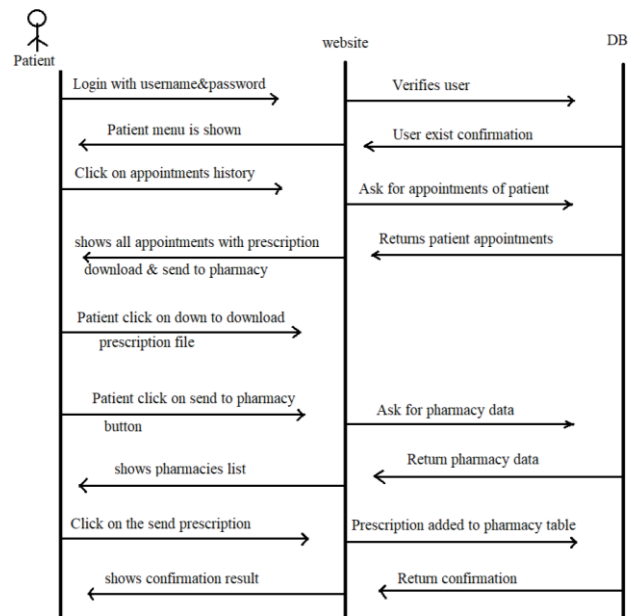
Sequence diagram for patient's Dashboard



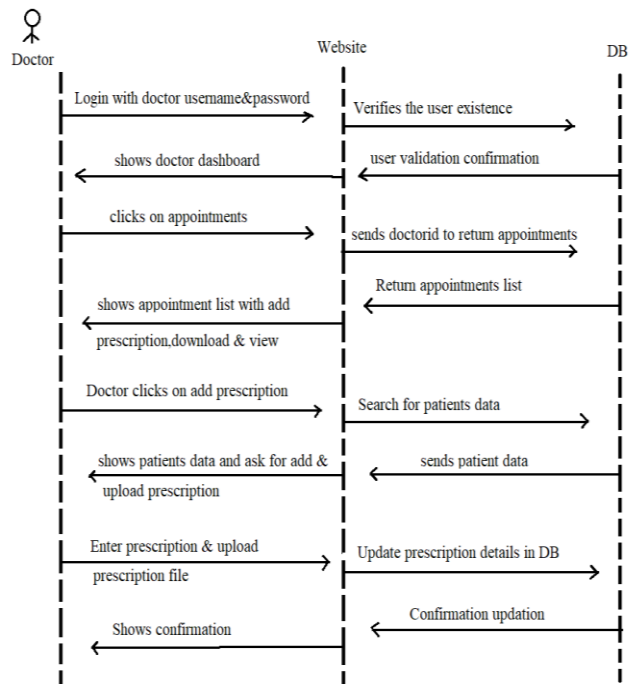
## Sequence diagram for Doctor's Dashboard



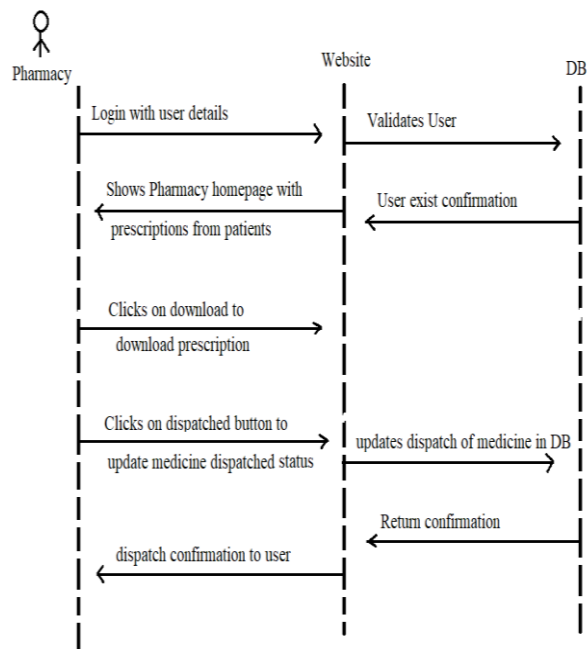
## Sequence diagram for view, download and send prescription



