

PROJECT TITLE:

+PHARHELP





Team Member Information

ID No	Name	Qualification	Joining Date
8493	Raghuraman L	BE.MECH	18.07.2022
8514	Balaji Santhanam	BE.MECH	18.07.2022
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Project Features

- +Pharhelp comes with Rest API and Microservice driven architecture with angular 13 UI, providing users below mentioned features:
- 1) Dashboard
- 2)Login/Logout
- 3) Signup
- 4) Forgot Password
- ❖ 5) Appointment Booking
- ❖ 6) Booking History
- ❖ 7) User Profile



Architecture

28.10.22



Client

ANGULAR COMPONENT

- Dashboard
- Login/Logout
- > Signup
- > Appointment Booking
- > Forgot Password
- Reset Password
- Success Page
- User Profile

SPRING BOOT

- ➤ Login/Logout
- > JWT/Spring Security
- > Signup
- > Forgot Password
- > Appointment Booking
- Booking History
- > Hospital

http://localhost:9090

HTTP REQUEST

HTTP RESPONSE

http://localhost:4200

Server

WEB SERVER-TOMCAT SERVER

PHARHELP+ - FEATURES

- ➤ Login & Logout
- > Signup
- > JWT/Spring Security
- ➤ Book An Appointment
- ➤ View Booking History
- > Forgot Password
- Reset Password



Build Environment

Technology	Versions	
Angular	13.0	
Core Java	8	
Mysql Work bench	8	
Spring Boot	2.7.1	
HTML & CSS	5	
Bootstrap	5.2	
Eclipse IDE	4.12	
TypeScript	4.7.2	
Node JS	15.0.0	



Technology Learnt

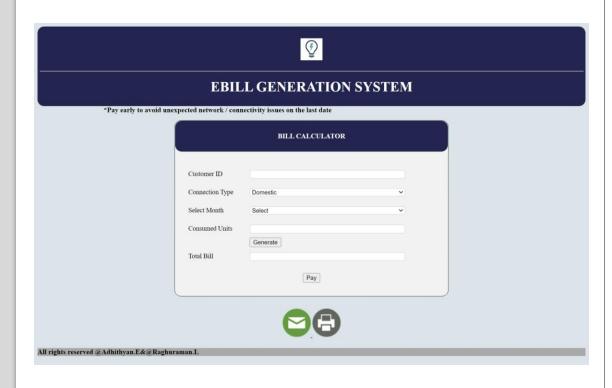
S.no	Technology	Project
1	Java Collections	Storing of data – Array list, Map,Set, Queue
2	Servlets	Route the calls from the view page to controller and controller to model
3	Java 8 Features (Lamada)	Enable to treat functionality as a method argument
4	Spring boot Rest API	An architectural style for building next-generation API's
5	Hibernate/JPA	The management of relational data in the Java application
6	Spring Security	Providing both authentication and authorization to Java applications
7	Spring MVC (Thymeleaf)	Used to build web applications
8	Json Web Tokens	Used to securely transfer security information between client and server
9	MySQL – 1X1, 1X Many ,Many X Many	Database relationship between the tables with the Rest API's
10	Microservice – Feign	Important tool for microservice developers to communicate with other microservices via Rest API
11	Microservice – Config	Manages the configurations and serves all the services
12	Microservice – API Gateway	Serves as a reverse proxy to accept API calls from the client application, forwarding this traffic to the appropriate service
13	Angular 13 With HTTP Client	Provides a gateway to access fetch the data from external resources(URL) with the help of http client



Pilot Projects Executed

Project Name	Technology	Remarks
Phone Book	Core Java, HTML and CSS	
E-Bill Generation	Core Java, HTML and CSS	
Train Reservation System	Core Java, HTML and CSS	
Appointment System	Core Java, HTML and CSS	

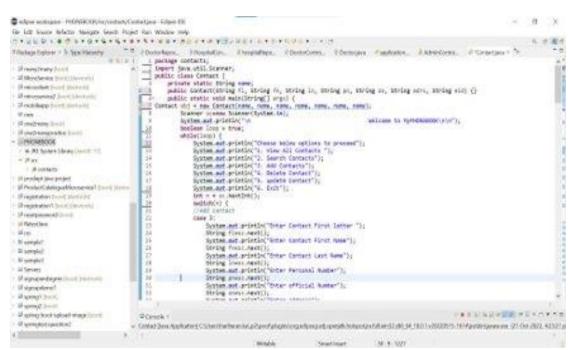




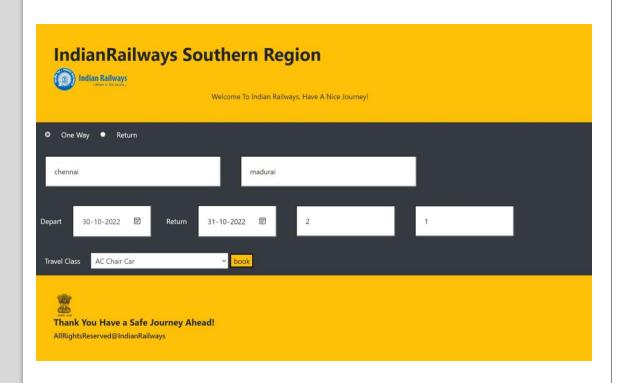
```
1 package electricity_bill;
   2 import java.util.*;
  4 public class Ebill {
      public static void main(String[] args) {
    System.out.println("*************Welcome to Electricity Billing system*********);
              //Initiating Menu options
             boolean loop=true;
             while(loop) {
             System.out.println("Enter\n1.Electricity Bill Generation By Customer Id");
             System.out.println("2.Electricity Bill Generation By Meter Id");
 12
             System.out.println("3.Registration");
13
             System.out.println("4.Reports");
 14
             System.out.println("5.Exit");
a 15
             Scanner scanew Scanner(System.in);
             //Assigning Different cases to different menu options
16
17
             int g=sc.nextInt();
18
             switch(g)
19
                                                                                              企■異数 及結節原原 世日・日・
5.Exit
Enter customer ID:
Customer Name: Adhithyan
Phone No.: 7865443221
Enter month:
Total meter reading is: 1421 Kwh
The total units consumed this month:168 Kwh
Your bill is:672 Rs
********Thanks for Visiting!*******
```







