A PROJECT ON

VACCINATION MANAGEMENT SYSTEM

SUBMITTED FOR
THE COURSE OF DIPLOMA IN ADVANCED COMPUTING FROM CDAC

SUNBEAM INSTITUTE OF INFORMATION TECHNOLOGY
PUNE

Rushikesh Kuthe -220944220180

UNDER THE GUIDANCE OF

Nilesh Pawar
Faculty Member
Sunbeam Institute of Information Technology, Pune

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Faculty Member
Sunbeam Institute of Information Technology, PUNE.

Vaccine Management System

CERTIFICATE

This is to certify that the project work under the title **'Vaccination Management System** is done by **Rushikesh Kuthe** in partial fulfillment of the requirement for award of Diploma in Advanced Computing Course.

Nilesh Pawar
Project Guide

Mr. Yogesh Kolhe
Course Co-Coordinator

Date:

1. Introduction of Project:

Vaccine Center is introduced as relatively simple standalone system to provide Covid Vaccine booking facility to the users from anywhere. Our System provide Online Direct Internet Access for the public to make a booking of center through the internet.

This application provides Booking of vaccine and slot according to user's need near his residential area . This will help user to easily take vaccine without much efforts.

Any private center can register itself and provide vaccine to normal user and modify the slot of user if needed.

Only admin can provide the quantity of vaccine by using his login credentials. Also admin monitor the registered users and all centers .

2. Product Overview and Summary

Like with any vaccine, some people will experience mild to moderate side effects after being vaccinated against COVID-19. This is a normal sign that the body is developing protection. Side effects to COVID-19 vaccines include a fever, tiredness, headache, muscle ache, chills, diarrhoea and pain or redness at the injection site. Not everyone will experience side effects. Most side effects go away within a few days on their own. You can manage any side effects with rest, plenty of non-alcoholic liquids and taking medication to manage pain and fever, if needed.

If you are worried that the side effects that you are experiencing are unusual, if the pain in the arm where you got the injection gets worse after 24 hours or your side effects don't go away in a few days, contact your healthcare provider for advice.

More serious or long-lasting side effects to COVID-19 vaccines are possible but extremely rare. If you experience difficulty breathing, chest pain, confusion, loss of speech or mobility after your vaccine, contact your healthcare provider immediately. Vaccines are continually monitored for as long as they are in use to detect and respond to rare adverse events

2.1 Purpose:

New booking trend:

The preponderance of the User use the internet in this digital world, they discover on the internet everything they need to know. If your business is not showing online you can miss a great opportunity. If you want to take advantage of this modern booking approach, you must integrate your business online reservation platform with your product, service pages. You can take a great business through the internet online services

24*7 service:

The online booking system works all the time. It also increases your sales because you are not limited to your working hours. This gives freedom to potential visitors to book a room anytime and anywhere they want. Show that 24*7 online reservation system considerably increases the number of hotel bookings.

Secure Payment:

Online Booking of center allows potential user to self-book and pay securely through your website, securely store user's data and keep your business running long after you've gone home for the day

2.2 Scope:

Vaccination Management System consists of three modules described as below.
1. User Module
2. Center Module
3. Admin Module

->The Scope of the Project is to achieve Distribution of Covid Vaccine in Efficient Manner.

-> Here we try to ensure that Vaccination should be distributed through right manner and try to fullfill the Requirement of project.

->This project manages Registration, Appointment Scheduling, Managing Vaccines and Certification for Vaccination Community Members.

2.3 Overview:

Section 3.0, the Overall Description, provides an overview of the components and the relationship between them. Section 4.0 provides the Specific Requirements of the product. In the subsection (4.1) and (4.2) of which the various functional requirements and various interface respectively are discussed. Section 5.0 describes Database Design details.

2.4 Feasibility Study

Feasibility is determination of whether a projects worth doing or not. Before actually recommending the new system it is important to investigate if it is feasible to develop the new system.

Before developing and implementing a system we have sure that our system is feasible in the following ways:

1. Technical Feasibility.
2. Operational Feasibility.
3. Economical Feasibility.

- **Technical Feasibility:**

In the type of feasibility study, the system analyst has to check whether it is possible or not to develop the requested system with availability of manpower, software, hardware, etc…The system which we run in Linux as well as windows platform and hence are suitable for the end-user. The system is technically feasible because it does not require too much manpower and runs with the basic available equipment.

- **Operational Feasibility:**

In this type of feasibility study the operation implementation of the system is considered. Checking is done regarding whether it is feasible for the user department to use the software or will there be any inertial resistance from the users. Thus the proposed system is said to be operationally feasible only of the end users are able to understand the system clearly and correctly and can use the system with ease and with the minimum training.

We need to train our staff so that system will be handled efficiently. As the system developed is very user-friendly and easy to operate for any person with minimum computer knowledge of computer is also able to handle our system. It is also easy to operate due to the user-friendly interface developed using ReactJS

- **Economical Feasibility:**

In this type of feasibility study, the benefits of the system to the organization are considered by taking into consideration the cost-benefit analysis. The basic software, which is required for the implementation of the system, is MERN which easily available. Also with the basic training user can use this software thus reducing the training cost to the organization. Thus, using this system is feasible for the organization and loading Java and the proposed system is economically feasible for the organization. As our system goes online we will have a lot of customers adding to our publicity. This in turn will increase our profit.

3. Overall Description:

3.1 Users Features

There are three types of user to this system one is the Admin Authorize Center. It Access of Centers and Users.It allot Vaccination doses to all centers.It can check list of users who had completed vaccination doses. It can check List of Centers.
Second is Center who can monter user and modify the slots of user .
Third is User who will book center with slot and take vaccine.

General Constraints

The "Vaccine Booking " should run on all Internet Browser and all processors which supports the Internet Browser.

4. REQUIREMENTS

- **Health care providers** to enroll in the mass vaccination program, make vaccination appointments available to the interested recipients, support scheduling, track vaccination administration and reporting to state and local public health organizations, and manage inventory via a web-based application.

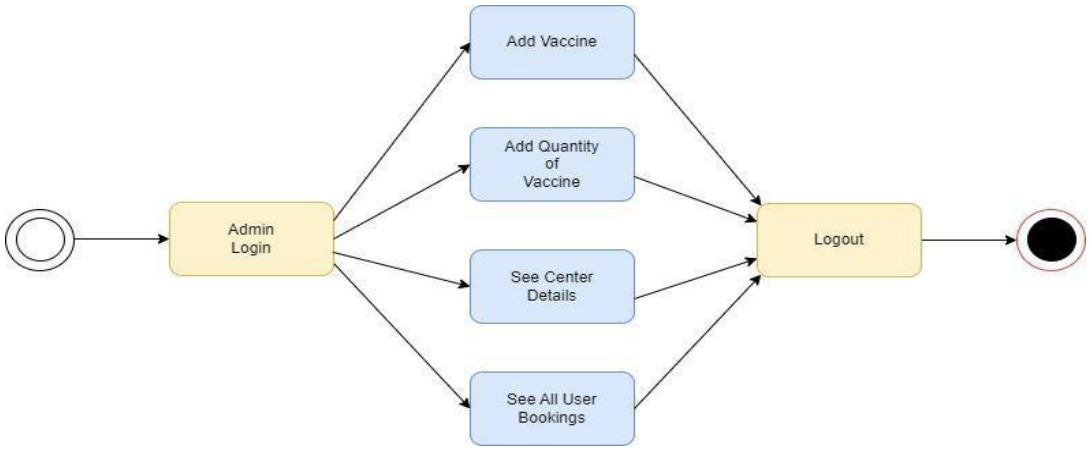
- **Vaccine recipients** to locate and schedule vaccination appointments, complete prescreening questionnaires to expedite appointments, receive text reminders for appointments and follow-up needs (for multiple doses as applicable), and access an immunization certification using a mobile device, tablet, or PC.