## Sequence diagram for Add Prescription:



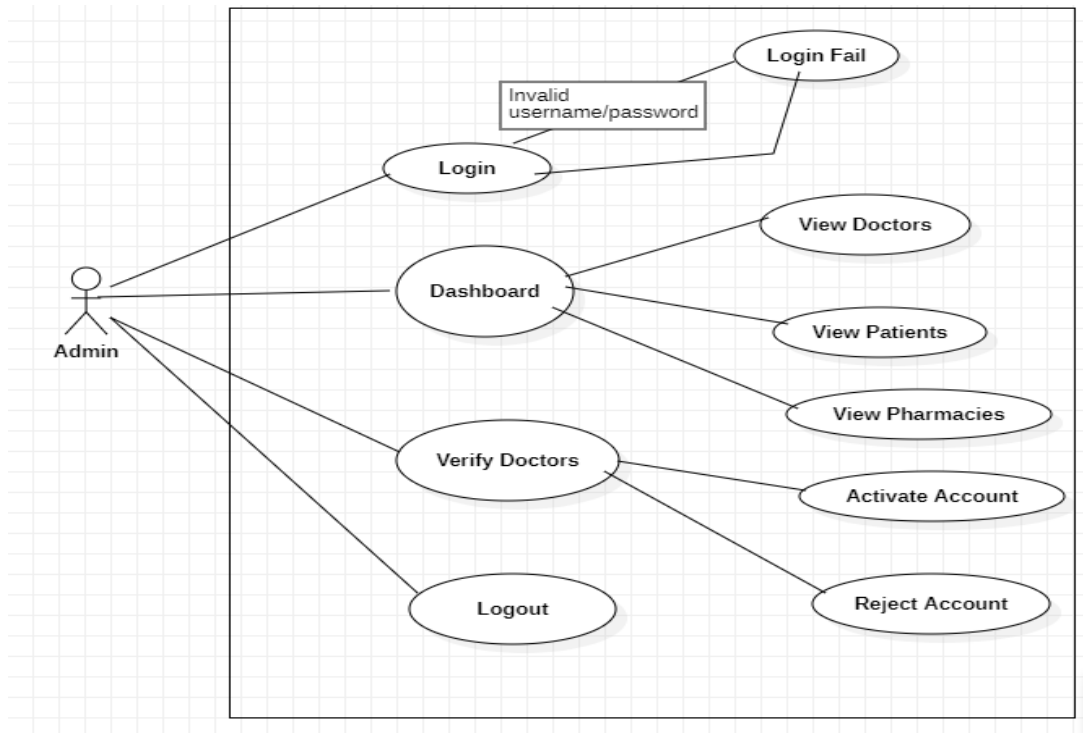
## Sequence diagram for Pharmacy:



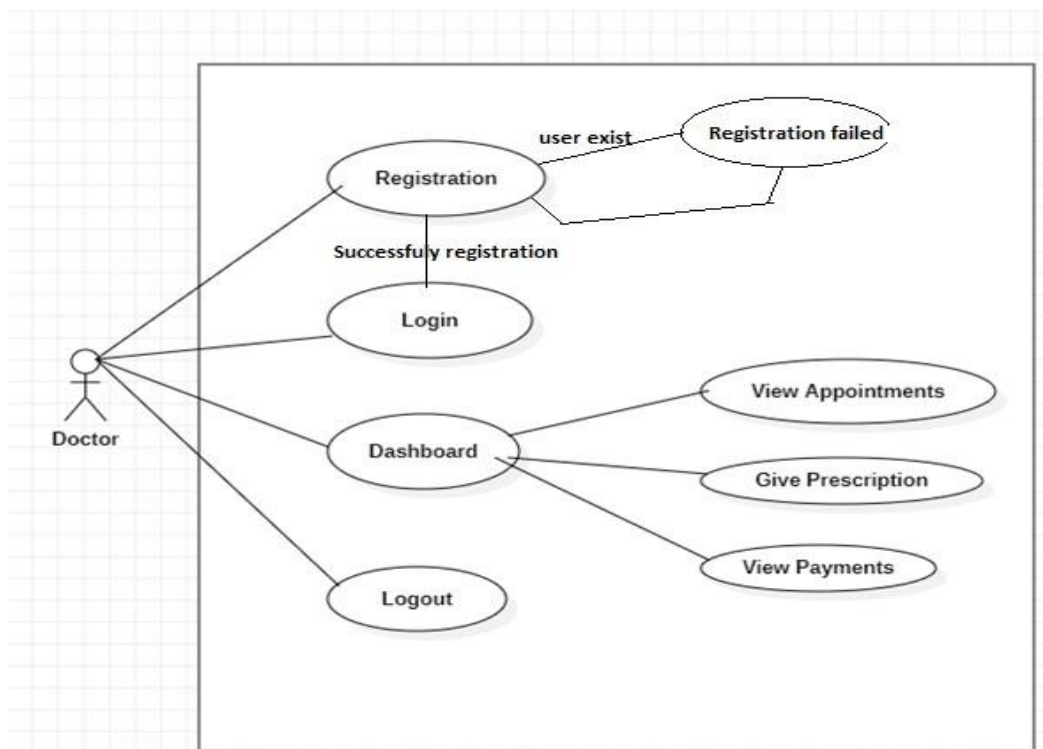


**Use case diagram** – one normal case and one error case should be included.

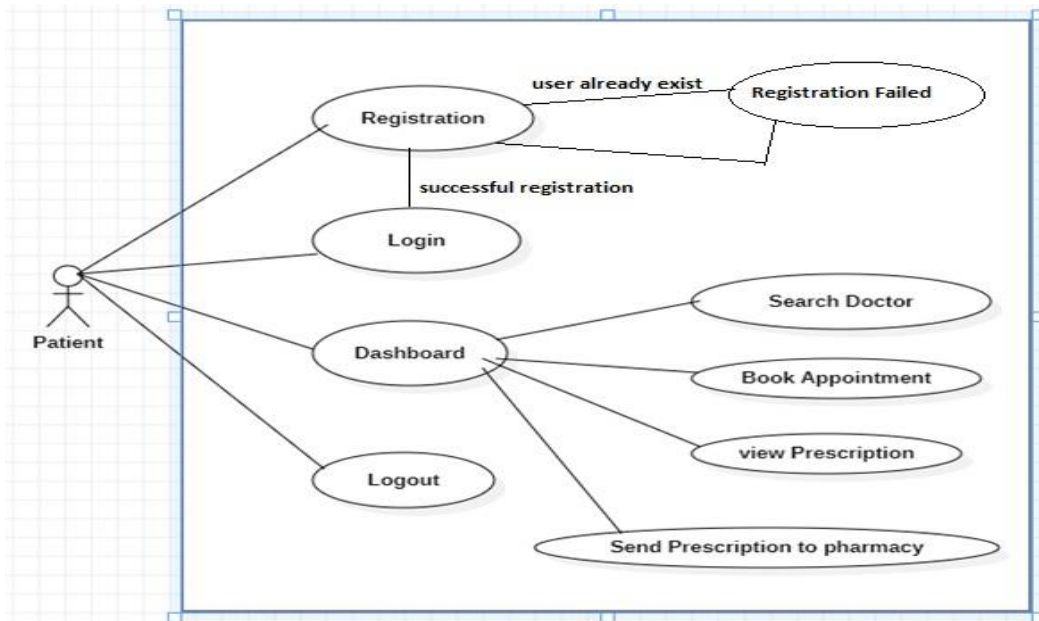
Use case diagram for Admin



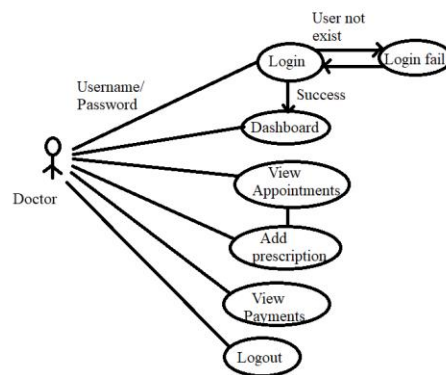
Use case diagram for doctor Dashboard



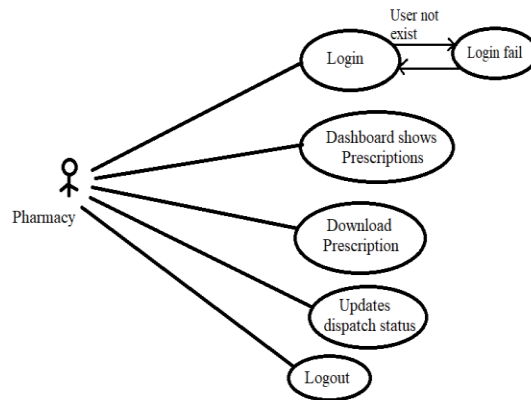
Use case diagram for patient Dashboard



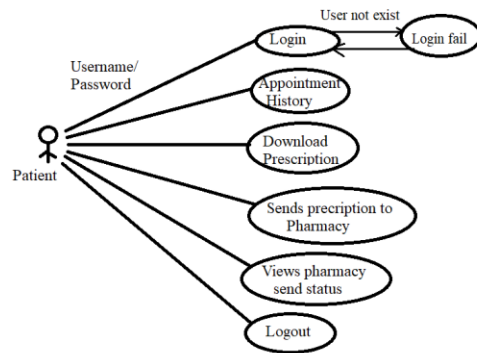
Use case diagram for Add prescription by doctor



Use case diagram for Pharmacy



Use case diagram for patient view prescription



### c) Test Cases (unit tests + system tests)

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). While unit testing focuses on the components that have been implemented in phase 3, system testing should consider the entire project (components that have been implemented through all three phases).

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
8	Patient Login	Enter email, password correct	Successfully login	Successfully login	Success
9	Search doctor	Enter symptoms or medical area.	Shows the available doctors.	Shows the available doctors.	success
10	Book Appointment	Select doctor, enter symptoms and details.	Booked successfully	Booked successfully	success
11	Payment Fee	Enter card details and make payment.	Booked successfully	Booked successfully	Success
12	Add Feedback	Enter the comment and give the rating.	Submitted Feedback	Submitted Feedback.	Success
13	View Feedback	Enter the username and password.	View feedback	View feedback	Success
14	Doctor view patients	Go to Appointments.	Shows the appointments.	Shows the appointments.	Success

15	Add Prescription	Add Prescription	Prescription added	Prescription added	Success
16	Download prescription	Download prescription	Prescription file downloaded	Prescription file downloaded	Success
17	View Prescription	View prescription	Show s prescription in browser	Show s prescription in browser	Success
18	Patients send Prescription to pharmacy	Patient send Prescription to pharmacy	Prescription sent	Prescription sent	Success