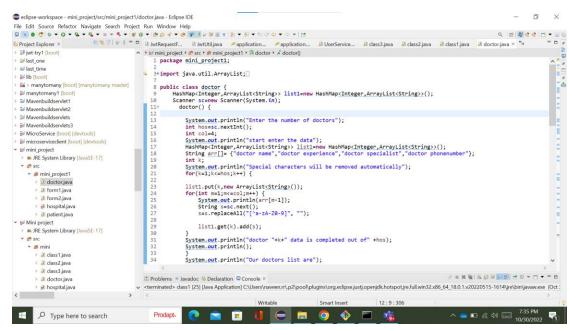




```
balaji.sa - Railwayreservationsystem/src/Railreservation/Main.java - Eclipse IDE
                                                                                                                                       - 0 X
File Edit Source Refactor Navigate Search Project Run Window Help
1 package Railreservation;
      import java.util.*;
     public class Main
          //function for booking ticket
          public static void bookTicket(Passenger p)
             TicketBooker booker = new TicketBooker();
             //if no WL is available , means all tickets are filled.. so no tickets available
             //check if preferred berth is available
             if((p.coachPreference.equals("S2") && TicketBooker.availableS2seats > 0 )||
                (p.coachPreference.equals("SL") && TicketBooker.availableSLseats > 0) ||
                (p.coachPreference.equals("AC") && TicketBooker.availableACseats > 0))
                 System.out.println("Preferred Coach Available");
                if(p.coachPreference.equals("S2"))
                    System.out.println("2S Coach Given");
                    //call booking function in the TicketBooker class
                    booker.bookTicket(p,(TicketBooker.S2seats.get(0)),"S2");
                    //remove the booked position from available positions and also decrease available seats of that
                    // particular type
                    TicketBooker. S2seats.remove(0);
                    TicketBooker.availableS2seats--;
                else if(p.coachPreference.equals("SL"))
                    System.out.println("SL Coach Given");
                    //call booking function in the TicketBooker class
                    booker.bookTicket(p,(TicketBooker.SLseats.get(0)),"SL");
                    //remove the booked position from available positions and also decrease available seats of that
                    // particular type
                    TicketBooker.SLseats.remove(0);
                    TicketBooker.availableSLseats--;
                                                                  Writable
                                                                                  Smart Insert
```