- **State and local public health organizations** to support and monitor the vaccine administration and coverage across a geography or jurisdiction and assist providers with inventory management of vaccines stock.

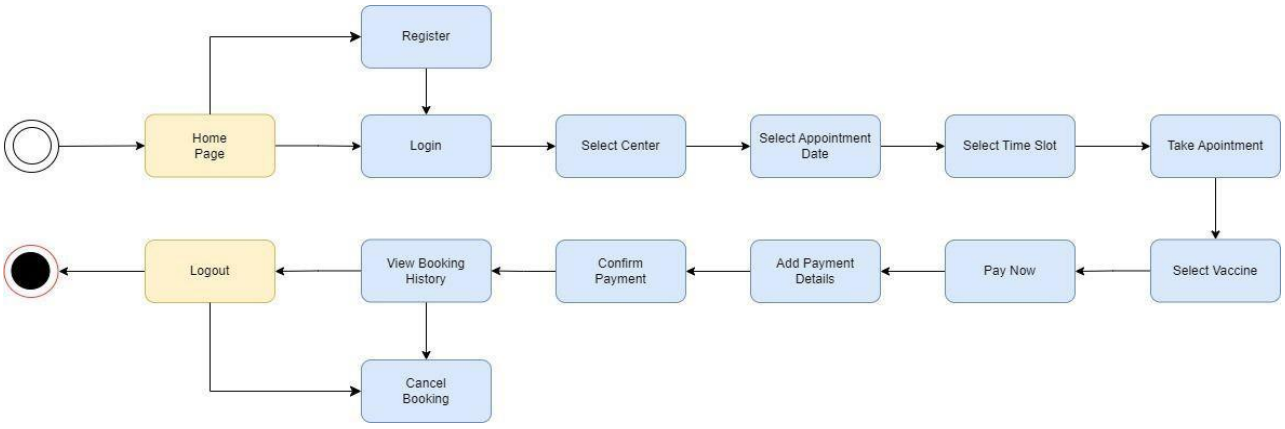
4.1 FUNCTIONAL REQUIREMENTS

4.1.1 Complete System:

ADMIN-



USER-



UI : Login

There is an entry interface that is intended to facilitate the user (admin or User) to login to the system. If user is not registered before then he can register himself with system by using New User link and by filling registration form. User has to enter various fields information (Name, Password, Email Id etc)

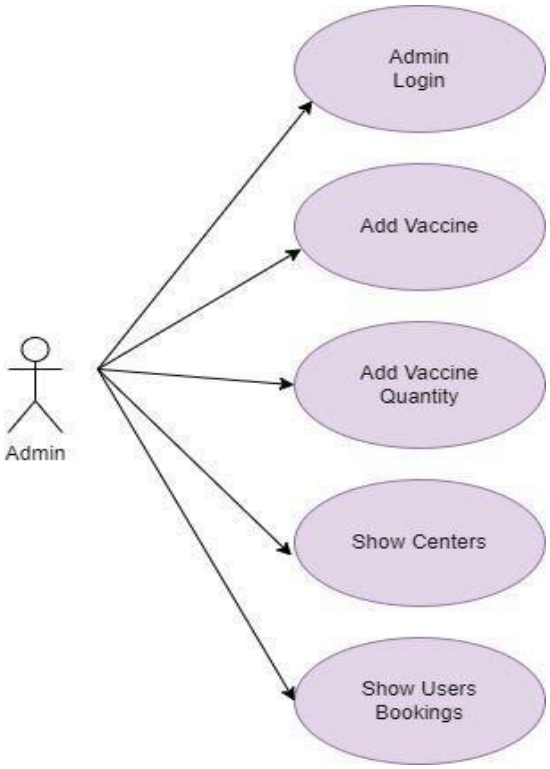
Scenario 1: Mainline Sequence

1. admin: Enters admin username and password.
2. System: Displays the admin home page where interface is provided to monitor.

Scenario 2: Mainline Sequence

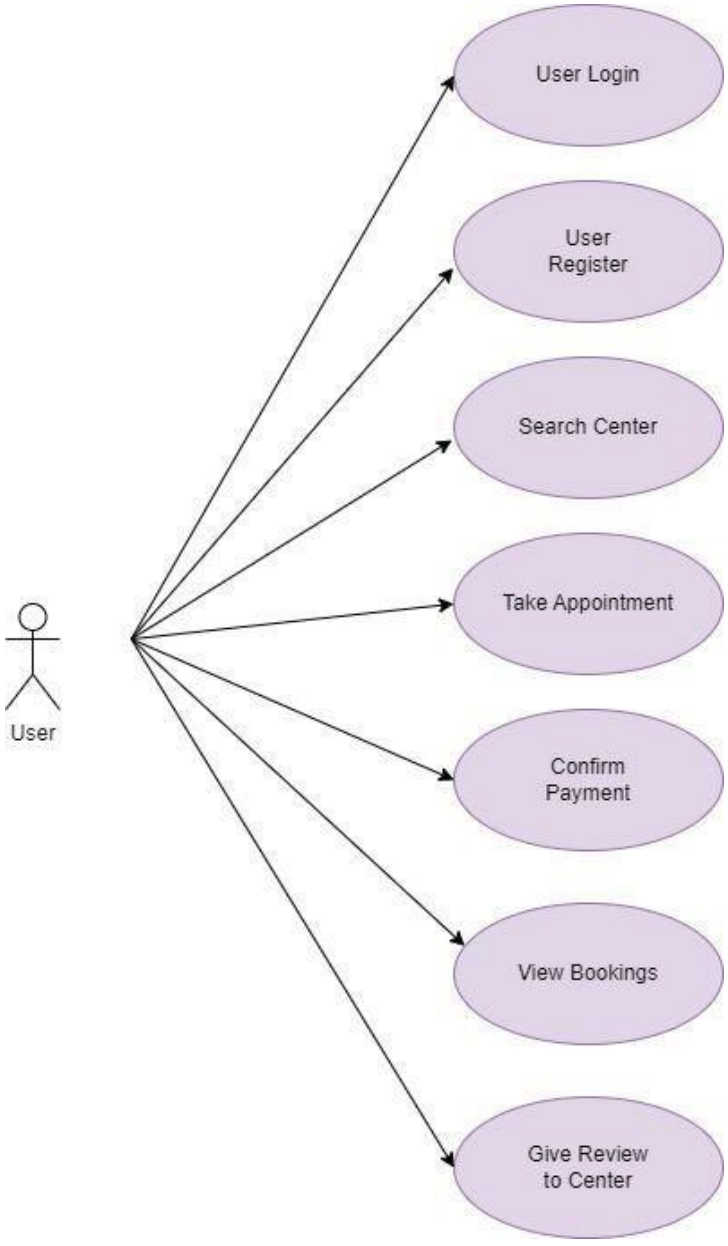
1. User: Enters username and password.
2. System: Displays the User home page where interface is provided to monitor.