19	Pharmacy registration	Pharmacy registration	Successful Registration	Successful Registration	Success
20	Pharmacy Login	Pharmacy Login	Login Success	Login Success	Success
21	Pharmacy downloads prescription file	Pharmacy downloads prescription file	Prescription file downloaded	Prescription file downloaded	Success
22	Pharmacy update dispatch status	Pharmacy update dispatch status	Dispatch success	Dispatch success	Success

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

- a) After the successful installation of IDE, we successfully created dynamic web project using the Eclipse IDE and then created and executed the website's main page, and the results are clear from the way a web browser renders them.
- b) Every time the admin login page is utilized, a username and password must be entered per the layout and implementation. When the login and password are correct, the admin dashboard or home page is displayed; if the credentials are incorrect, nothing is displayed. It reopened the admin login screen when the username and password were incorrect.

c) To view the patients, appointments, symptoms, and information, you must first log into the doctor's dashboard and then click on the appointments area. The patient's home page or dashboard is successfully accessed by the user after they provide their username and password in patient login page.


d) After logging into patient's dashboard, you may access the profile and appointment booking options by clicking the book appointment button. The search icon allows us to look up specific medical conditions or specialists by name or specialty. It then displays the doctor's information, such as name, specialization, appointment costs, etc. After choosing a physician and submitting our card information to set an appointment, the payment is made. The patient can provide the doctor with feedback following the appointment. The administrator and physician receive this feedback.

e) After logging into the admin feedback and doctor's appointment gets displayed.




