

# **COVID-19 HOSPITALS AND VACCINE MANAGEMENT SYSTEM**

## **A Mini Project Abstract**

Submitted to the Faculty of Engineering of

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA,  
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In partial fulfilment of the requirements for the award of the Degree of

**BACHELOR OF TECHNOLOGY**

In

**COMPUTER SCIENCE AND ENGINEERING**

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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**SESHADRI RAO GUDLAVALLERU ENGINEERING COLLEGE**

(An Autonomous Institute Permanently affiliated to JNTUK)

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**GUDLAVALLERU – 521356**

**ANDHRA PRADESH**

**2021-2022**

# **SESHADRI RAO GUDLAVALLERU ENGINEERING COLLEGE**

(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)  
SESHADRI RAO KNOWLEDGE VILLAGE, GUDLAVALLERU

## **DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**



### **CERTIFICATE**

This is to certify that the project report entitled "**COVID-19 HOSPITALS AND VACCINE MANAGEMENT SYSTEM**" is a bonafide record of work carried out by Sk. Farheen (19481A05L8), V. Venkata Teja (19481A05O3), V. Mohan Sai (20485A0523) under the guidance and supervision of **Dr. G. SRIDEVI** in the partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, Kakinada during the academic year 2021-22.

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## ABSTRACT

COVID-19 became a life-threatening problem. It impacted the world both socially and economically. It's been around 2 years but still people are facing many difficulties in finding hospitals that diagnose COVID-19 and vacant beds for treatment. These days, when people get infected, they get into confusion with their health condition and availability of hospital appointments. Also, some of the patients are losing their life without proper idea about the remedies, diagnosis and hospital bed vacancy. So, to overcome this, we need a platform that gives nearby available hospital information, also to book the appointments, available beds in hospitals at their preferred locations with ease.

To stay safe from COVID-19 infection, one of the main measures, is to get vaccinated. Vaccination gives immunity to human body against coronavirus. So, each and every person has a responsibility to get vaccinated. Also, to get vaccinated there must be good visibility regarding vaccination centres and slots availability. So, it would be very helpful to have a website to know all the information and to book the vaccination slots.

Our project is about creating a web application that gives the information about the nearby hospitals and allows to take appointments, book beds if prescribed. Also, to book available slots of vaccination, along with the suggestions and guidelines based on symptoms severity.

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## CHAPTER-1

### INTRODUCTION

#### 1.1 INTRODUCTION

COVID-19 became a life-threatening problem. It impacted the world both socially and economically. It's been around 2 years but still people are facing many difficulties in finding hospitals that diagnose COVID-19 and vacant beds for treatment. These days, when people get infected, they get into confusion with their health condition and availability of hospital appointments. Also, some of the patients are losing their life without proper idea about the remedies, diagnosis and hospital bed vacancy. So, to overcome this, we need a platform that gives nearby available hospital information, also to book the appointments, available beds in hospitals at their preferred locations with ease.

To stay safe from COVID-19 infection, one of the main measures, is to get vaccinated. Vaccination gives immunity to human body against coronavirus. So, each and every person has a responsibility to get vaccinated. Also, to get vaccinated there must be good visibility regarding vaccination centres and slots availability. So, it would be very helpful to have a website to know all the information and to book the vaccination slots.

#### 1.2 PROBLEM STATEMENT

Some of the problems that we have noticed are

- Patients are facing difficulty in finding hospitals diagnosing Covid19.
- No visibility on available hospital beds and appointments in desired location.
- Patients are breaking Covid-19 protocols and physically visiting hospitals just to find and take appointments.

### 1.3 EXISTING SYSTEM

- To monitor present COVID-19 situation we have many platforms that analyze and display statistics of COVID infected victims. Also, about availability of vaccination slots and bookings.
- But there's no source to know hospitals that diagnose COVID and their availability of appointments and beds.
- At present, patients have only one way of taking appointments that is by visiting hospitals, clinics which is not good for their health condition and this also leads to the rapid spread of infection.
- Having platform that provides information about nearby hospitals, beds, appointment availability collectively makes user to find all required COVID info at one place.

### 1.4 DISADVANTAGES

- Updating data by every hospitals' supervisor time to time manually.
- Possibility of data breach.
- Some security related issues can take place in this system.

### 1.5 PROPOSED SYSTEM

- Our COVID-19 Hospitals and Vaccine Management Web Application provides all related information including nearby hospitals, appointments, bed availability, vaccine slot booking at one place.
- Our website has two logins, one for user and other for admin.
- The supervisors of each hospital and vaccinated rooms are the admins who approves the appointments and updates the information.
- Users can find three options – hospitals info & appointments, vaccine slot availability & booking, self-assessment based on symptoms.

## 1.6 ADVANTAGES

- COVID patients can easily book online appointments in nearby hospitals.
- Patients can find beds with ease.
- Our web application has a rating option and users can filter hospitals with it.
- Vaccination slots can also be booked, making users to stop at one website for all their COVID-19 needs.

## CHAPTER-2

### REQUIREMENT ANALYSIS

#### **2.1 FUNTIONAL REQUIREMENTS**

**Validity Check:** In order to gain access to the system, the user is required to enter his/her correct username and password. The user can logins one time into the account and complete his Registration.

##### **Check Out**

- Deleting Patient ID: The staff in the administration section of the ward /hospital admin can delete the patient ID from the system when the patient's checkout from the hospital.
- Adding to beds available list: The Staff in the administration section of the ward/hospital admin can put the bed empty in the list of beds-available.

**Database:** Every patient has some necessary data like phone number, their first and last name, postal code, country, address, city, 'patient's ID number, etc.

**Error Handling response to Abnormal Situations:** If any of the above validation/sequencing flow does not hold true, appropriate error messages will be displayed

#### **2.2 NON FUNTIONAL REQUIREMENTS**

- Availability: Website will be available for the user at any time.
- Safety: Information transmission is securely transmitted to server without any changes in Information
- High Performance
- Highly Reliability
- Maintainability

## 2.3 SOFTWARE REQUIREMENT SPECIFICATIONS

- Operating System – Windows
- Notepad++
- Xampp Server
- Any Browser

**Domain:** Web Technology

**Front end:** HTML, CSS, JavaScript, Bootstrap

**Back end:** PHP, MySQL

## 2.4 HARDWARE SPECIFICATIONS

- Processor - Intel Processor
- Speed - 1.1GHz
- RAM - 4GB (min)

## CHAPTER-3

### DESIGN

#### **3.1 SYSTEM ARCHITECTURE**

Architecture can be referred to as a flow diagram, from where the user enters down to the CPU of the server and the power cord connected to it.

Web applications are made up of two primary components:

- **Client-side**, popularly called: the frontend, where the code is written in HTML, CSS, JavaScript and stored within the browser. It's where user interaction takes place.
- **Server-side**, also known as the backend, controls the business logic and responds to HTTP requests. The server-side code is written in Java, PHP, Ruby, Python, etc.

Apart from this, there is an additional component i.e. database server, which sends the requested data to the server-side.