4.2 Use Case Diagram-Admin:

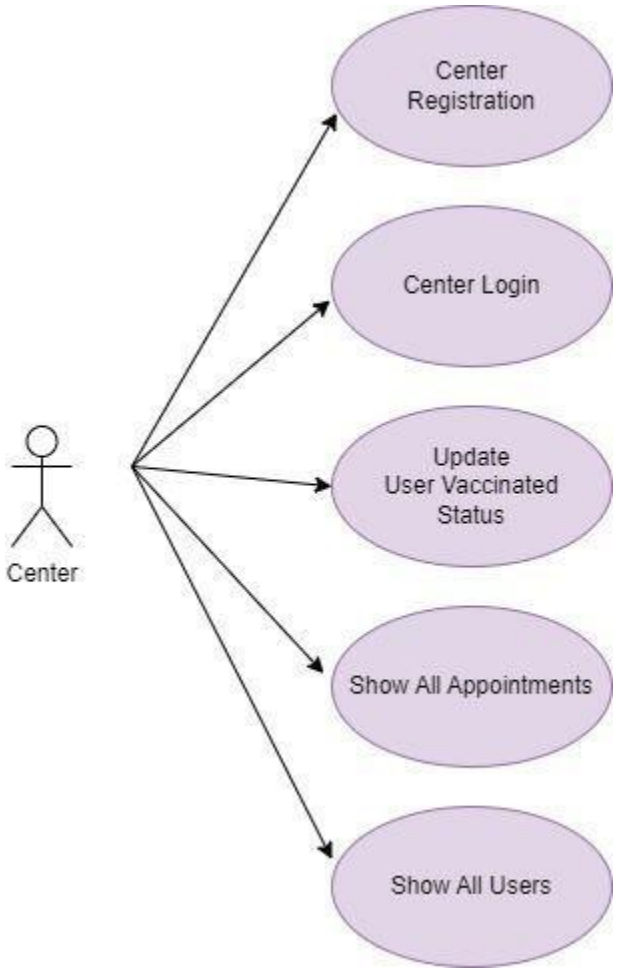


There is an entry interface that is intended to facilitate the admin to enter City record, with its respective locations in the database. admin has to enter fields information City

4.3 User Task:



4.4 Center Task:



4.5 System Requirement

4.4.1 **Min Hardware Requirement- -**

1) 8-GB RAM
2) **256 GB Storage**
3) **Stable Internate Connection**
4) **Atleast i-3 processor**

4.4.2 **Software Requirement-**

1) **MySQl**
2) **VS Code**
3) **Postman**
4) **STS**

5. DESIGN

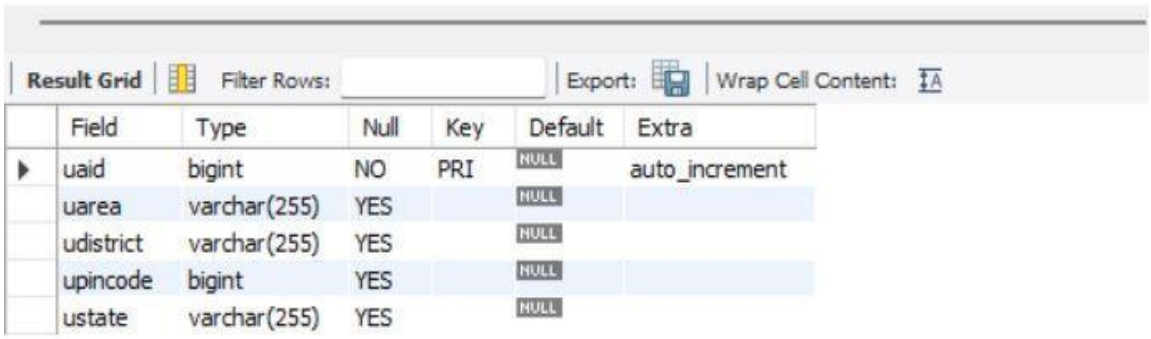
5.1 Database Design

User:-

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
uid	bigint	NO	PRI	NULL	auto_increment
uadhar	varchar(20)	YES	UNI	NULL	
age	smallint	NO		NULL	
udob	date	YES		NULL	
uemail	varchar(255)	YES	UNI	NULL	
ufirstname	varchar(30)	YES		NULL	
ulastname	varchar(30)	YES		NULL	
umiddlename	varchar(30)	YES		NULL	
umobileno	varchar(13)	YES		NULL	
upassword	varchar(255)	NO		NULL	
role	varchar(255)	YES		NULL	
uaddress	bigint	YES	MUL	NULL	

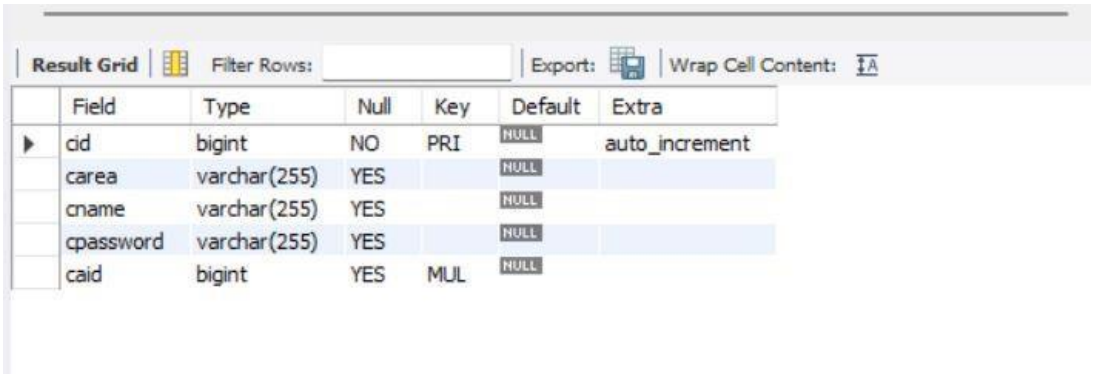
User Address:-



Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
uaid	bigint	NO	PRI	NULL	auto_increment
uarea	varchar(255)	YES		NULL	
udistrict	varchar(255)	YES		NULL	
upincode	bigint	YES		NULL	
ustate	varchar(255)	YES		NULL	

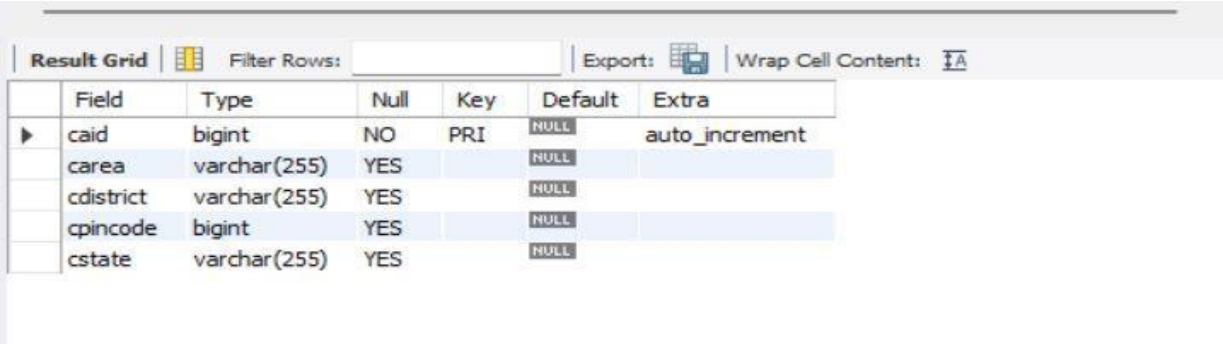
Center :-



Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
cid	bigint	NO	PRI	NULL	auto_increment
carea	varchar(255)	YES		NULL	
cname	varchar(255)	YES		NULL	
cpassword	varchar(255)	YES		NULL	
caid	bigint	YES	MUL	NULL	