Home Profile Appointment History Feedbacks Logout

search doctor Search



**Doctor Name:**Manvitha  
**Hospital Name:**ABC  
**Address:**2320 west prairie street, center stage apartment-103,Denton,Texas  
**Qualification:**Cardiologist  
**Specilization:**Cardiologist Experience:5  
**Fee:**200 **OpenTime:**10.00 **CloseTime:**5.00

Book Appointment



**Doctor Name:**sreeja  
**Hospital Name:**xyz  
**Address:**W oak street,denon,texas  
**Qualification:**dermatology  
**Specilization:**dermatologist Experience:3  
**Fee:**60 **OpenTime:**10.00 **CloseTime:**5.00

Book Appointment

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History

localhost:8080/OnlineDoctorAppointmentConsultation/patient/appointment\_history.jsp

DOCTOR Online Doctor Appointment & Consultation System

Home Profile Appointment History Feedbacks Logout

### History..

Show 10 entries

Search:

doctor	appointmentdate	symptoms	prescriptionfile	feedback
Manvitha ABC 2320 west prairie street, center stage apartment-103,9408433065	2022-11-07 21:05:27.0	heart pain	Download	Give Feedback
doctor	appointmentdate	symptoms	prescriptionfile	feedback

Showing 1 to 1 of 1 entries

Previous 1 Next

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Feedback

localhost:8080/OnlineDoctorAppointmentConsultation/patient/view\_feedbacks.jsp

DOCTOR *Online Doctor Appointment & Consultation System*

Home Profile Appointment History Feedbacks Logout

### Feedbacks..

Show  entries

Search:

date	doctor	feedback	rating
2022-11-07	Manvitha ABC 2320 west prairie street, center stage apartment:-103,9408433065	good consultation	5
date	doctor	feedback	rating

Showing 1 to 1 of 1 entries

Previous  Next

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
Home

localhost:8080/OnlineDoctorAppointmentConsultation/patient/patient\_home.jsp?search=dermatologist&submit=Search#

DOCTOR *Online Doctor Appointment & Consultation System*

Home Profile Appointment History Feedbacks Logout

search doctor



**Doctor Name:**sreeja  
**Hospital Name:**xyz  
**Address:**W oak street,denton,texas  
**Qualification:**dermatology  
**Specilization:**dermatologist Experience:3  
**Fee:**50 **OpenTime:**10.00 **CloseTime:**5.00




Home

localhost:8080/OnlineDoctorAppointmentConsultation/patient/patient\_home.jsp

DOCTOR **Online Doctor Appointment & Consultation System**


Home Profile Appointment History Feedbacks Logout

search doctor Search



**Doctor Name:**Manvitha  
**Hospital Name:**ABC  
**Address:**2320 west prairie street, center stage apartment-103,Denton,Texas  
**Qualification:**Cardiologist  
**Specilization:**Cardiologist Experience:5  
**Fee:**200 **OpenTime:**10.00 **CloseTime:**5.00

Book Appointment



**Doctor Name:**sreeja  
**Hospital Name:**xyz  
**Address:**W oak street,denon,texas  
**Qualification:**dermatology  
**Specilization:**dermatologist Experience:3  
**Fee:**60 **OpenTime:**10.00 **CloseTime:**5.00

Book Appointment


69°F Partly cloudy

Login

localhost:8080/OnlineDoctorAppointmentConsultation/patient\_login.jsp?msg=Invalid%20username/password

DOCTOR **ONLINE DOCTOR APPONTMENT & CONSULTATION SYSTEM**

Home About Contact Logins



E-Mail  
sreeja@gmail.com

Password  
\*\*\*\*\*

Log in

[Create an account](#)

Invalid Username/Password

69°F Partly cloudy

Appointments

localhost:8080/OnlineDoctorAppointmentConsultation/doctor/appointments.jsp

DOCTOR *Online Doctor Appointment & Consultation System*

Home Appointments Logout

### Appointments

Show 10 entries

Search:

appointmentid	doctorid	patientid	appointmentdate	symptoms	prescriptionfile
1	3	1	2022-11-07 21:05:27.0	heart pain	<a href="#">Download</a>
appointmentid	doctorid	patientid	appointmentdate	symptoms	prescriptionfile