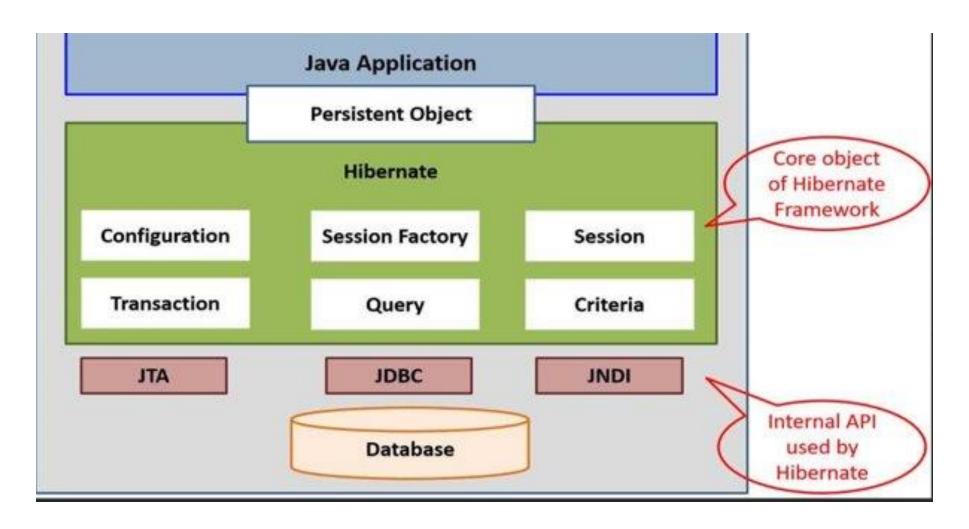




JFS Technology Block Diagrams

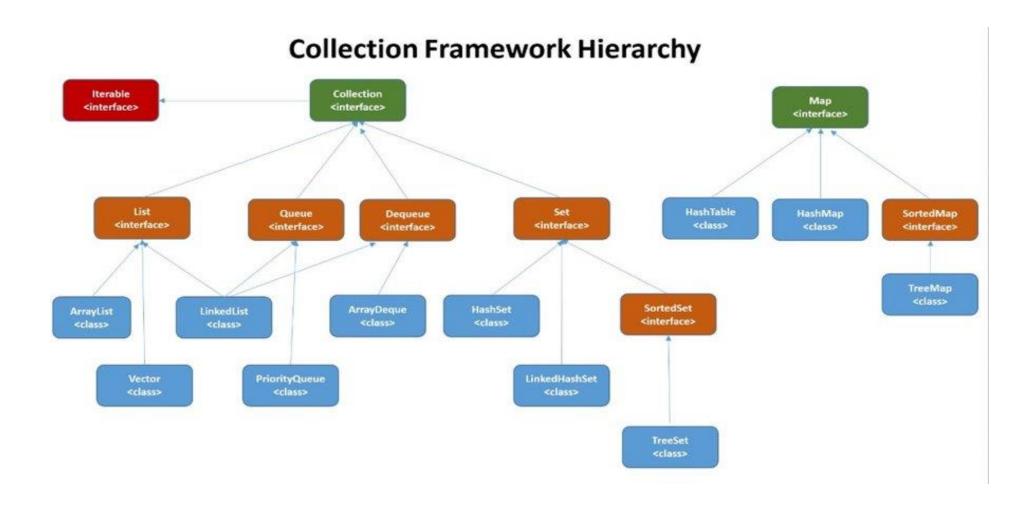


JDBC/Hibernate/API



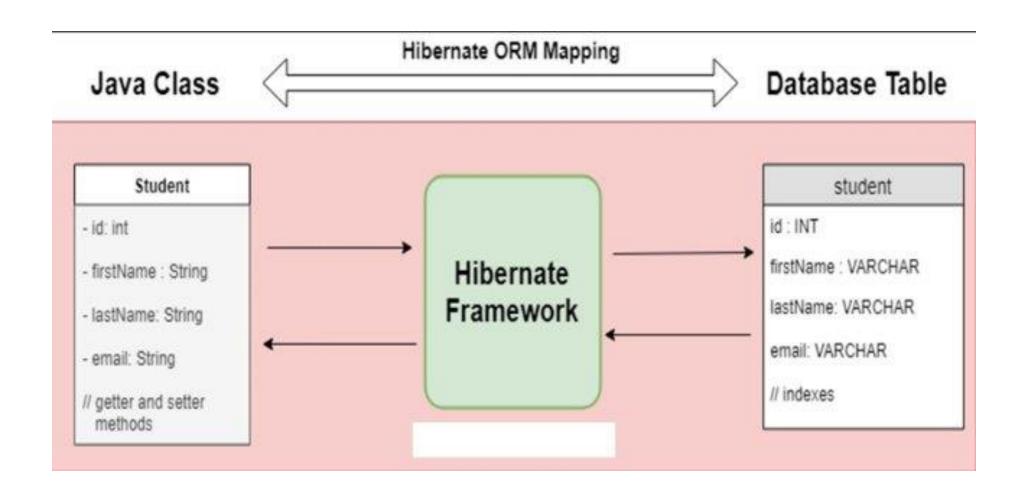


Collections





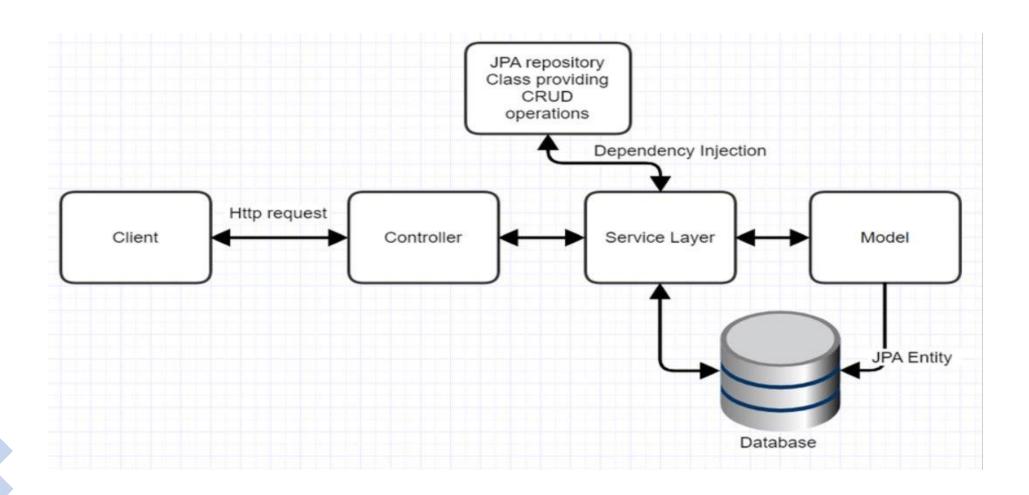
Hibernate



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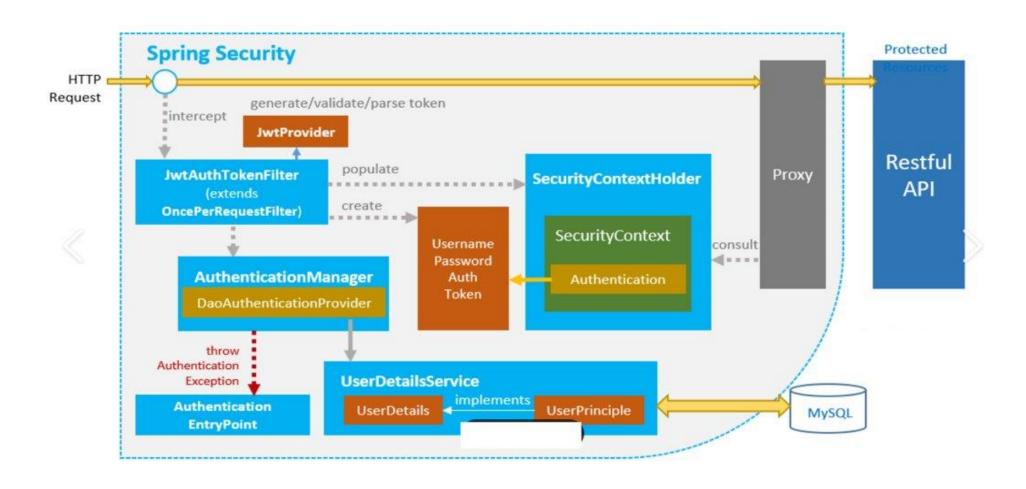