Center Address:-



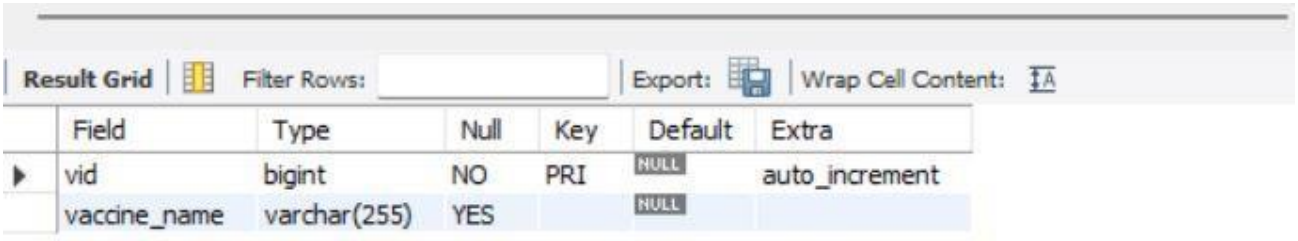
Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
caid	bigint	NO	PRI	NULL	auto_increment
carea	varchar(255)	YES		NULL	
cdistrict	varchar(255)	YES		NULL	
cpincode	bigint	YES		NULL	
cstate	varchar(255)	YES		NULL	

Vaccine Booking :-

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
dosecount	int	YES		NULL	
timeslot	varchar(255)	YES		NULL	
vstatus	varchar(255)	YES		NULL	
cid	bigint	YES	MUL	NULL	
uddid	bigint	YES	MUL	NULL	
uid	bigint	YES	MUL	NULL	
vid	bigint	YES	MUL	NULL	

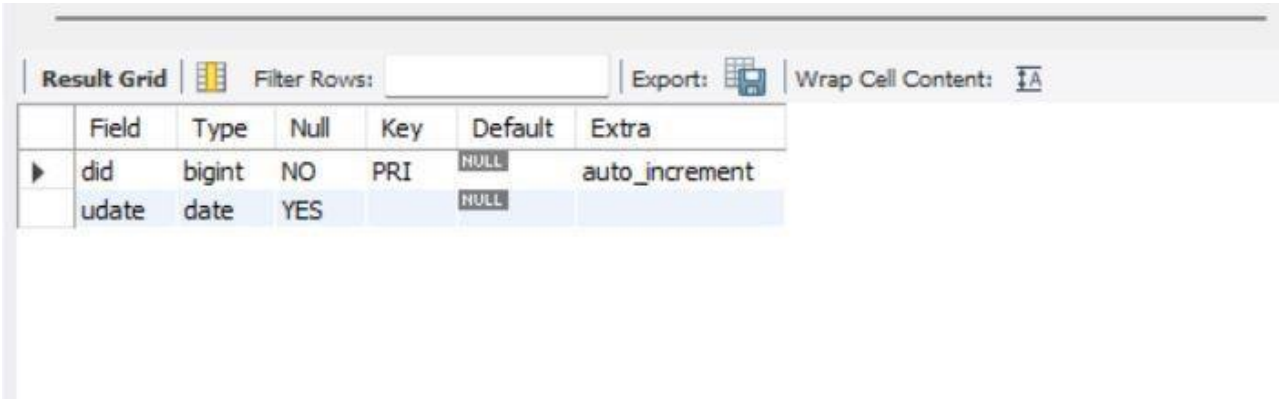
Vaccine :-



Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
vid	bigint	NO	PRI	NULL	auto_increment
vaccine_name	varchar(255)	YES		NULL	

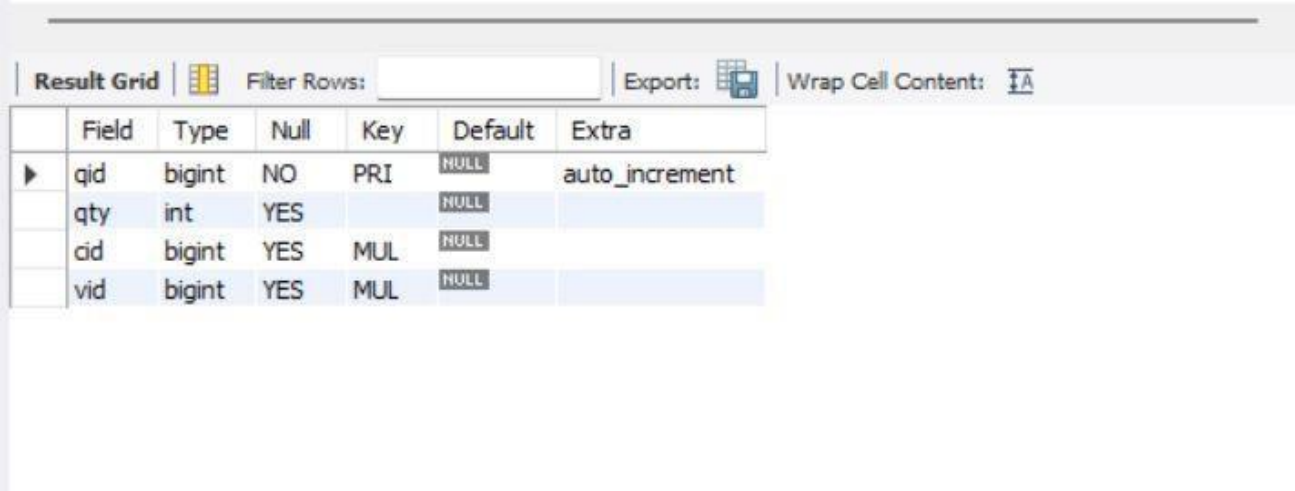
Vaccine Booking Date :-



Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
did	bigint	NO	PRI	NULL	auto_increment
udate	date	YES		NULL	