Showing 1 to 1 of 1 entries

Previous 1 Next

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Profile

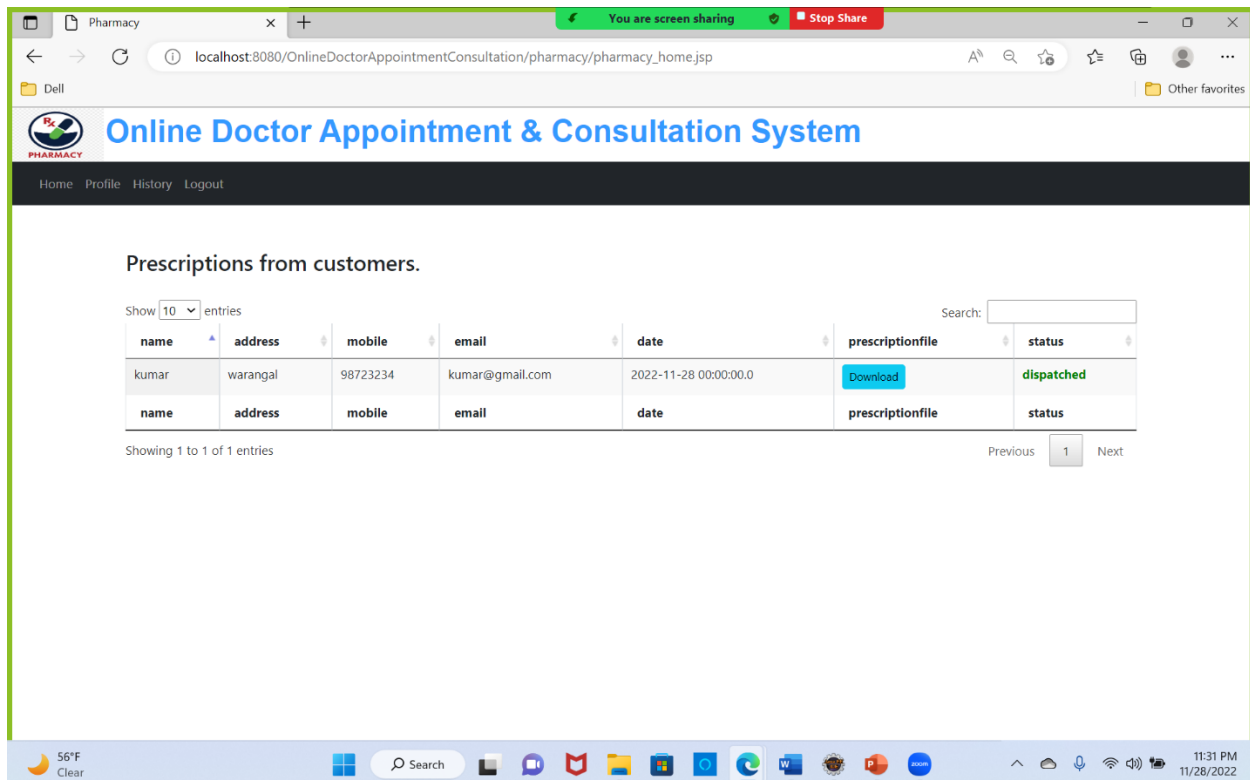
localhost:8080/OnlineDoctorAppointmentConsultation/patient/patient\_profile.jsp

DOCTOR *Online Doctor Appointment & Consultation System*

Home Profile Appointment History Feedbacks Logout

### Profile

Patient Id:	1
Name:	Meghana
Address:	Texas
Mobile:	9408433064
Email:	megha@gmail.com
Password:	Meghana
Register Date:	2022-11-07



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

- Download project repository from GitHub.
- Open Eclipse IDE
- Select File->import
- In the dialog box select Java Project.
- Click on Next
- Click on the browse button and select the path of the project folder and click on ok.
- Project added to Eclipse
- In the Web Content folder, double click on home .jsp so that it opens.
- Now click on run button on the toolbar.
- Output will be show in the Eclipse.
- Open the browser and give URL
- Go to logins and select the user i.e., admin, doctor and patient.
- After selecting the user login using the credentials and it opens the dashboards of interface.