#### **3.2 UML DIAGRAMS**

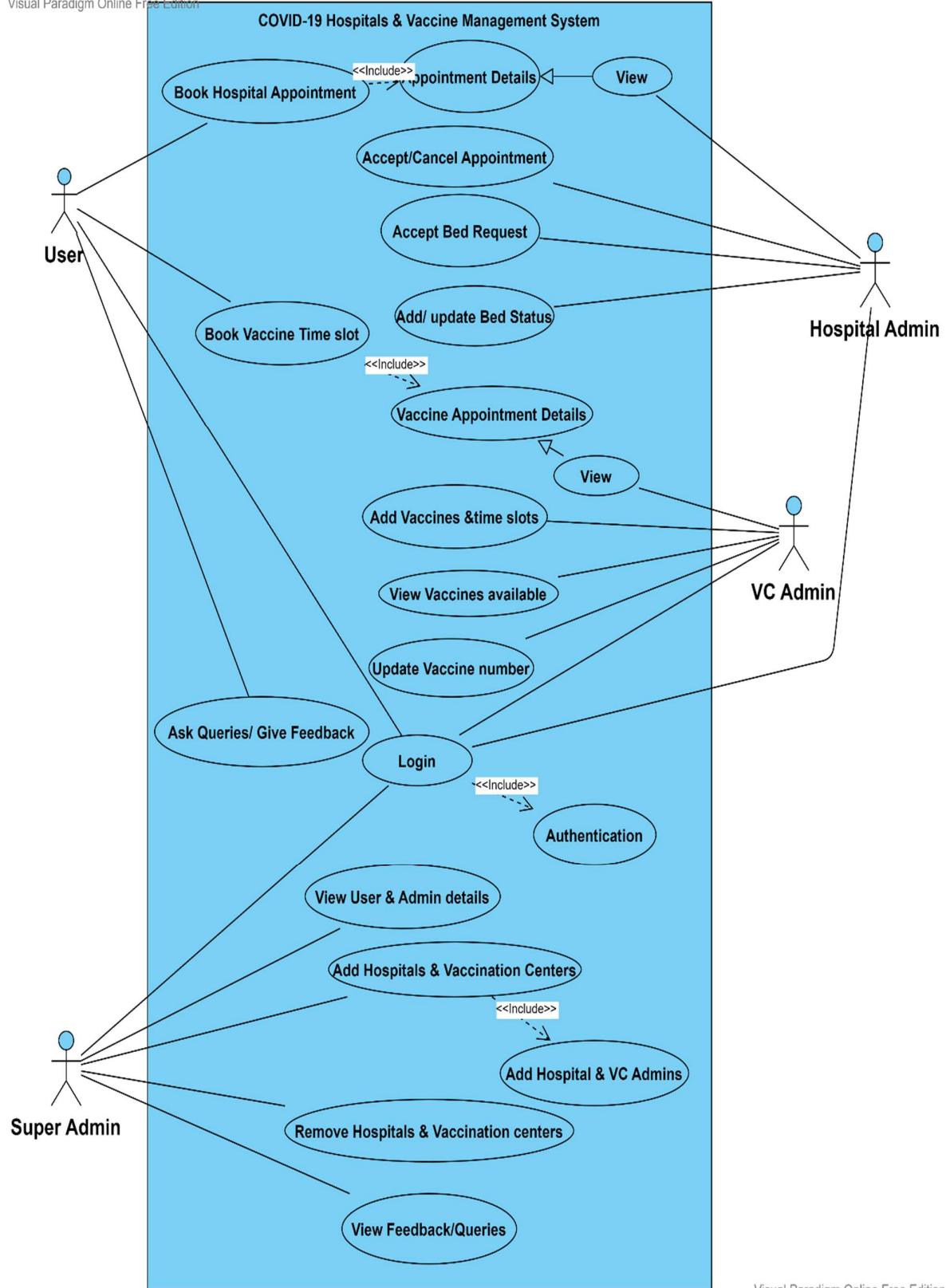
The elements are like components which can be associated in different ways to make a complete UML picture, which is known as diagram. Thus, it is very important to understand the different diagrams to implement the knowledge in real-life systems.

##### **3.2.1 USECASE DIAGRAM**

The Use Case Diagram is a graphic depiction of the interactions among the elements of the system. The actors of our system are User, Hospital Admin, Vaccination centre Admin and Super Admin.

The relationships between and among the actors and the use cases of COVID-19 Hospitals and Vaccine Management System is shown in Fig:01

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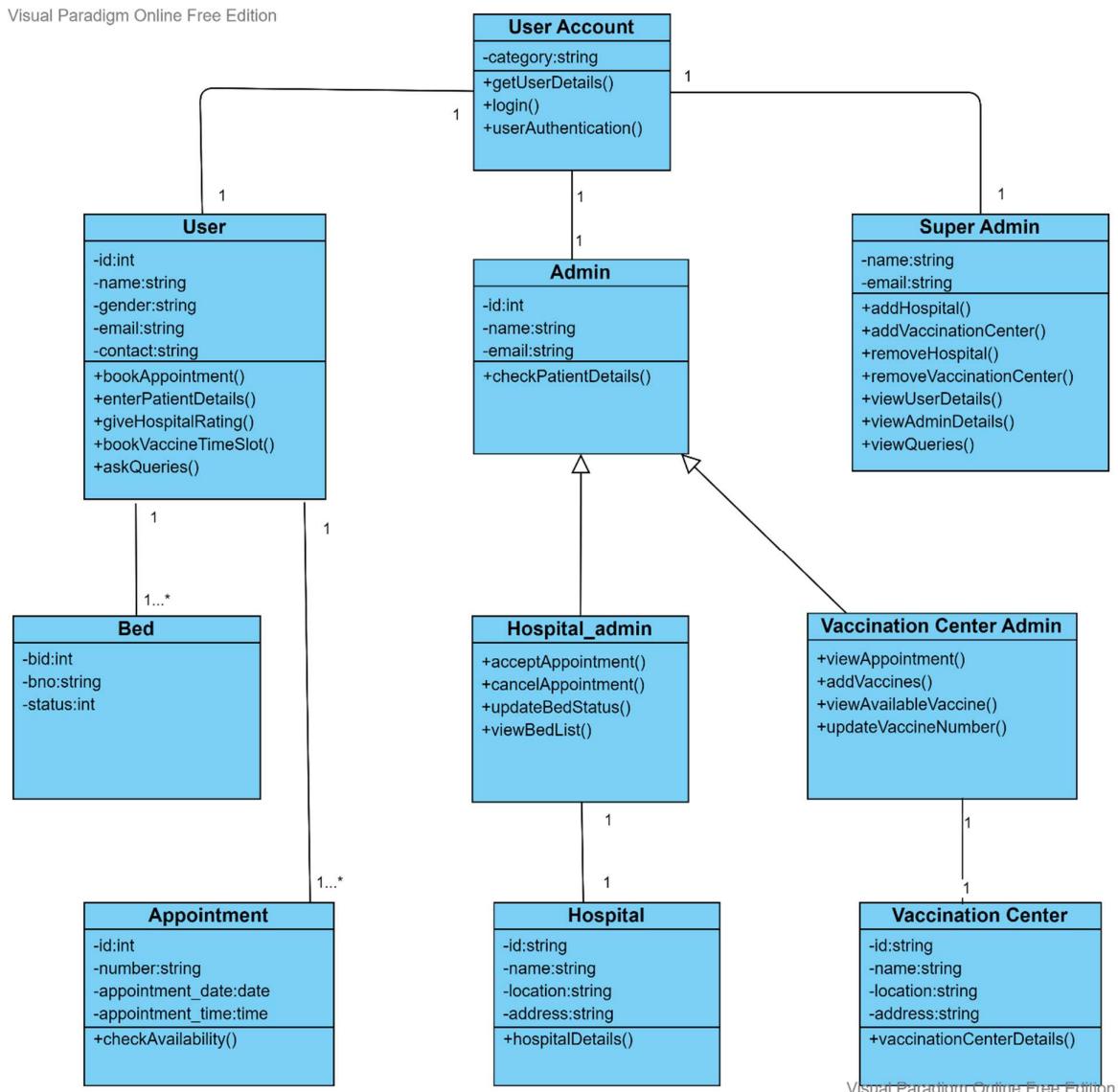
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**Fig 01: Use case Diagram**

### 3.2.2 CLASS DIAGRAM

Class diagram is a type of structure diagram because they describe what must be present in the system being modelled. It specifies the methods or operations that the class may use/perform.