Spring Boot



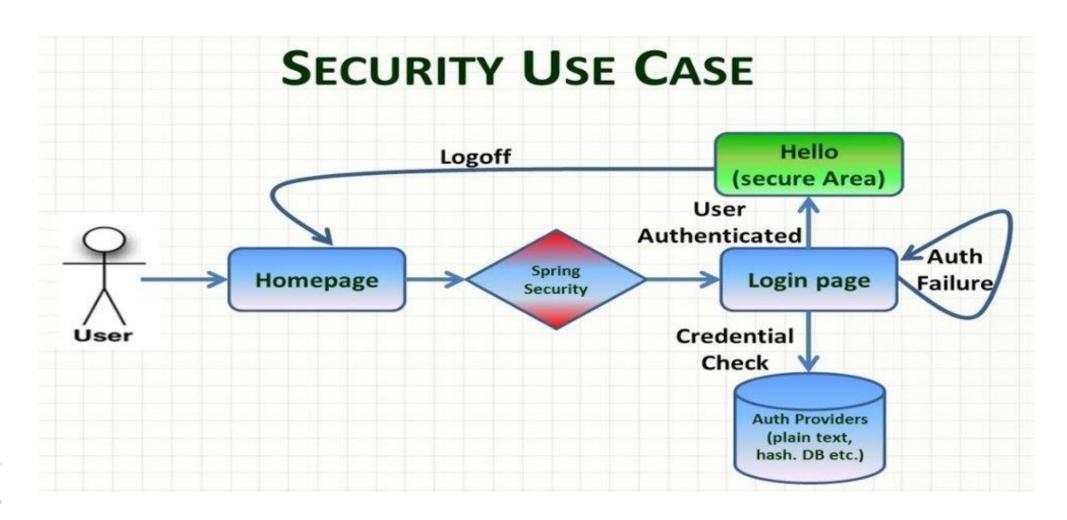


Jason Web Tokens



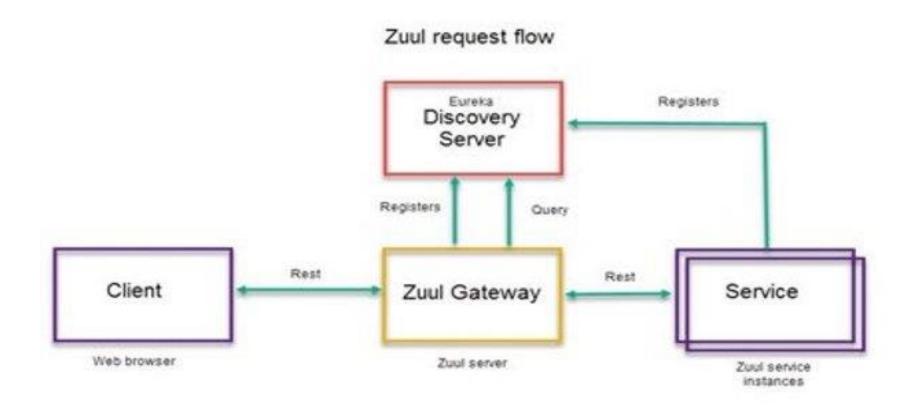


Spring Security Use Case





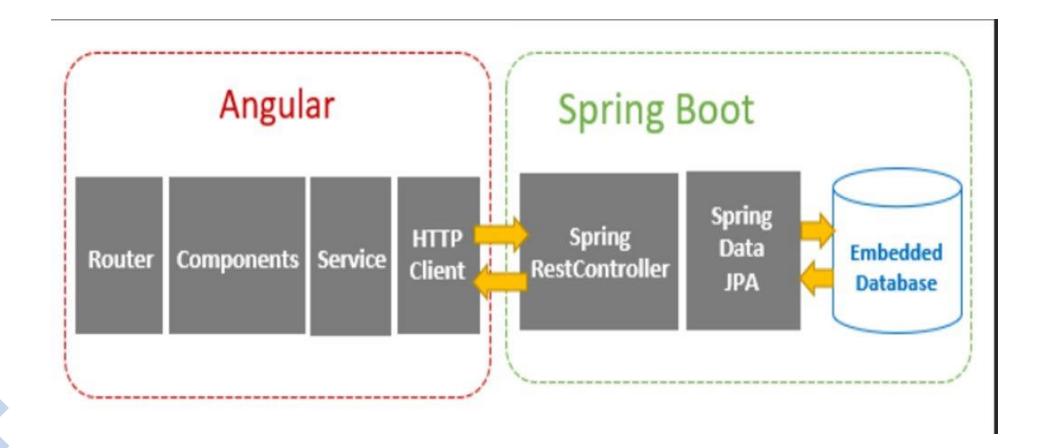
Microservice Architecture



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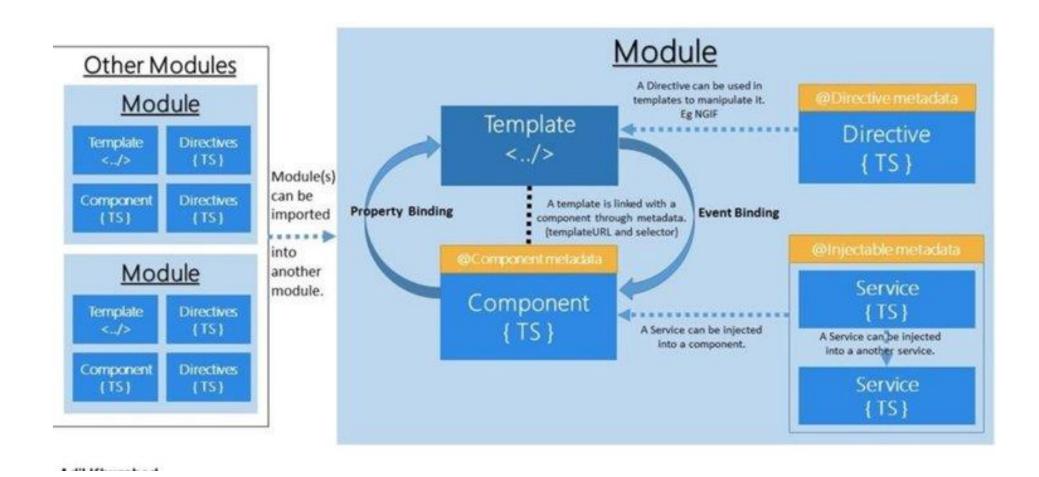


Angular Spring Boot Architecture



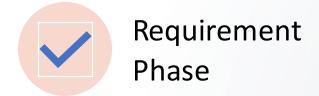


Angular 13 Features





Project Phases





Design Phase



Coding Phase



Requirement Phase

A: Study of websites

B: Internal discussions

Output:

List of requirements



Design Phase



Wire Frame Diagram



Data Base table relationships (Many to Many)

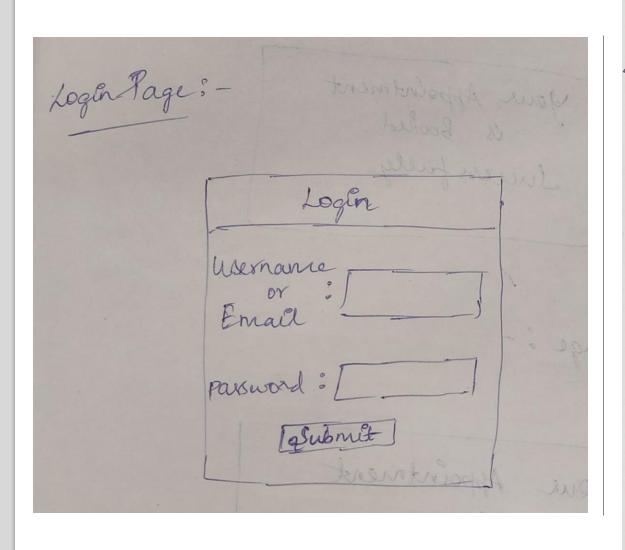


Identify API with input and output

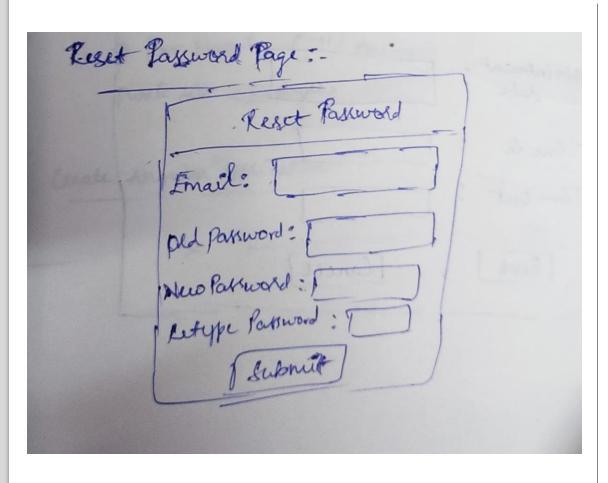


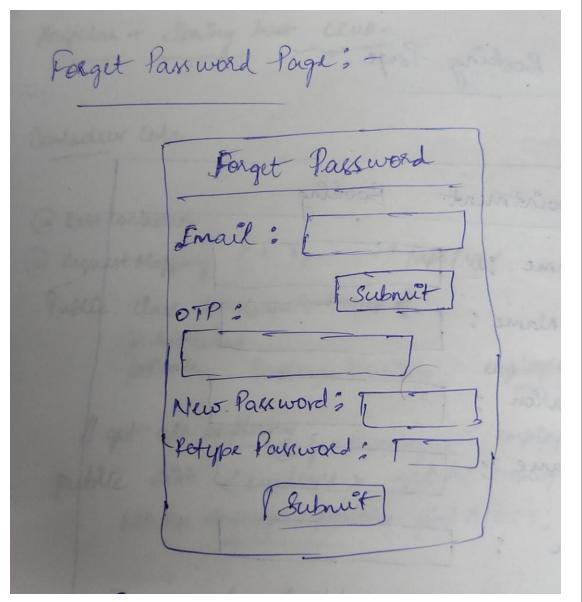
Wire Frame Diagrams





Egn ly fo	ge. Successfully be
	Sign up
	firstname:
	Lastname:
	Username:
	Email:
	Password:
	Confirm Parsword:
	asubmit Cancel





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usuname:	
Hospotal Name:	
Sperialization:	
Location :	
Appointment.	
Tême in :	
Tême Out :	
[Book] [Cancel]	