- If you login into the doctor's dashboard there we can see the sections Home, Profile, Appointments, payments, Feedback and logout . when we click on the Home we can view the home of the doctor, in profile we can view the profile of the doctor , in appointments we can view all the appointments that are scheduled in that day , in payment section we can view the payments did by the patients and their payment details to book the appointment and in the feedback section the doctor can view the feedback given by the patient .In appointments section doctor can also view patients appointments, symptoms and information of the patient. In appointment section the doctor can upload the prescription or the patient.
  - If you login into the patient's dashboard there we can see the sections Home, profile, Appointment history, Feedback, Pharmacy, logout. Then we can see the profile of the doctor and book an appointment option where we have to click the book an appointment. We can see the search icon where we can search the symptoms or area of the specialist in medical field then it shows the doctor's information i.e., doctor name, area of specialization, appointment fees, etc. Then we select the doctor and book an appointment by giving the card details then it makes the payment. After completion of the appointment the patient can give the feedback of the doctor. That feedback goes to the admin and doctor. When we have completed the consultation with the doctor we can also the download or send the prescription to the pharmacy .Then in pharmacy section we can also see the status of the medicines delivery.
  - If you login in pharmacy we can see the home, profile, history and logout sections .In profile section we can see all the medical shops which are associated with this website from which we can select the area and our preferable medical store. In history we can see the orders from the patients, their prescription and status of the order.
  - If you login into the admin it shows the action on the website like feedback and doctor's appointment.
- n. In database we have used the WampServer in phpMyAdmin where we stored our database. We have return the SQL queries and upload it to the WampServer. we have created ten tables to store the data or information. we have created the admin,appointments,bank,doctors,feedback,patients,payments,pharmacy, pharmacy prescription and transactions tables in database.
- .Admin: In admin table we only have username and password.
- Appointments: In appointment database we stored the doctor-id, patient-id,

appointment-id, symptoms, prescription, and prescription-id.

Bank: In bank database we have stored the data of accountnumber, customername, address, mobile, email, accounttype, cardnumber, Expirydate, cvv, balance.

Doctors: In doctors database we have stored the data of doctored, name, hospitalname, address, state, city, qualification, specialization, experience, mobile, email, doctorphoto, certificate, consultfee, password, accountnumber, registerdate, opentime, closetime.

Feedback: In Feedback database we have stored the data of Feedback-id, date, patient-id, doctor-id, feedback, rating.

Patients: In Patients database we have stored the data of Patientid, name, address, mobile, email, password, registerdate.

Payments: In payments database we have stored the data of payment-id, doctor-id, patient-id, paydate, amount.

Pharmacy: In pharmacy database we have stored the data of pharmacy - id, storename, ownername, address, state, city, mobile, email, username, password.

Pharmacyprescriptions: In pharmacyprescription database we have stored the data of id, appointment-id, pharmacy-id, patient-id, date, prescriptionfile, status.

Transactions: In transactions database we have stored the data of id, date, toaccountnumber, fromaccountnumber, amount.

- a. e. 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
- l. Go to logins and select the user i.e., admin, doctor and patient.
- m. After selecting the user login using the credentials and it opens the dashboards of interface.

- If you login into the doctor's dashboard there we can see the sections Home, Profile, Appointments, payments, Feedback and logout . when we click on the Home we can view the home of the doctor, in profile we can view the profile of the doctor , in appointments we can view all the appointments that are scheduled in that day , in payment section we can view the payments did by the patients and their payment details to book the appointment and in the feedback section the doctor can view the feedback given by the patient .In appointments section doctor can also view patients appointments, symptoms and information of the patient. In appointment section the doctor can upload the prescription or the patient.
- If you login into the patient's dashboard there we can see the sections Home, profile, Appointment history, Feedback, Pharmacy, logout. Then we can see the profile of the doctor and book an appointment option where we have to click the book an appointment. We can see the search icon where we can search the symptoms or area of the specialist in medical field then it shows the doctor's information i.e., doctor name, area of specialization, appointment fees, etc. Then we select the doctor and book an appointment by giving the card details then it makes the payment. After completion of the appointment the patient can give the feedback of the doctor. That feedback goes to the admin and doctor. When we have completed the consultation with the doctor we can also the download or send the prescription to the pharmacy. Then in pharmacy section we can also see the status of the medicines delivery.
- If you login in pharmacy we can see the home, profile, history and logout sections. In profile section we can see all the medical shops which are associated with this website from which we can select the area and our preferable medical store. In history we can see the orders from the patients, their prescription and status of the order.
- If you login into the admin it shows the action on the website like feedback and doctor's appointment.