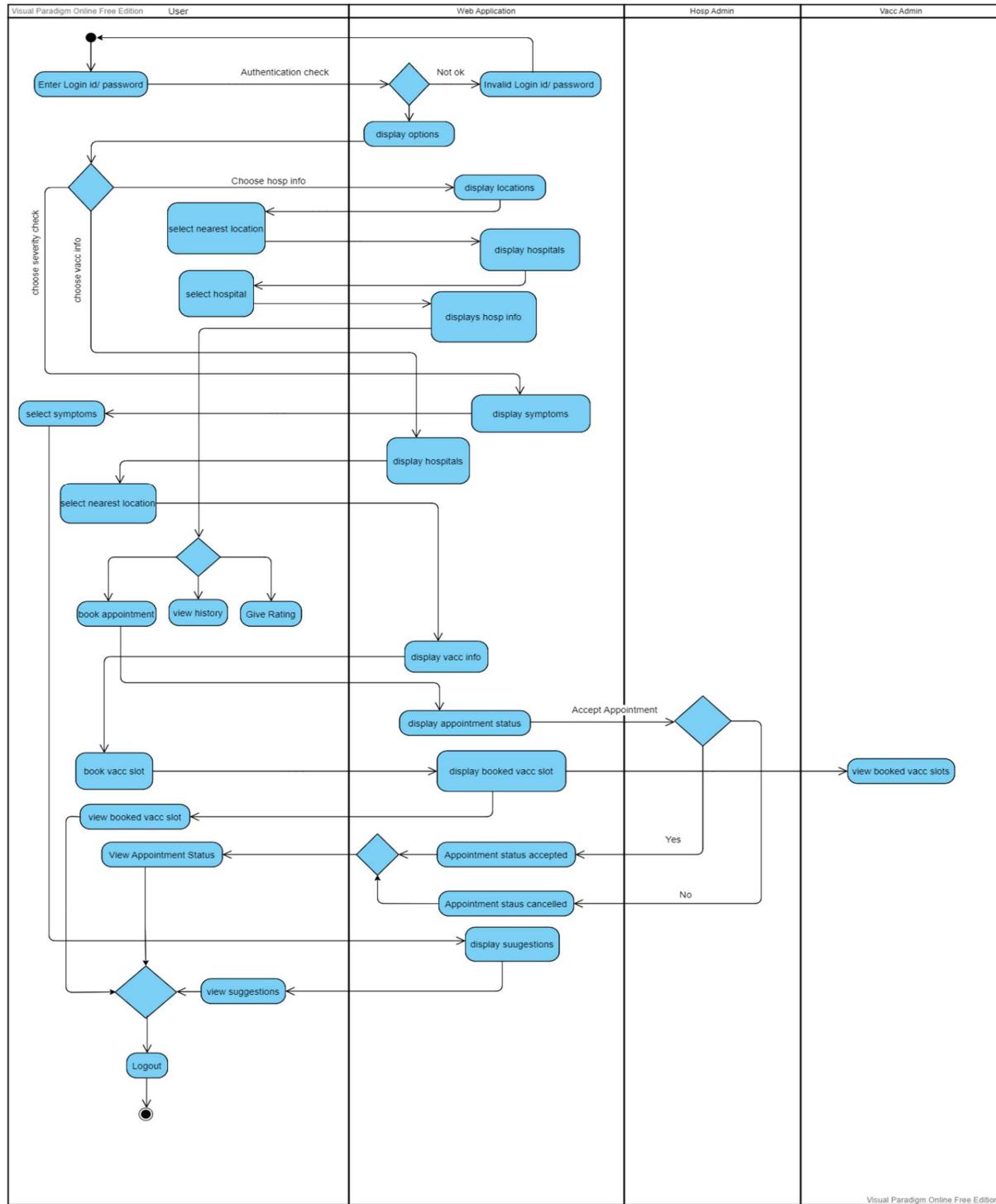
In this system we have 10 classes, they are User, Admin, Super Admin, User Account, Bed, Hospital admin, Vaccination Centre Admin, Appointment, Hospital, Vaccination Centre as shown in Fig:02



**Fig 02: Class Diagram**

### 3.2.3 ACTIVITY DIAGRAM

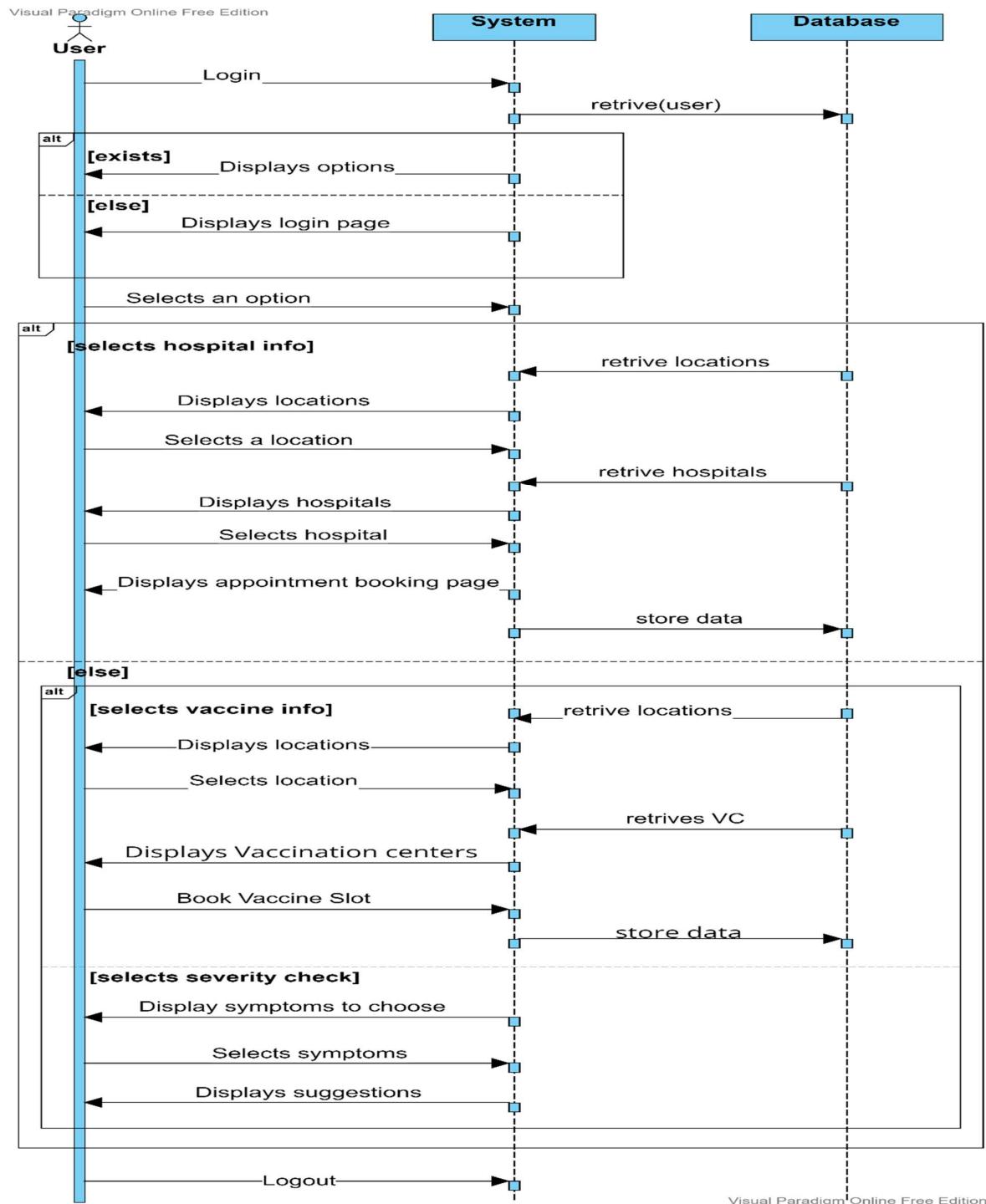
An activity diagram portrays the control flow from a start point to a finish point showing the various decision paths that exist while the activity is being executed.