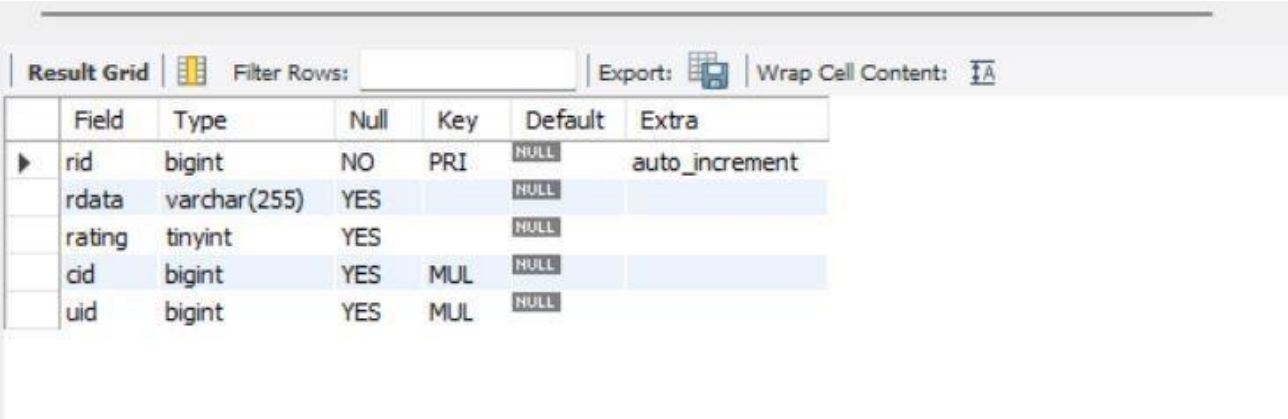
Vaccine Quantity :-



Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
qid	bigint	NO	PRI	NULL	auto_increment
qty	int	YES		NULL	
cid	bigint	YES	MUL	NULL	
vid	bigint	YES	MUL	NULL	

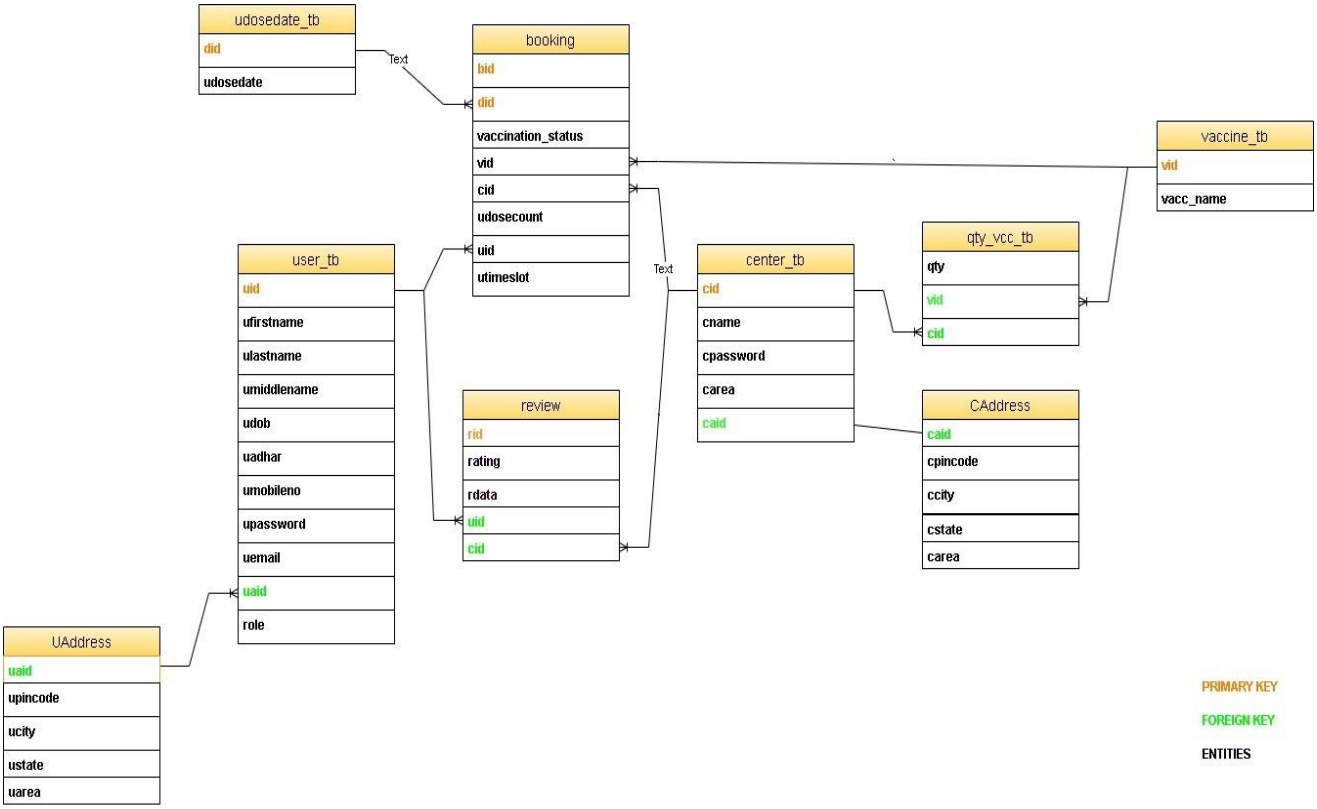
Review :-



Result Grid | Filter Rows: | Export: | Wrap Cell Content:

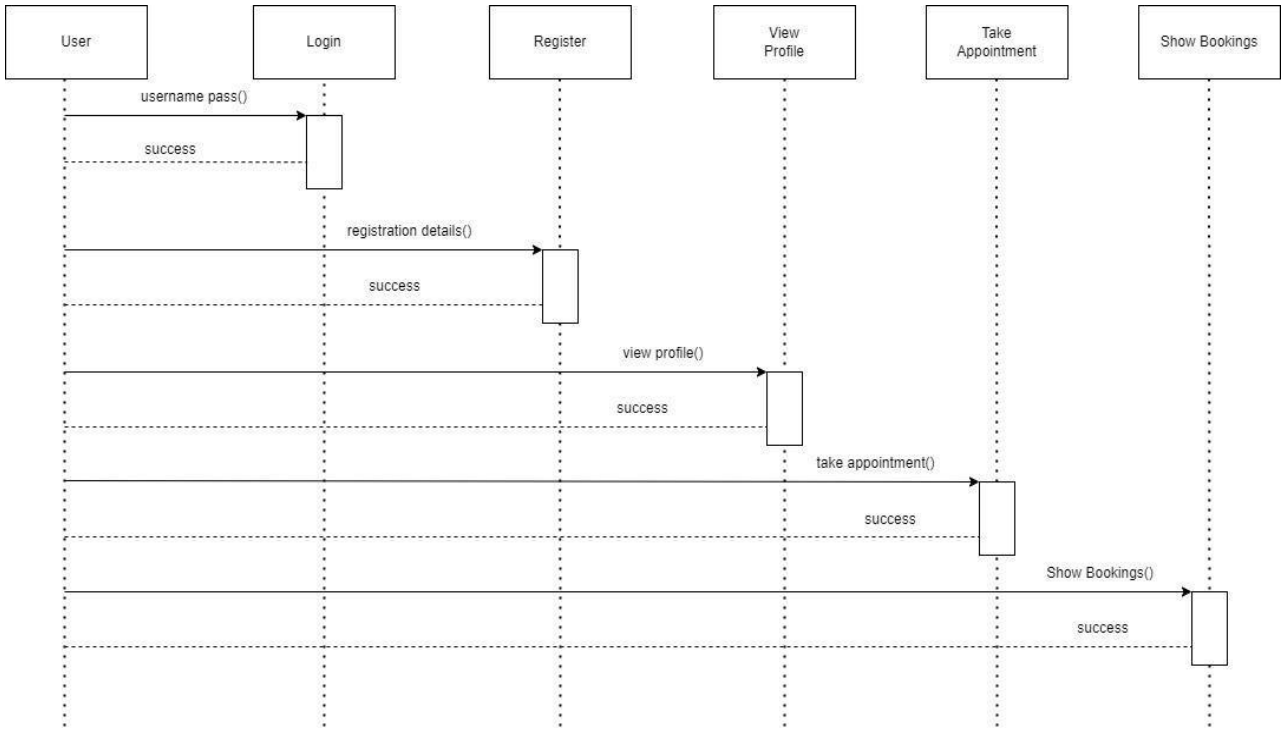
Field	Type	Null	Key	Default	Extra
rid	bigint	NO	PRI	NULL	auto_increment
rdata	varchar(255)	YES		NULL	
rating	tinyint	YES		NULL	
cid	bigint	YES	MUL	NULL	
uid	bigint	YES	MUL	NULL	