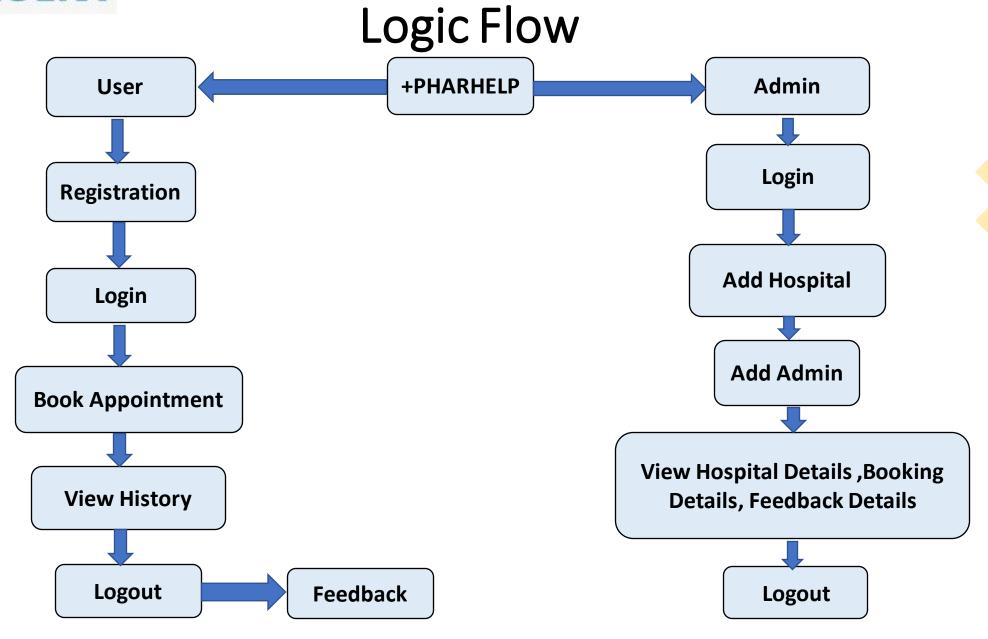
Succes	s Page:
	- Lividulpi
	your Appointment
	U LB
	beoked Successfully
	Can W Man
	(c)



API Details

S.no	API & Microservice	Input	Data Type	Output
1)	Login	Username, Password	String	JWT Authentication
2)	Signup (Many to Many)	Firstname, Lastname, Username Password	String	User Registration
3)	Appointment Booking	Username, Date. Hospitalname, Location DoctorName, Time in Specialization, Time out	String, Local Time, LocalDate	Appointment Details
4)	Doctors(Hospital)	Id, Hospitalname, Name, Location, Time in, Time out, Specialization	String, Local Time, LocalDate	Doctor Details
5)	Customer Feedback (Microservice)	Name, Email, Phone number, comments	String, Int	Feedback Details





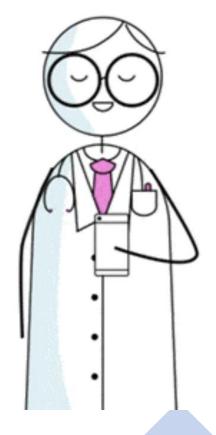




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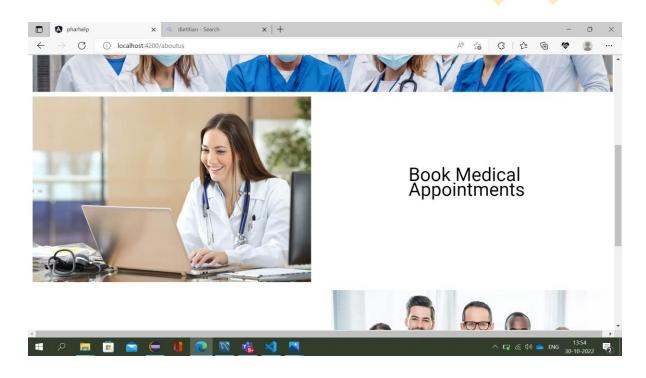
About-Us Sign-in Sign-up

Medical Appointments

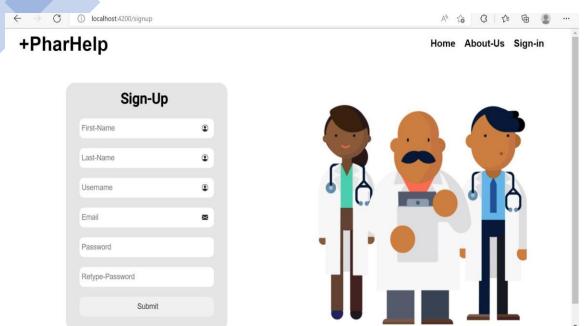








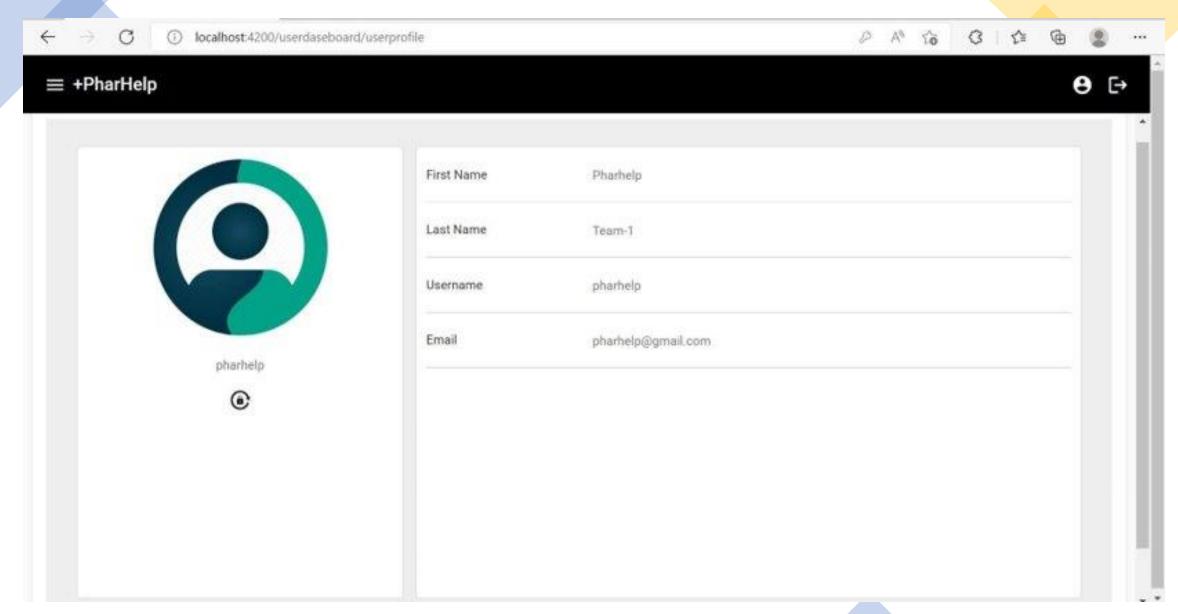






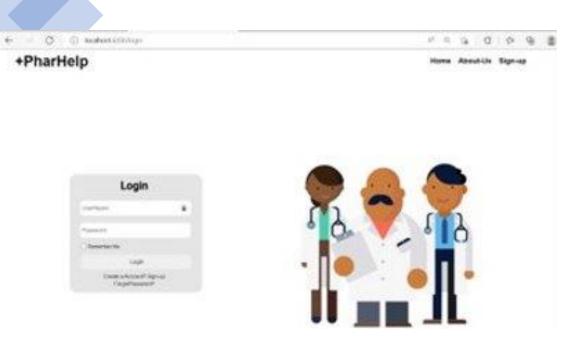






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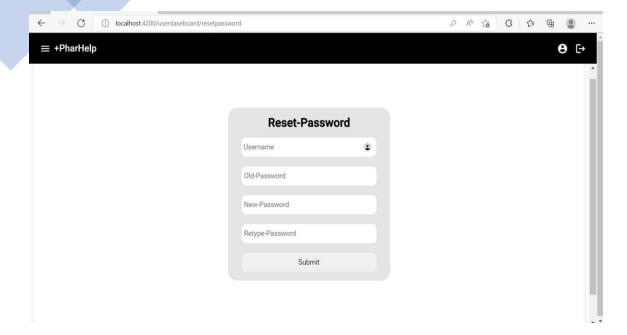