**Fig 03: Activity Diagram**

### 3.2.4 SEQUENCE DIAGRAM

The sequence diagram captures the time sequence of the message flow from one object to another object.



**Fig 04: Sequence Diagram**

## CHAPTER 4

### IMPLEMENTATION

#### 4.1 TECHNOLOGY DESCRIPTION

Computer programming (often shortened to programming or coding) is the process of designing, writing, testing, debugging / troubleshooting, and maintaining the source code of computer programs. This source code is written in a programming language.

##### 4.1.1 HYPER TEXT MARKUP LANGUAGE

Hyper Text Markup Language (HTML), the language World Wide Web(WWW) allows user to produce Web pages that include text, graphics and pointer to other web pages. HTML is not a programming language but is an application of ISO Standard 8879, SGML (Standard Generalized Markup Language), but specialized to hypertext and adapted to the web. The idea behind Hypertext is that instead of reading text in rigid linear structure, we can easily jump from one point to another point. We can navigate through the information based on our interest and preference. A markup language is simply a series of elements, each delimited with special, characters that define how the text or other items enclosed within the elements should be displayed.

Important Points:

- In HTML ,formatting is specified by using tags.
- A tag is a format name surrounded by angle brackets

Syntax: <NameOfTag>-----Content-----</NameOfTag>

## 4.1.2 CSS (CASCADING STYLE SHEET)

### 4.1.2.1 Introduction

CSS stands for Cascading Style Sheet. CSS describes how HTML elements are to be displayed on screen, paper, or in other media. CSS saves a lot of work. It can control the layout of multiple web pages all at once. External style sheets are stored in CSS files.

### 4.1.2.2 CSS RULES

CSS rule is made up of 2 parts

1. **Selector:** Element/ set of elements to which declaration must be applied
2. **Declaration:**
  - i. Property: CSS property that is to be applied.
  - ii. Value: Value of CSS property.

**Syntax:** Selector {property1:value; property2:value;}

### 4.1.2.3 Types Of CSS

- Inline CSS –used to style a specific HTML element in the code.
- Internal CSS – used if one single page has a unique style.
- External CSS - used when we need to apply particular style to more than one web page

## 4.1.3 JavaScript

JavaScript (often shortened to JS) is a lightweight, interpreted, object-oriented language with first-class functions, and is best known as the scripting language for Web pages, but it's used in many non-browser environments as well.

JavaScript runs on the client side of the web, which can be used to design / program how the web pages behave on the occurrence of an event.

#### **4.1.4 BOOTSTRAP**

Bootstrap is a free and open source front end development framework for the creation of websites and web apps. The Bootstrap framework is built on HTML, CSS, and JavaScript (JS) to facilitate the development of responsive, mobile-first sites and apps. Bootstrap 5 is the newest version of Bootstrap. Bootstrap includes user interface components, layouts and JS tools along with the framework for implementation.

#### **4.1.5 PHP**

PHP is an acronym for “PHP: Hypertext Preprocessor”. PHP is a server scripting language, and a powerful tool for making dynamic and interactive Web pages. It is a widely used, open source scripting language. PHP files can contain text, HTML, CSS, JavaScript and PHP code. PHP code are executed on the server and the result is returned to the browser as plain HTML.

#### **4.1.6 MySQL**

MySQL is an open source, fast reliable, and flexible relational database management system, used with PHP. It is a database system, used for developing web-based software applications. It is used for both small and large applications.

MySQL server design is multi-layered with independent modules. It is fully multithreaded by using kernel threads. It can use multiple CPUs if they are available.

## 4.2 INSTALLATION STEPS

### 4.2.1 XAMPP TOOL

XAMPP stands for cross-platform, Apache, MySQL, PHP and Perl. It's a simple and lightweight solution that allows you to create a local web server for testing purposes. Since XAMPP is cross-platform, it also works on Mac and Linux, but today we're going to focus on how to set up XAMPP on Windows 10.

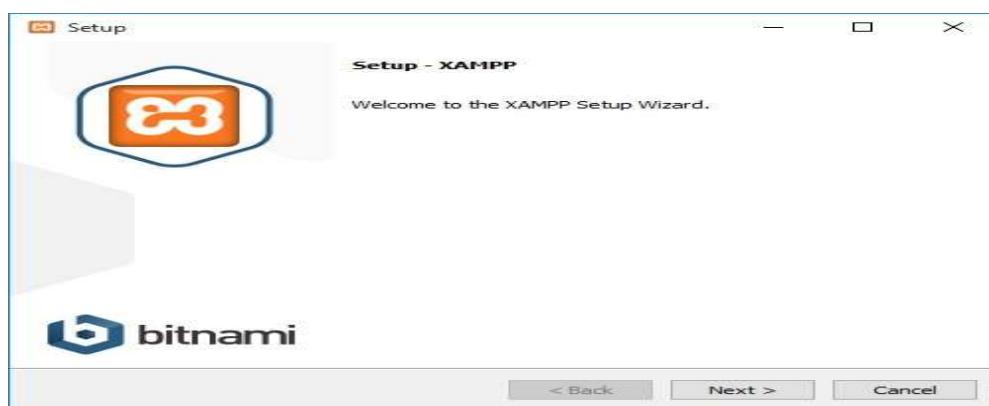
### 4.2.2 INSTALLING XAMPP

**Step 1:** Go to the Apache Friends website and download XA

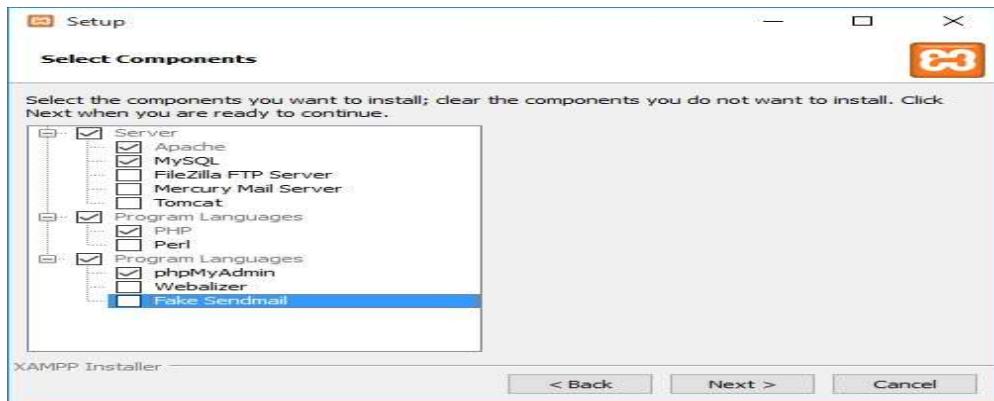


**Step 2:** Launch the installer.

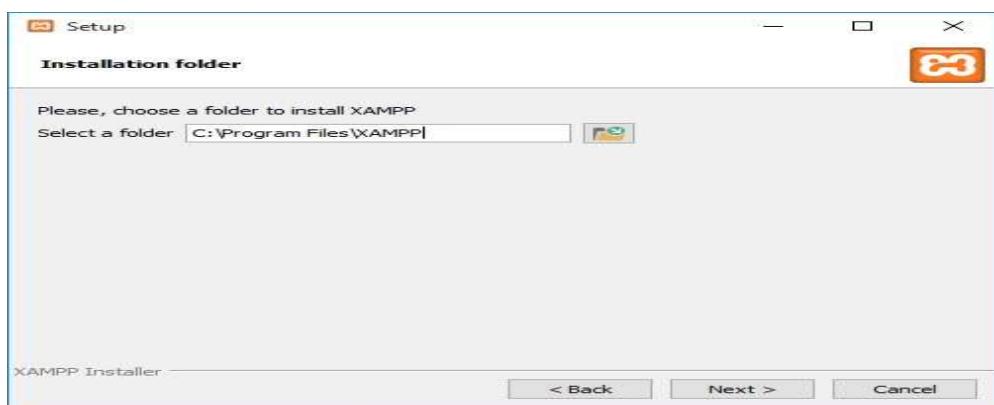
**Step 3:** We will start with a setup window as in below figure.