5.2 ER Diagram



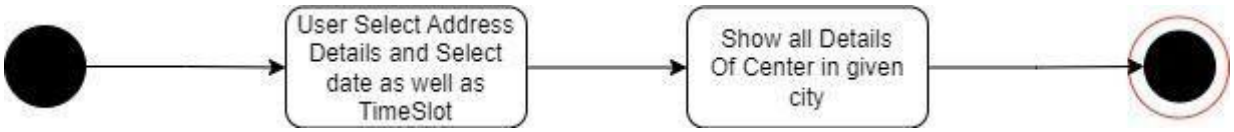
5.3 SEQUENCE DIAGRAMS

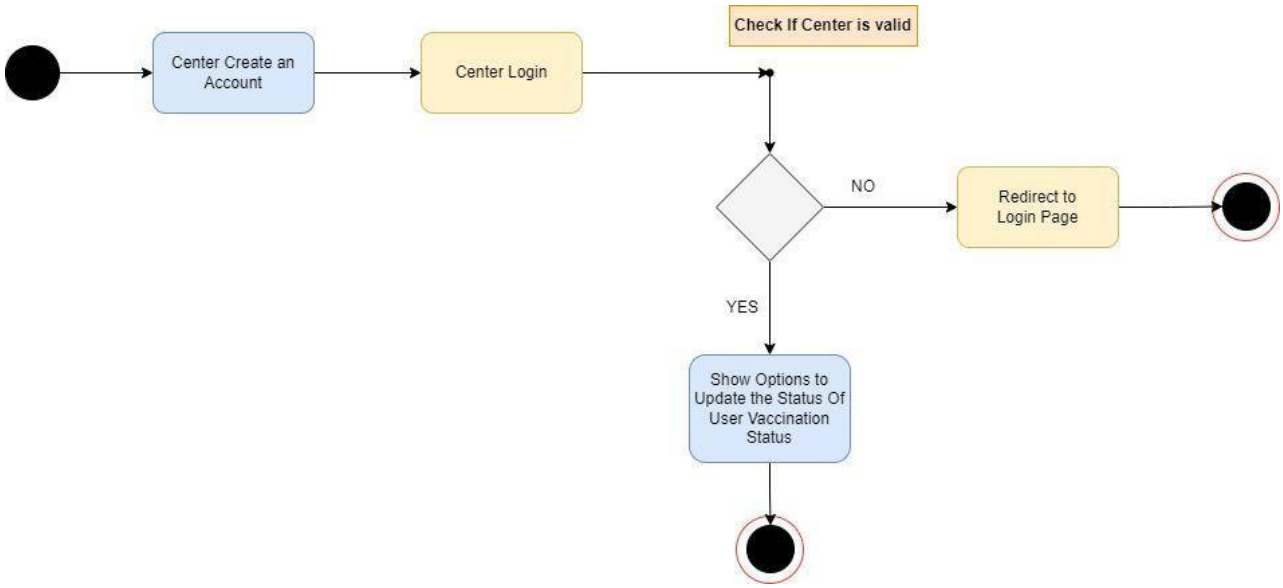
USER



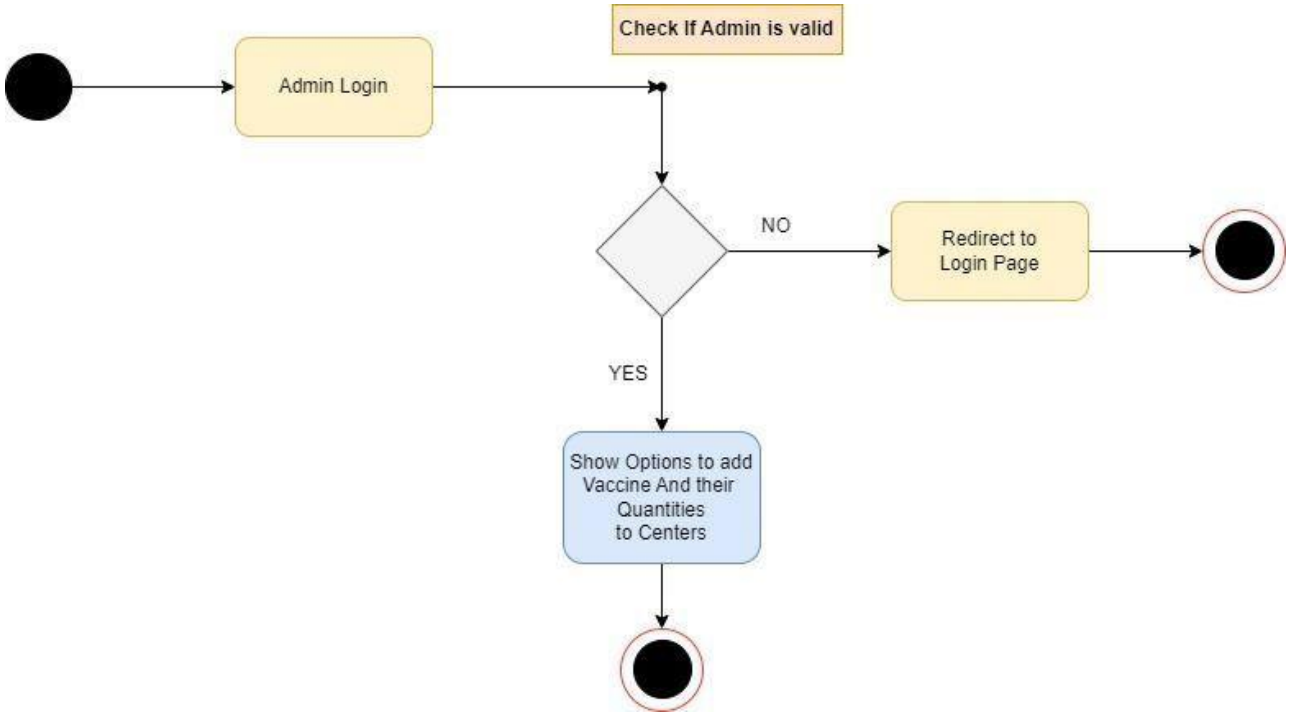
5.1 ACTIVITY DIAGRAM

CENTER : -