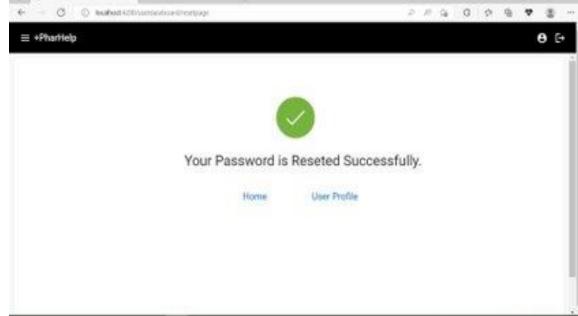




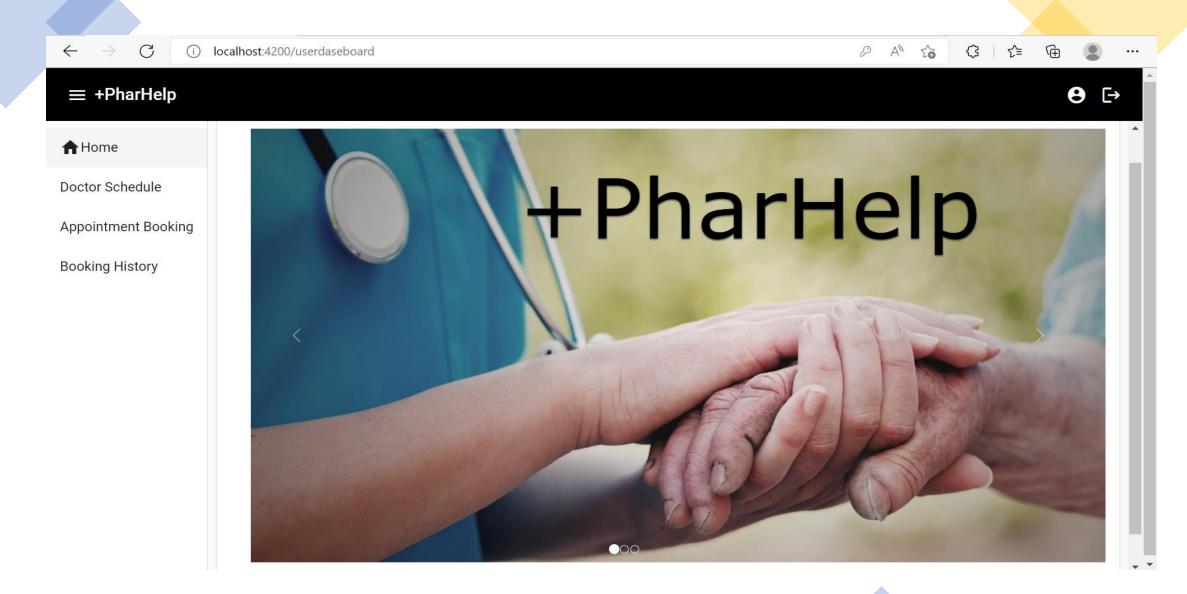
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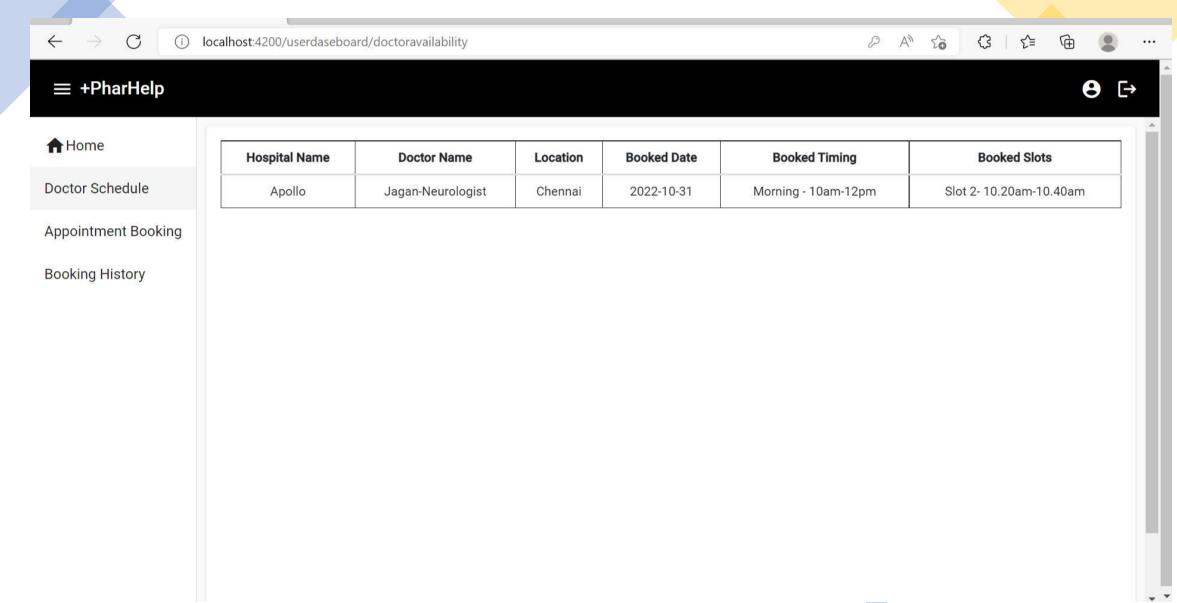