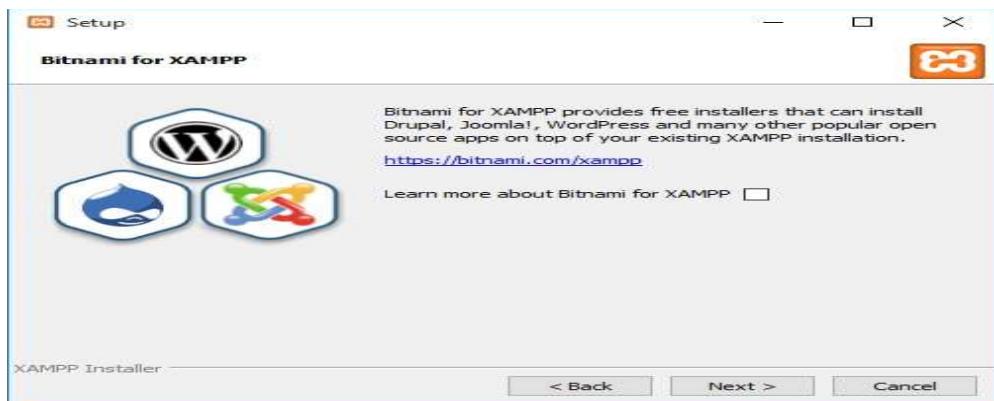
**Step 4:** In the component window select next.



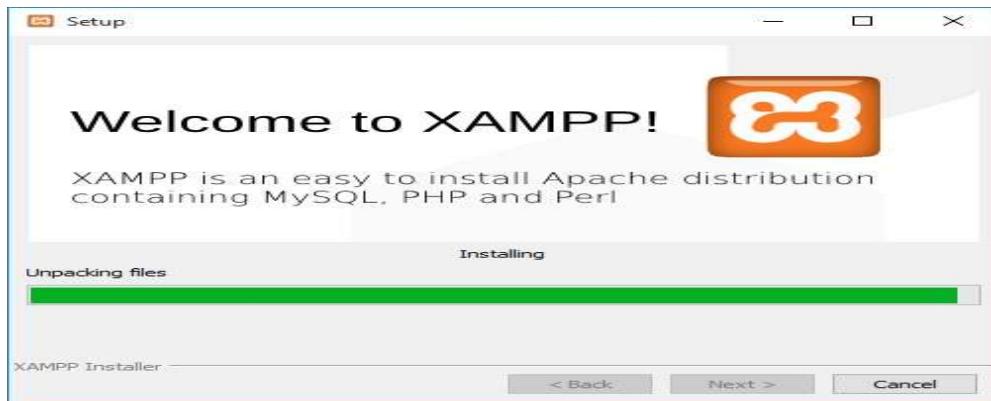
**Step 5:** Select the folder where you would like to install XAMPP on your machine.



**Step 7:** In the next window, you'll be asked whether you would like to install Bitnami for XAMPP, which offers free tools for installing WordPress, and Joomla! on top of XAMPP.



**Step 8:** After going through all those initial installation steps, XAMPP is now finally ready to install. Click Next.



**Step 9:** Once installed, you'll be asked whether you would like to start the XAMPP Control Panel, which provides an interface for running your localhost environment. Leave this option ticked and click **Finish**.



#### 4.2.3 RUNNING XAMPP

Open Xampp Control Panel and start up both apache and Mysql.



To check for our successful running software, open any browser and type in Address bar: “localhost” (or) “localhost:port number”. Then you should see the below window of xampp.



## 4.2 PROCEDURE FOR EXECUTION

**Step-1:** Open Xampp control panel and start MySQL and Apache.

**Step-2:** Go to web Browser and open dashboard by typing Localhost: port number/dashboard”. Click PhpMyAdmin and create a database of name “hmsdb”. Load the sql file to create tables in the database.

**Step-3:** Now go to new tab and open the web application by typing – “localhost: port number/folder\_name”.

Ex: localhost:8023/miniproject.

**Step-4:** A home page will be displayed containing registration for new users, User Login, admin Login and Super Admin Login Sections.

### User:

- i. If he/she is a new user then he/she must register in order to use the website.
- ii. After the user logged in three options are displayed – Hospital Info, Vaccine Info, Severity check.
- iii. The user can select any of the options.
- iv. Whenever user clicks hospital info option, list of locations is displayed. User can select the nearest location, then a list of hospitals is displayed.

User can select the hospital and book appointment for that hospital. He/she can also view appointment history and can give rating for the hospital.

- v. Whenever user clicks vaccine info option, a list of locations is displayed. User can select the nearest location, book the Vaccination time slots and can view the appointment history.
- vi. Whenever user clicks severity check option, a list of symptoms is displayed. User can select the symptoms he/she suffering from, then some suggestions are displayed.
- vii. Also, users can ask queries or give feedback to super admin.

### **Admin:**

Supervisor for each hospital and the Vaccination centre are the admins. Admins can login to system by entering his/her own credentials. Admin supervising hospital can view the appointments, accept or cancel the appointments, they can also add or update bed status.

Admins supervising Vaccination centre can view the appointments, add vaccines and update vaccine number.

### **Super admin:**

Super Admin of the web application can view admin's and user's list, they can add hospitals and vaccination centres.

## CHAPTER-5

### TESTING

#### 5.1 BLACK BOX TESTING

Black box testing is a testing technique that ignores the internal mechanism of the system and focuses on the output generated against any input and execution of the system. It is also called functional testing. Black-box testing is a method of software testing that examines the functionality of an application based on the specifications. It is also known as Specifications based testing. This method of test can be applied to each and every level of software testing such as unit, integration, system and acceptance testing. This method attempts to find errors in the following categories:

- Incorrect or missing functions.
- Interface errors.
- Errors in data structures or external database access.
- Behaviour or performance errors.
- Initialization and termination errors.

#### Example of black box testing:

A tester, without knowledge of the internal structures of a website, tests the web pages by using a browser; providing inputs (clicks, keystrokes) and verifying the outputs against the expected outcome. Black box testing method is applicable to the following levels of software testing:

- Integration testing: Testing performed to expose defects in the interfaces and in the interactions between integrated components or systems
- System testing: It is a level of software testing where complete and integrated software is tested. The purpose of this test is to evaluate the system's compliance with the specified requirements.

- Acceptance testing: It is a level of software testing where a system is tested for acceptability. The purpose of this test is to evaluate the system's compliance with the business requirements and assess whether it is acceptable for delivery

### **Advantages**

- Tests are done from a user's point of view and will help in exposing discrepancies in the specifications.
- Tester need not know programming languages or how the software has been implemented.
- Tests can be conducted by a body independent from the developers, allowing for an objective perspective and the avoidance of developer-bias.
- Test cases can be designed as soon as the specifications are complete.

### **Disadvantages**

- Only a small number of possible inputs can be tested and many program paths will be left untested.
- Without clear specifications, which are the situation in many projects, testcases will be difficult to design.
- Tests can be redundant if the software designer/developer has already run a test case.
- Ever wondered why a soothsayer closes the eyes when foretelling events? So is almost the case in Black Box Testing.