In database we have used the WampServer in phpMyAdmin where we stored our database. We have return the SQL queries and upload it to the WampServer. we have created ten tables to store the data or information. we have created the admin ,appointments, bank,doctors, feedback,patients, payments,pharmacy, pharmacy prescription and transactions tables in database.

**Admin:** In admin table we only have username and password.

**Appointments:** In appointment database we stored the doctor-id, patient-id, appointment-id, symptoms, prescription, and prescription-id.

**Bank:** In bank database we have stored the data of accountnumber, customername, address, mobile, email, accounttype, cardnumber, Expirydate, cvv, balance.

**Doctors:** In doctors database we have stored the data of doctored, name, hospitalname, address, state, city, qualification, specialization, experience, mobile, email, doctorphoto, certificate, consultfee, password, accountnumber, registerdate, opentime, closetime.

**Feedback:** In Feedback database we have stored the data of Feedback-id, date, patient-id, doctor-id, feedback, rating.

**Patients:** In Patients database we have stored the data of Patientid, name, address, mobile, email, password, registerdate.

**Payments:** In payments database we have stored the data of payment-id, doctor-id, patient-id, paydate, amount.

**Pharmacy:** In pharmacy database we have stored the data of pharmacy - id, storename, ownername, address, state, city, mobile, email, username, password.

**Pharmacyprescriptions:** In pharmacyprescription database we have stored the data of id, appointment-id, pharmacy-id, patient-id, date, prescriptionfile, status.

**Transactions:** In transactions database we have stored the data of id, date, toaccountnumber, fromaccountnumber, amount.

**f)** A section that describes which features you have successfully implemented and any limitations (i.e., any known problems or issues with your program) such as features that you were unable to complete on time including feedback received during peer review sessions. It should include discussions of your plans for the next phase of your project. These are the next features and/or improvements you plan to make to your program (assume that you will continue working on this project next semester).

Our project is “Doctor online appointment and consultation system” we have included online appointment booking services along with medicine delivery through pharmacy. We all included all the points which we have mentioned in the deliverable 1. We had an idea of including the ambulance service as well we had some time constraint issues. We have included most of the suggestions recommended by the avengers’ team except creating just one login page for all the users instead of four. But to maintain compatibility and easy understandable access we stuck with having different login pages. Other suggestion was

to upper case the first letters of the fieldnames, which we had rectified. They also asked us whether we chose payment gateway or just included the card details, at that moment we hadn't decided on that, but now we haven't included the gateway. The next plans for this project would be including the ambulance services as well as provided booking appointments for blood test and the tests which can be done at the home.

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

The project's front end has been implemented. Two options, admin and users, will be available at first on the Home Page. Both the user and the admin must click over the appropriate buttons. The registration and login websites are redirected to after you click on them. The username and password must be submitted during registration by both the administrator and the users. There is also the option to re-enter the password to verify that it was entered correctly. The option to submit an email address will also be available, and after doing so, users must register. It goes to the home page after signing. The services option is located at the top of that page, and when selected, the full list of services is presented. The user is directed to a page after selecting the necessary service where all personal data must be input, including name, mobile number, email address, address, city, and pin code. It is necessary to create client-side code, and NETBEANS is employed in this process. MYSQL is set up to allow connections to the database. All necessary functions have already been integrated, but additional services may eventually be added based on customer demand and requirement. Additionally, the payment may vary.

**TEAM MEMBER CONTRIBUTION TABLE:**

S.NO	NAME	CONTRIBUTION
1	Manvitha Chowdary Bandi	Deliverable-5 documentation, pharmacy registration code JSP
2	Meghana Pentyala	Deliverable-5 documentation, pharmacy login code JSP.
3	Anirudh Reddy Gade	Updated the database with details, pharmacy registration JSP
4	Vagdevi Gudapati	Pharmacy login code JSP



5	Sreeja Reddy Chiligireddy	Pharmacy Registration Code JSP
6	Mukunda Priya Rachamalla	Gave feedback and pharmacy access to admin, Pharmacy Registration JSP.
7	Sai Vamsi Krishna Kadiyala	Gave feedback and pharmacy access to admin, Pharmacy Login JSP.
8	Vaishnavi Gawni	Pharmacy Registration Code