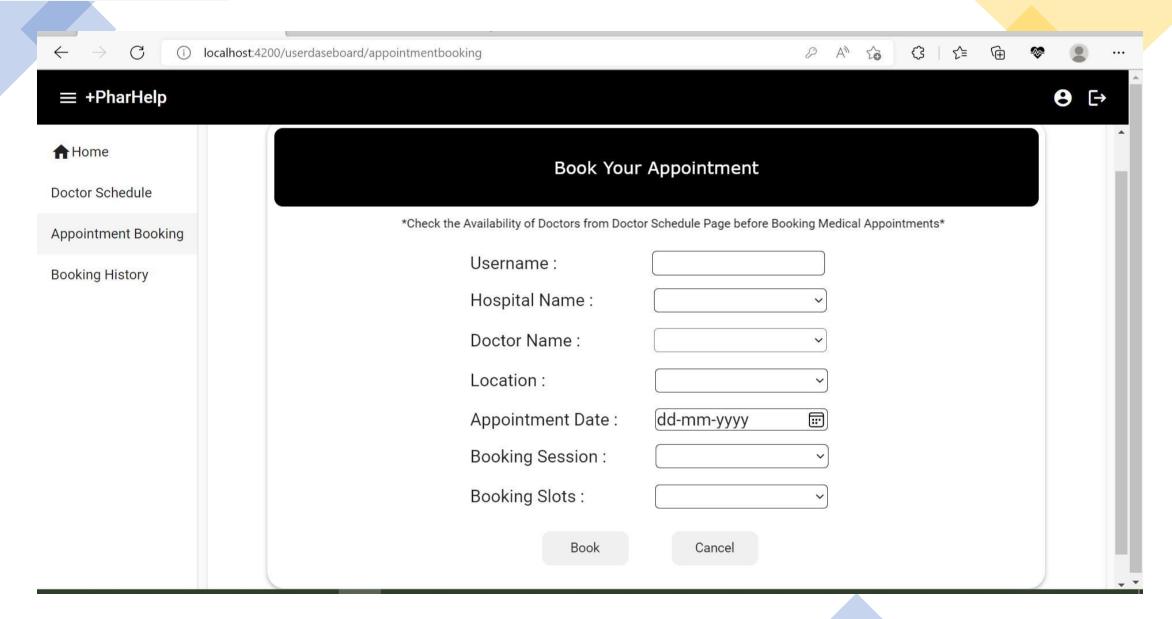


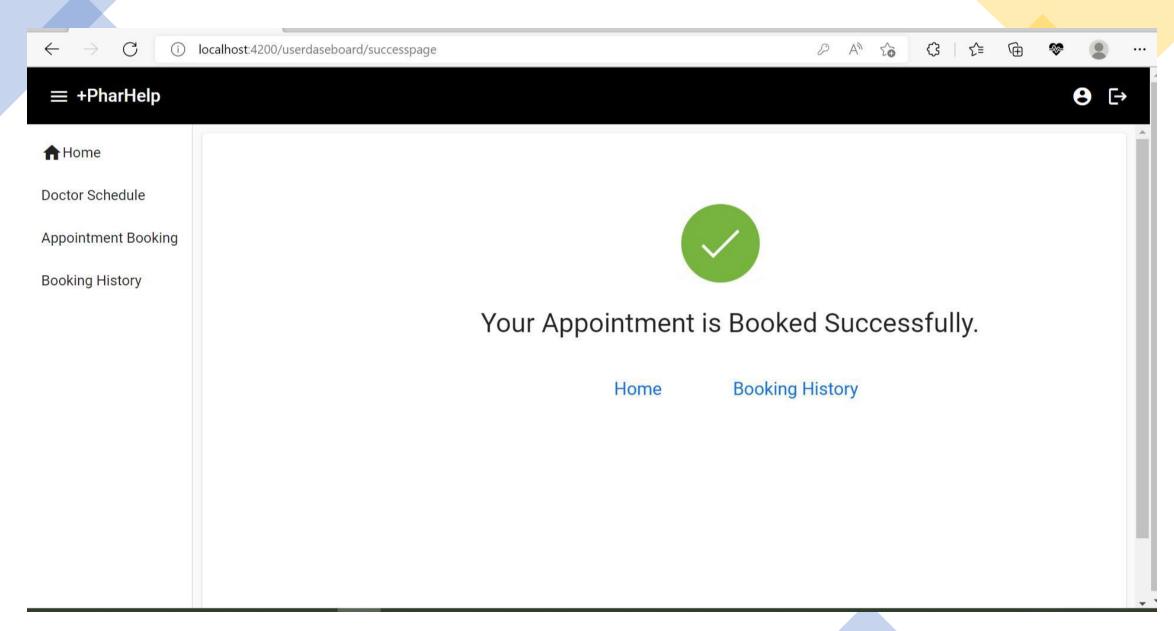




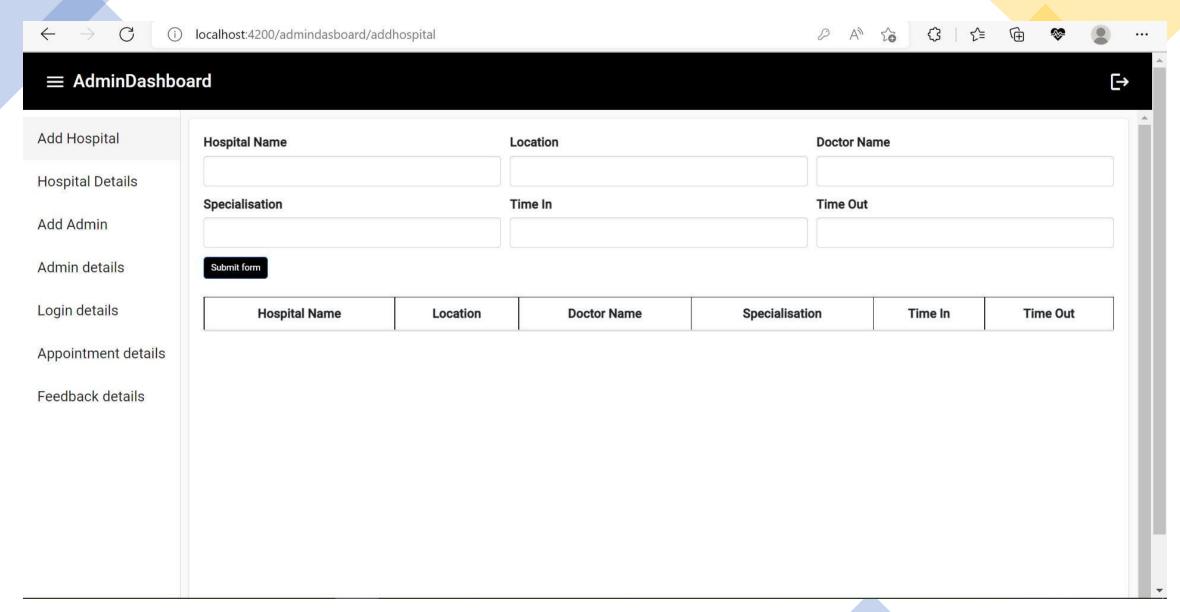
















(1) localhost 4200/admindasboard/getdoctors











■ AdminDashboard



Add Hospital

Hospital Details

Add Admin

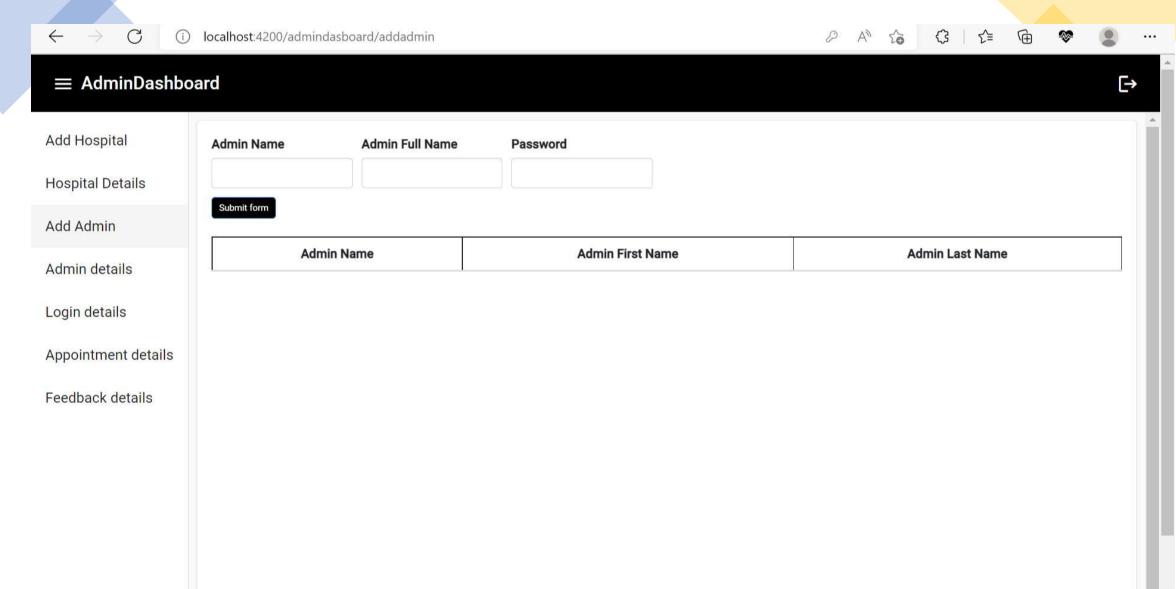
Admin details

Login details

Appointment details

Hospital Name	Location	Doctor Name	Specialisation	Time In	Time Out
Apollo	Chennai	Balaji	General	10.00am	12.00pm
Frontline	Chennai	Sujith	Dietitian	10.00am	12.00am
Newlife	Chennai	Prasad	Neurologist	6.00pm	8.00pm
Grace	Chennai	Yogeshwaran	General	6.00pm	8.00pm
Angelwalk	Chennai	Anjali	Cardiologist	10.00am	12.00am













(i) localhost:4200/admindasboard/getadmin













\equiv AdminDashboard



Hospital Details

Add Admin

Admin details

Login details

Appointment details

Admin Name	Admin First Name	Admin Last Name	
admin123	admin	admin	
balaji	admin	admin	
hari	admin	admin	
naveen	admin	admin	
raghu	admin	admin	





localhost: 4200/admindasboard/getuser













\equiv AdminDashboard



Add Hospital

Hospital Details

Add Admin

Admin details

Login details

Appointment details

Username	First Name	Last Name	Email
admin123	admin	admin	admin@gmail.com
balaji	admin	admin	admin@gmail.com
hari	admin	admin	admin@gmail.com
naveen	admin	admin	admin@gmail.com
pharhelp	Pharhelp	Team-1	pharhelp@gmail.com
raghu	admin	admin	admin@gmail.com





\equiv AdminDashboard



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Add Hospital