#### **5.1.1 TEST CASES**

The test cases in black-box testing can be referred to as outer or external software testing. It is functional test of the software. Test cases are derived to ensure that all statements in the program have been executed at least once during testing and that all logical conditions have been executed. Black box testing is done in the following manner:

- Requirement and specifications will be examined.
- Positive inputs, as well as negative inputs, will be given to the system to verify it.
- Test cases will be executed.
- Actual outputs and expected outputs will be compared.
- Fixed issued will be retested

### **Test case for User Login:**

Sno	Test Case Title	Description	Output
1	Successful User Verification	User tries to login with his/her UserId and password.	Login successful and the user enters in to the system.
2	Unsuccessful User Verification.	User tries to login to the system with a wrong UserId/password.	Login fails and a message is displayed.
3	Booking Appointment at desired hospital.	User selects the hospital and books appointment in the hospital.	Appointment request is placed successfully.
4	Booking Vaccine Appointment at nearest Vaccination Centre	User selects the Vaccination Centre and books appointment for Vaccine.	Appointment is booked successfully.
5	Severity Check	User selects symptoms and submits.	Suggestions are displayed on user's health condition

### **Test cases for Super Admin:**

Sno	Test Case Title	Description	output

1	Successful Super Admin Verification	Super Admin tries to login with his/her userid and password.	Super Admin dash board page is displayed.
2	Unsuccessful Super Admin Verification.	Super Admin tries to login to the system with a wrong UserId/password.	Login fails and an error message is displayed.
3	Add Admin	Super Admin adds admin by assigning userid and password	Admin details Added successfully.

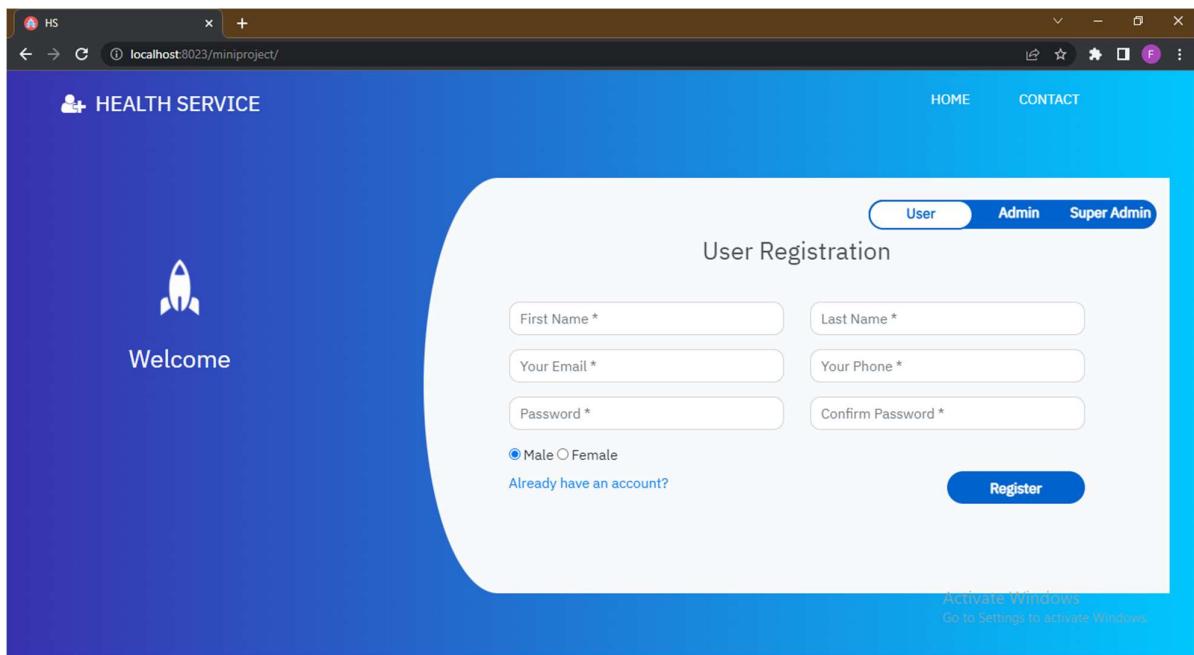
### Test cases for Admin:

Sno	Test Case Title	Description	Output
1	Successful Admin Verification	Admin tries to login with his/her UserId and password.	Admin dash board page is displayed.
2	Unsuccessful Admin Verification.	Admin tries to login to the system with a wrong UserId/password.	Login fails and an error message is displayed.
3	Accept Appointment	Hospital Admin accepts the appointment.	Appointment successfully accepted and an appointment number is generated.
4	Cancel Appointment	Hospital Admin cancels the appointment.	Appointment cancelled successfully.
5	Add/Update Beds	Hospital Admin adds or updates bed status.	Updated Successfully.
6	Add Vaccine	Vaccination Centre Admin adds Vaccine or updates Vaccine number.	Added Successfully.