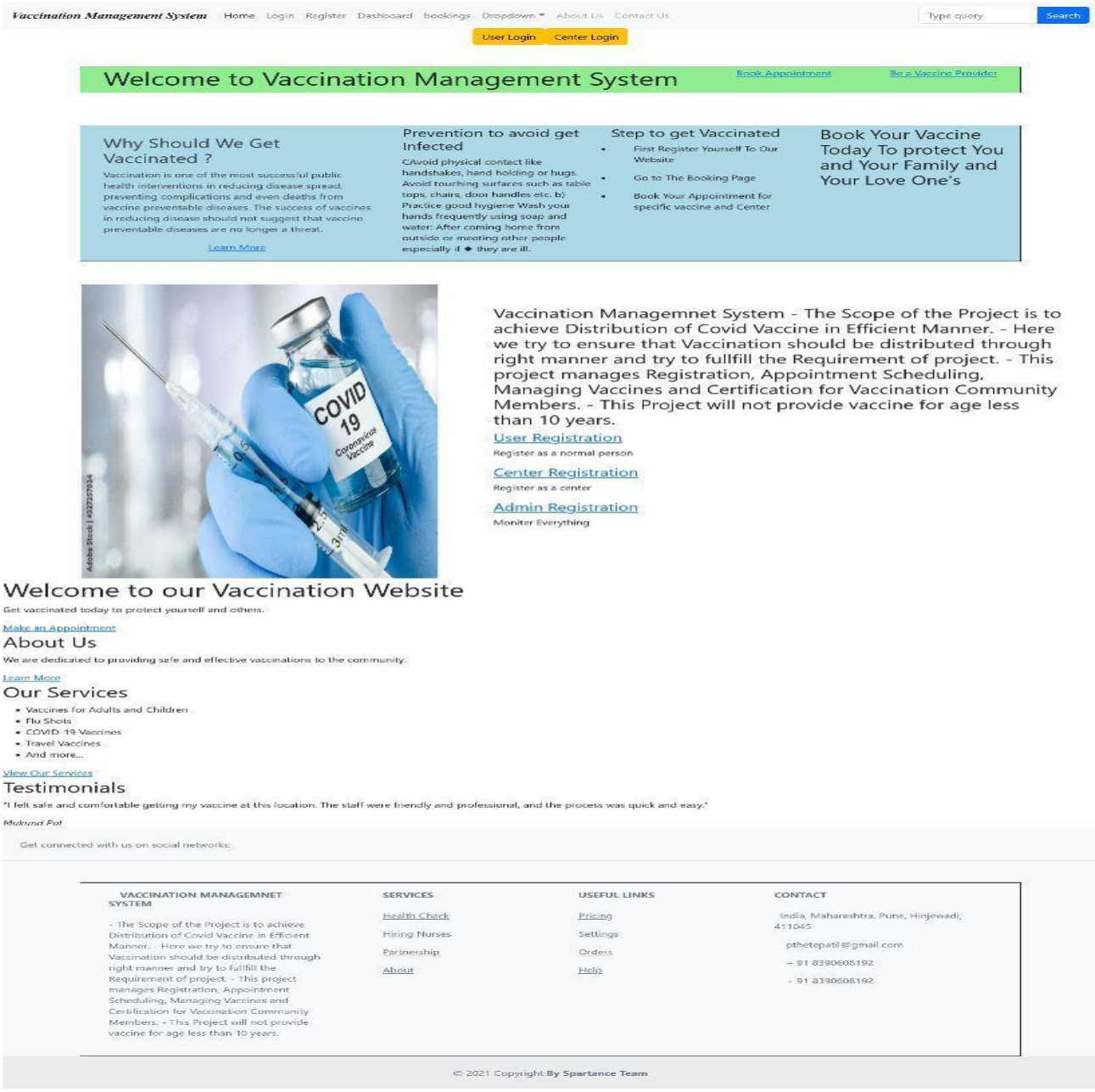


ADMIN:

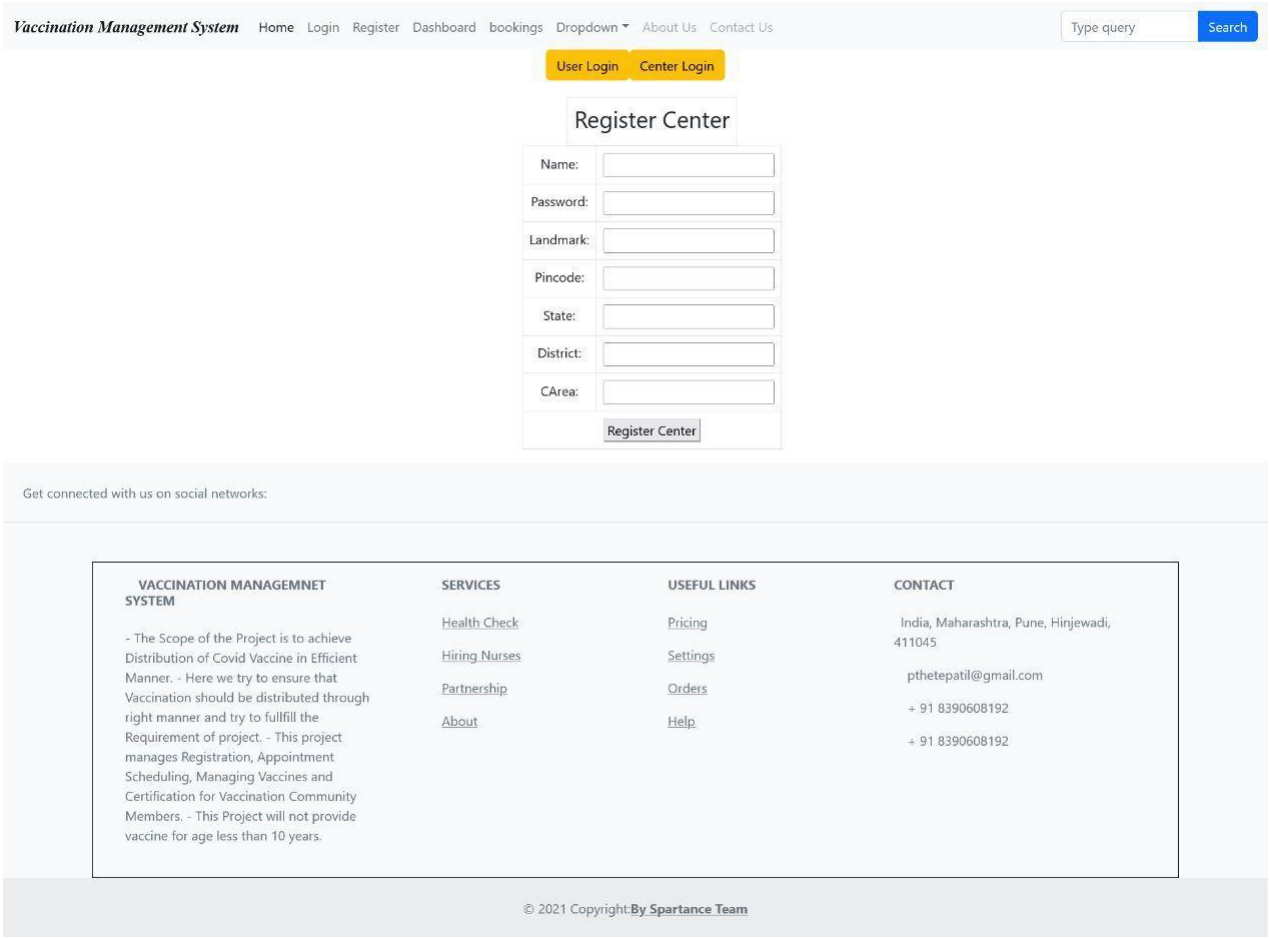

Check If Admin is valid
Admin Login
NO
Redirect to Login Page
YES
Show Options to add Vaccine And their Quantities to Centers