Hospital Details

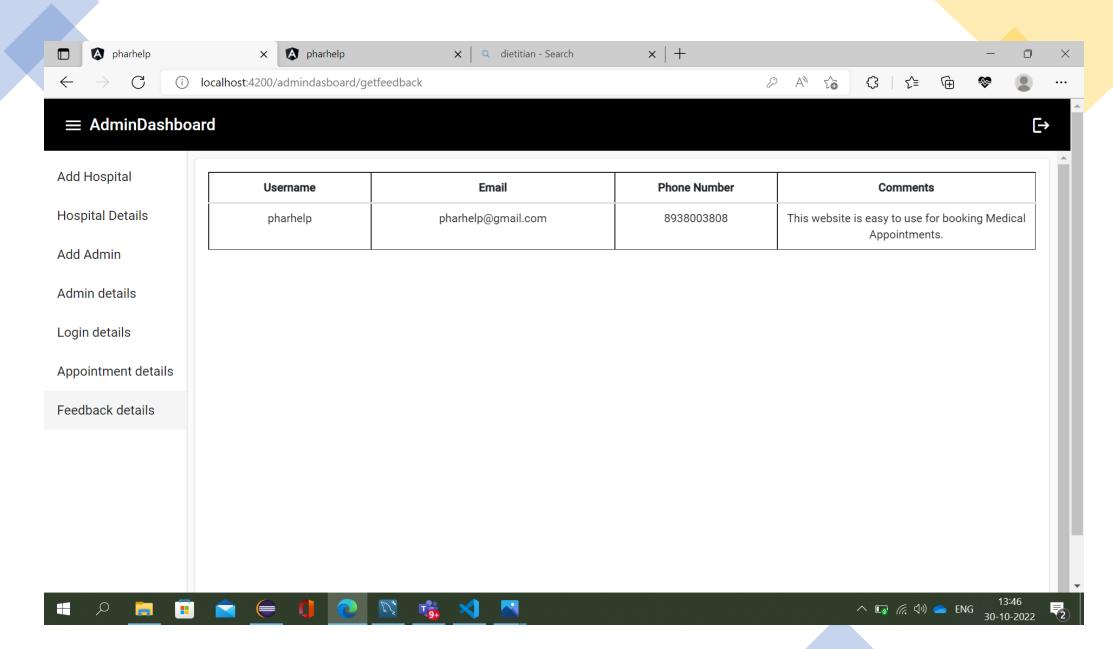
Add Admin

Admin details

Login details

Appointment details

Username	Hospital Name	Doctor Name	Location	Date	Booking Timing	Booking Slots
pharhelp	Apollo	Jagan-Neurologist	Chennai	2022-10-31	Morning - 10am-12pm	Slot 2- 10.20am-10.40am



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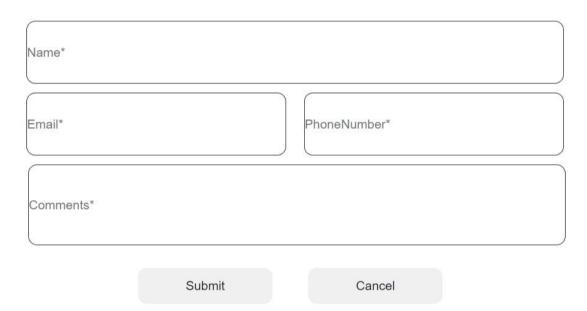


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(i) localhost:4200/feedback

Home About-Us Sign-in Sign-up

Customer Feedback







+PharHelp

Home About-Us Sign-in Sign-up





Coding Phase

Database Design

Rest API Coding using spring boot

Spring security including JWT

Angular component design using Angular Material

Code review Lenits tool using Eclipse IDE



Training Goals

	S.NO	Set Goals	Accomplished Goals
	1	Core Java Programming, Full Stack Java	Learnt concepts and need time to practice Programming
	2	Database – CRUD – JDBC – JPA/HIB	Learnt concepts and need time to practice Programming
	3	Spring Rest API Programming	Learnt concepts and need time to practice Programming
	4	Micro service Programming	Learnt concepts and need time to practice Programming
	5	Web Page Development – HTML/CSS	Learnt concepts and need time to practice Programming
	6	Script Programming (JS/TS)	Learnt concepts and need time to practice Programming
	7	Angular Programming	Learnt concepts and need time to practice Programming
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