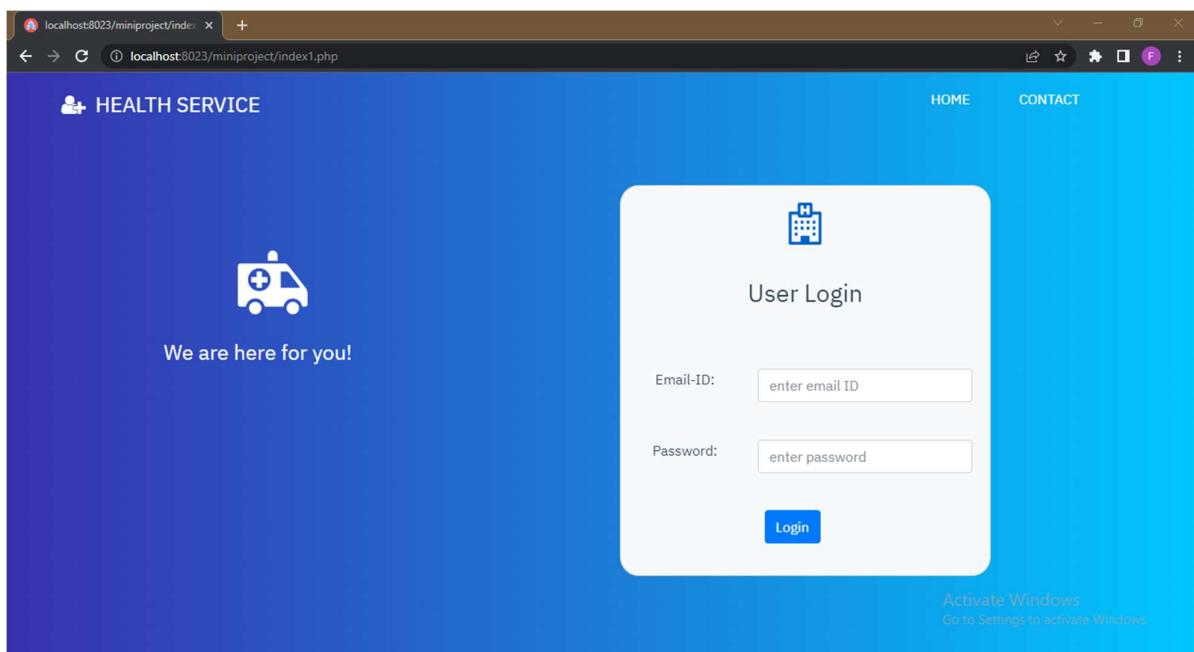
## CHAPTER-6

### SCREENSHOTS

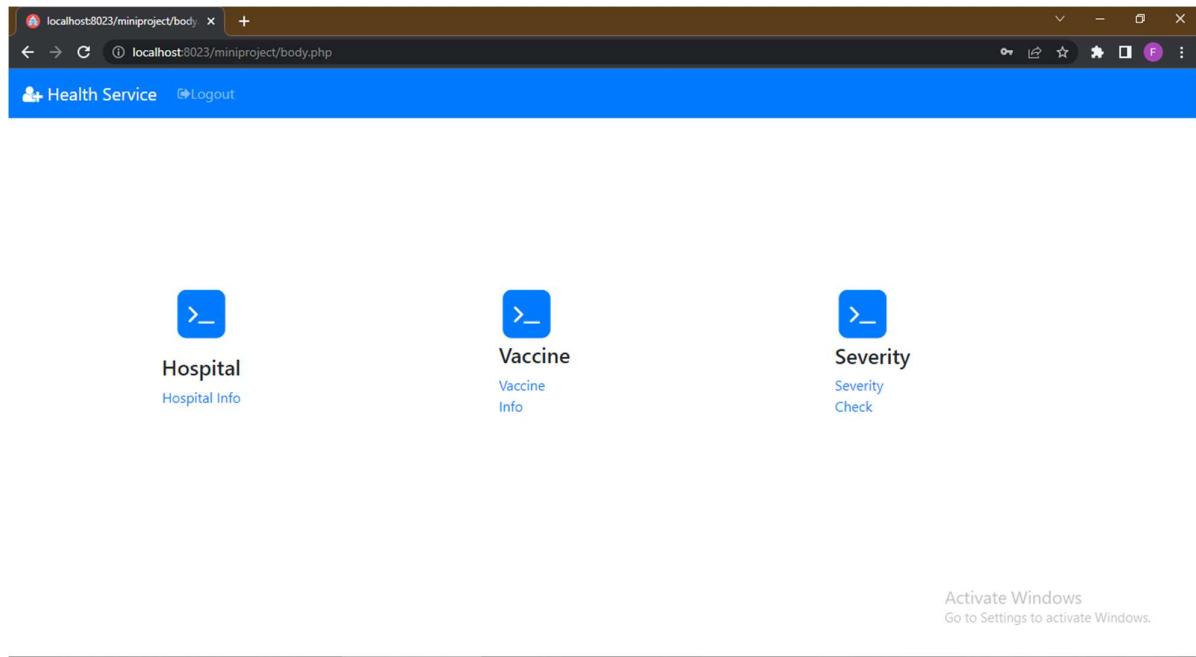
This is home page which contains User Registration and Login Section.



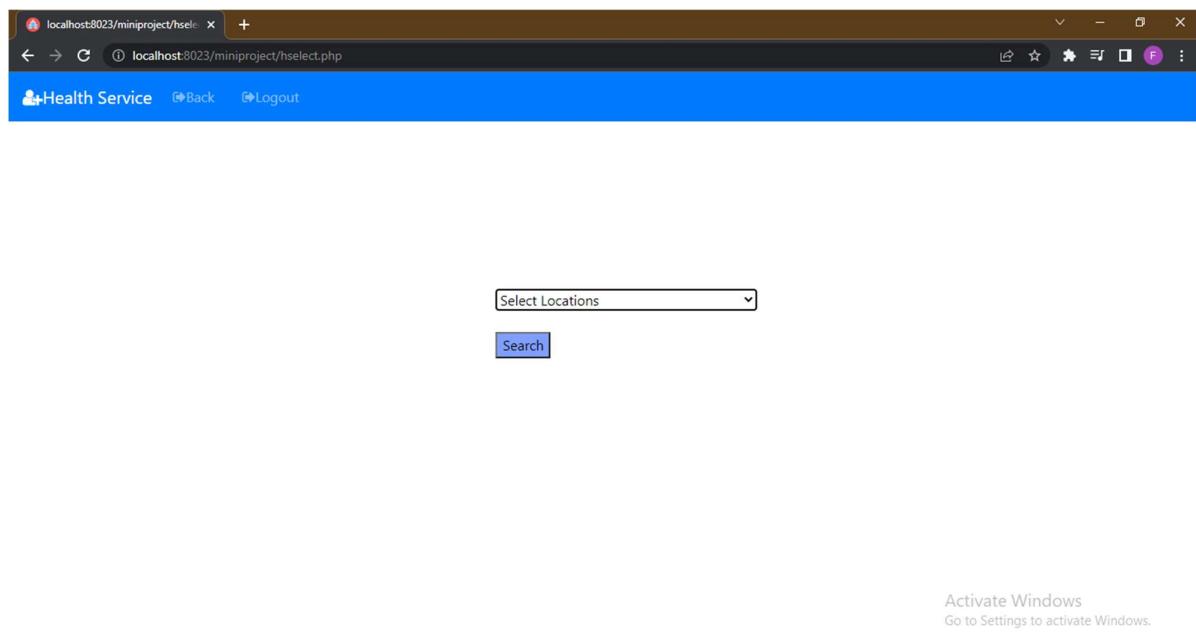
User can login by entering correct Email-Id & Password.



Whenever User login, 3 options are displayed as shown below.



When user clicks Hospital Info option, A drop down list containing locations is displayed.



After selecting location, hospitals list is displayed.

The screenshot shows a web browser window with the URL `localhost:8023/miniproject/perform.php`. The page has a blue header bar with the text "Health Service", "Back", and "Logout". Below the header is a sidebar with a "List" tab selected. The sidebar contains three items: "4+ rating", "3+ rating", and "2+ rating". To the right of the sidebar is a dropdown menu labeled "Select Hospital" with a "Confirm" button below it. At the bottom right of the page, there is a watermark that says "Activate Windows Go to Settings to activate Windows."

After choosing the hospital, the below page is displayed.

The screenshot shows a web browser window with the URL `localhost:8023/miniproject/patient-panel.php`. The page has a blue header bar with the text "Health Service", "Back", and "Logout". Below the header is a sidebar with a "Dashboard" tab selected. The sidebar contains three items: "Book Appointment", "Appointment History", and "Rating". To the right of the sidebar are two main sections: "Book My Appointment" with a "Book Appointment" button and "My Appointments" with a "View Appointment History" button. At the bottom right of the page, there is a watermark that says "Activate Windows Go to Settings to activate Windows."

User can Book Appointment by entering patient details.

**Create an appointment**

Full Name	<input type="text"/>
Email	<input type="text"/>
Appointment Date	<input type="text"/> dd----yyyy
Appointment Time	<input type="button" value="Select Time"/>
<input type="checkbox"/> Request bed (Available beds 1/6)	
Mobile No	<input type="text"/>
Age	<input type="text"/>
Message	<input type="text"/>

Activate Windows  
Go to Settings to activate Windows.

User can view Appointment History.

Name	Phone Number	Message	Appointment Time	Appointment Number	Current Bed Number	Current Bed Status	Appointment Status	Action
S Rani	9290931229	Fever	2022-04-28 10:00:00	8	B5	Accepted	Accepted	<input type="button" value="Cancel"/>

Activate Windows  
Go to Settings to activate Windows.

User can rate the hospital.

Sanjeevani Hospital  
Gudivada Bypass Rd, beside Mithra diagnostics,Rajendra  
Nagar, Teacher Colony, Satyanarayana Pur  
sanjeevani@gmail.com  
8328422519

Whenever user clicks Vaccine info, the below page is displayed where user has to select the nearest location.

Select your nearest Vaccination Center

Select Locations

Search

After selecting locations, the Vaccination center and Vaccines available are displayed as below.

	2022-04-26	2022-04-27	2022-04-28	2022-04-29	2022-04-30	2022-05-01	2022-05-02
CHILAKALAPUDIEUPHC-COVAXIN Machilipatnam Town ,Krishna ,Andhra Pradesh,521002 COVISHIELD Age: 18 & Above Dose: #1	N/A	N/A	<span style="background-color: red; color: white; padding: 2px;">11</span>	N/A	N/A	N/A	N/A
CHILAKALAPUDIEUPHC-COVAXIN Machilipatnam Town ,Krishna ,Andhra Pradesh,521002 COVISHIELD Age: 18 & Above Dose: #2	N/A	<span style="background-color: red; color: white; padding: 2px;">10</span>	N/A	N/A	N/A	N/A	N/A

Activate Windows  
Go to Settings to activate Windows.

After selecting the vaccine at available date. User need to fill the details to book for Vaccination.

**Fill Details**

Time Slot	09:00AM-11:00AM
Aadhaar Number	Aadhaar Number*
Name	
Gender	<input checked="" type="radio"/> Male <input type="radio"/> Female <input type="radio"/> Others
Year of Birth(as in Aadhaar Card in YYYY format)	

**Register**

Activate Windows  
Go to Settings to activate Windows.

Whenever user clicks Severity check option, a list of symptoms are displayed as below. User can select the symptoms and click submit button, then suggestions are displayed.

SYMPTOMS	
	Do you have cough? <input type="checkbox"/>
	Do you have colds? <input type="checkbox"/>
	Are you having Diarrhea? <input type="checkbox"/>
	Do you have sore throat? <input type="checkbox"/>
	Are you experiencing MYALGIA or BODY Aches? <input type="checkbox"/>
	Do you have a headache? <input type="checkbox"/>

Activate Windows  
Go to Settings to activate Windows.

When Hospital Admin logs in the below page is displayed, which contains Appointments, Beds Update, Beds List.

Welcome Ram

- [Dashboard](#)
- [Appointments](#)
- [Beds update](#)
- [Beds List](#)

[View Appointments](#)

[Appointment List](#)

[Beds update](#)

[Beds Update](#)

[Beds List](#)

[Beds List](#)

Activate Windows  
Go to Settings to activate Windows.

Hospital Admin can check the appointments and can accept or reject the appointment request.

Patient ID	Time.	Name	Gender	Age	Email	Contact	Message	Appointment Date	Appointment Time	App Stat
24	2022-04-14 17:56:58	Shaik Farheen	Female	20	shaikfarheen982@gmail.com	9398218249	Hi	2022-04-15	10:00:00	Accepted
26	2022-04-16 12:33:42	Sita	Female	20	sita@gmail.com	2345678901	Sita	2022-04-19	10:00:00	Accepted
28	2022-04-19 15:24:42	srihari	Male	20	srihari@gmail.com	9959993964	www	2022-04-27	10:00:00	Accepted
30	2022-04-26 19:06:21	S Rani	Female	20	rani@gmail.com	9290931229	Fever	2022-04-28	10:00:00	Accepted

Hospital Admin can update or add bed status.

Activate Windows  
Go to Settings to activate Windows.

Vaccination Center Admin finds the below page, whenever logs in.

Vaccination Center Admin can update Vaccine number.

Vaccination Center Admin can add Vaccines.

The screenshot shows a web browser window with two tabs: 'localhost:8023/miniproject/vadmin' and 'localhost:8023 / 127.0.0.1 / hmsc'. The main content area has a blue header bar with 'Health Service' and 'Logout' buttons. Below the header, the text 'CHILAKALAPUDIEUPHC-COVAXIN' and 'Machilipatnam Town ,Krishna ,Andhra Pradesh,521002' is displayed. A welcome message 'Welcome chilakala' is shown. On the left, a sidebar menu includes 'Dashboard', 'Appointments', 'Vaccine List', and a highlighted 'Add Vaccine' button. The central panel is titled 'Vaccine Details' and contains fields for 'Type' (dropdown), 'Dose' (dropdown), 'Age' (dropdown), 'Count' (text input), and 'Date' (date input). An 'Add' button is at the bottom right. A watermark at the bottom right says 'Activate Windows Go to Settings to activate Windows.'

Whenever Super Admin logs in the below page is displayed.

The screenshot shows a web browser window with two tabs: 'localhost:8023/miniproject/admin' and 'localhost:8023 / 127.0.0.1 / hmsc'. The main content area has a blue header bar with 'Health Service' and 'Logout' buttons. Below the header, the text 'WELCOME SUPER ADMIN' is displayed. On the left, a sidebar menu includes 'Dashboard', 'Hospital Admins List', 'Vaccination Center Admins List', 'Users List', 'Add Hospital/Admin', 'Add VC Admin', and 'Queries'. The central panel features three main sections: 'Admins List' (with icons for Hospital Admins and Vaccination Center Admins), 'Users List' (with a 'View Users' link), and 'Manage Admins' (with links for 'Add Hospital Admin' and 'Add VC Admin'). A watermark at the bottom right says 'Activate Windows Go to Settings to activate Windows.'

Super Admin can view Admins List.

S.No	User Name	Password	Email	Hospital Name	Hospital Id	Hospital Location	Hospital Address
3	Ram	Ram@123	sanjeevani@gmail.com	Sanjeevani Hospital	HOS-GDV-123	Gudivada	Gudivada Bypass Rd, beside Mithra diagnostics, Rajendra Nagar, Teacher Colony, Satyanarayana Pur
1	mtmid	Mtm@123	mtm@gmail.com	Machilipatnam Govt Hospital	HOS-HYD-123	Machilipatnam	Chilakalpudi-Near Three Pillars, <small>Activate Windows Go to Settings to activate Windows.</small>
2	ndvid	Gdv@123	ndv@gmail.com	Gudivada Govt	HOS-GDV-123	Gudivada	address

Super Admin can add Admins (Hospital Admin/Vaccination Centre Admin).

Hospital Id:	<input type="text"/>
Hospital Name:	<input type="text"/>
Phone:	<input type="text"/>
Email:	<input type="text"/>
Location:	<input type="text"/>
Address:	<input type="text"/>
Admin Username:	<input type="text"/>
Password:	<input type="text"/>
Confirm Password:	<input type="text"/>

Activate Windows  
Go to Settings to activate Windows.

## CHAPTER-7

### CONCLUSION AND FUTURE SCOPE

#### **CONCLUSION**

This website provides user a free environment to find hospitals diagnosing COVID 19 based on rating and locations, by providing total related information including beds availability, appointments, and vaccine slots booking without any physical visit to hospitals or clinics and help users to follow COVID protocols effectively.

#### **FUTURE SCOPE:**

In coming future, there might be a chance of COVID-19 spreading and infecting more people. Our website assists and try to make booking appointments and beds very easy, in COVID-19 diagnosing hospitals. Also this website is one stop for all COVID-19 concerns.

#### **REFERENCES:**

1. <https://www.w3schools.com/bootstrap/>
2. <https://getbootstrap.com/>
3. <https://rateyo.fundoocode.ninja/>
4. [https://www.w3schools.com/php/php\\_sessions.asp](https://www.w3schools.com/php/php_sessions.asp)
5. <https://www.phpcluster.com/aadhaar-number-validation-using-javascript/>
6. <https://stackoverflow.com/questions/53608184/how-to-pass-hidden-value-in-a-form>

## Program Outcomes (POs)

**Engineering Graduates will be able to:**

- 1. Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 2. Problem analysis:** Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- 3. Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- 4. Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions, component, or software to meet the desired needs.
- 5. Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
- 6. The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues

and the consequent responsibilities relevant to the professional engineering practice.

- 7. Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- 8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9. Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 10. Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- 11. Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- 12. Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

### **Program Specific Outcomes (PSOs)**

PSO1: Design, develop, test and maintain reliable software systems and intelligent systems.

PSO2: Design and develop web sites, web apps and mobile apps.

## PROJECT PROFORMA

Classification of Project	Application	Product	Research	Review
	√			

Note: Tick Appropriate category

Project Outcomes	
Course Outcome (CO1)	Identify and analyse the problem statement using prior technical knowledge in the domain of interest.
Course Outcome (CO2)	Design and develop engineering solutions to complex problems by employing systematic approach.
Course Outcome (CO3)	Examine ethical, environmental, legal and security issues during project implementation.
Course Outcome (CO4)	Prepare and present technical reports by utilizing different visualization tools and evaluation metrics.

Mapping Table

CS2515: MINI PROJECT																
Course Outcomes	Program Outcomes and Program Specific Outcomes														PSO 1	PSO 2
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12				
CO1	3	3	1					2	2	2					1	1
CO2	3	3	3	3	3			2	2	2		1			3	3
CO3	2	2	3	2	2	3	3	3	2	2	1				3	
CO4	2		1		3				3	3	2	2			2	2

Note: Map each project outcomes with POs and PSOs with either 1 or 2 or 3 based on level of mapping as follows:

1-Slightly (Low) mapped 2-Moderately (Medium) mapped 3-Substantially (High) mapped