6. Interfaces:

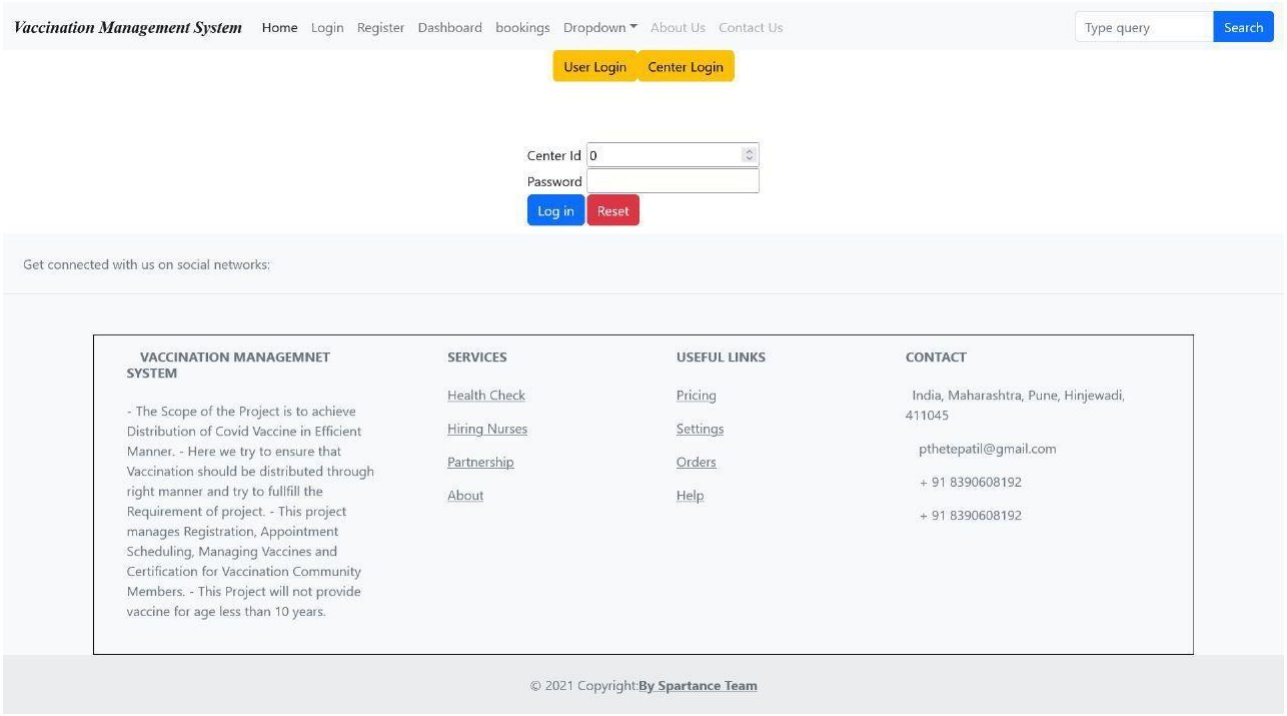
1) Homepage



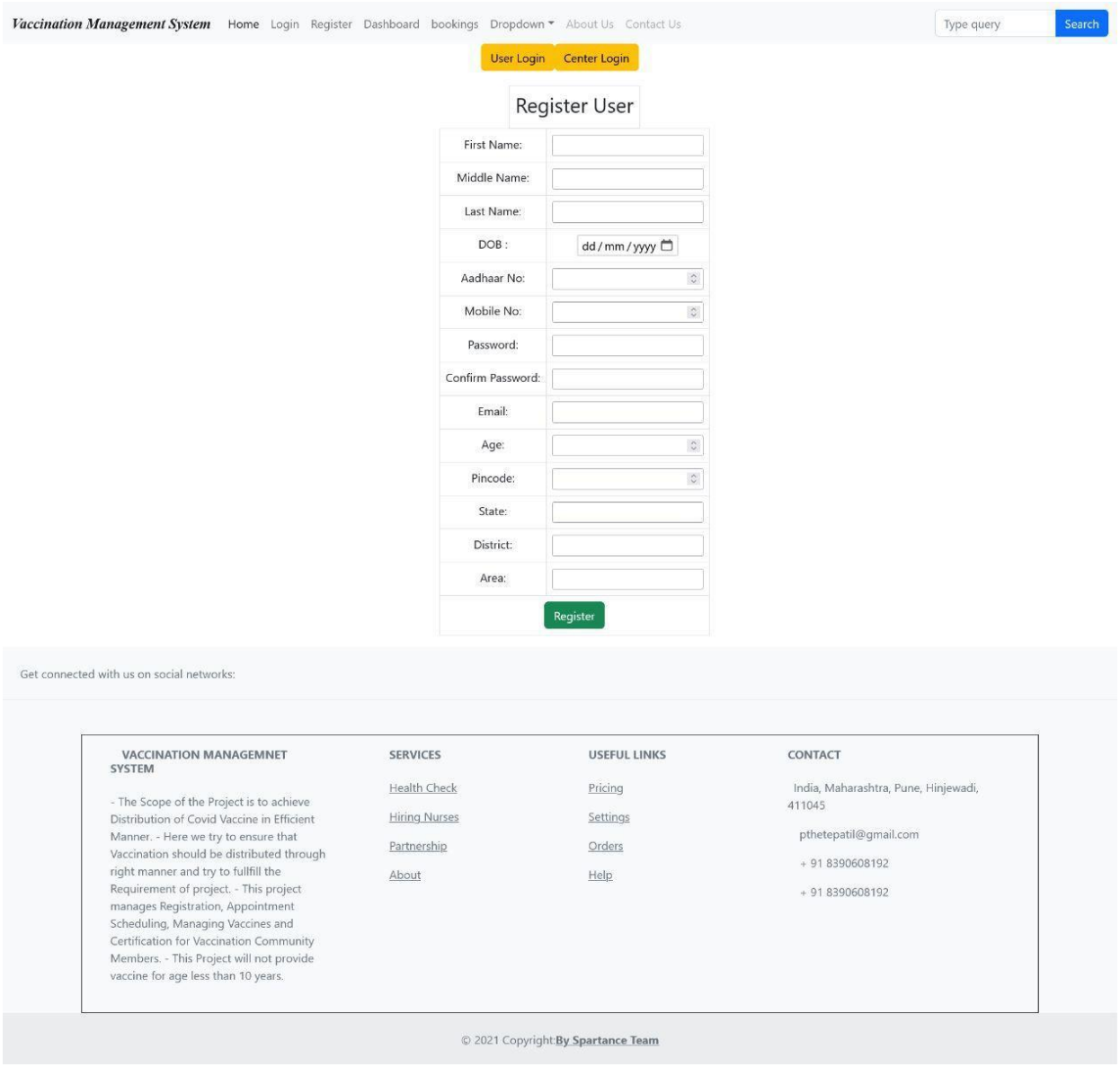
2) Center Register



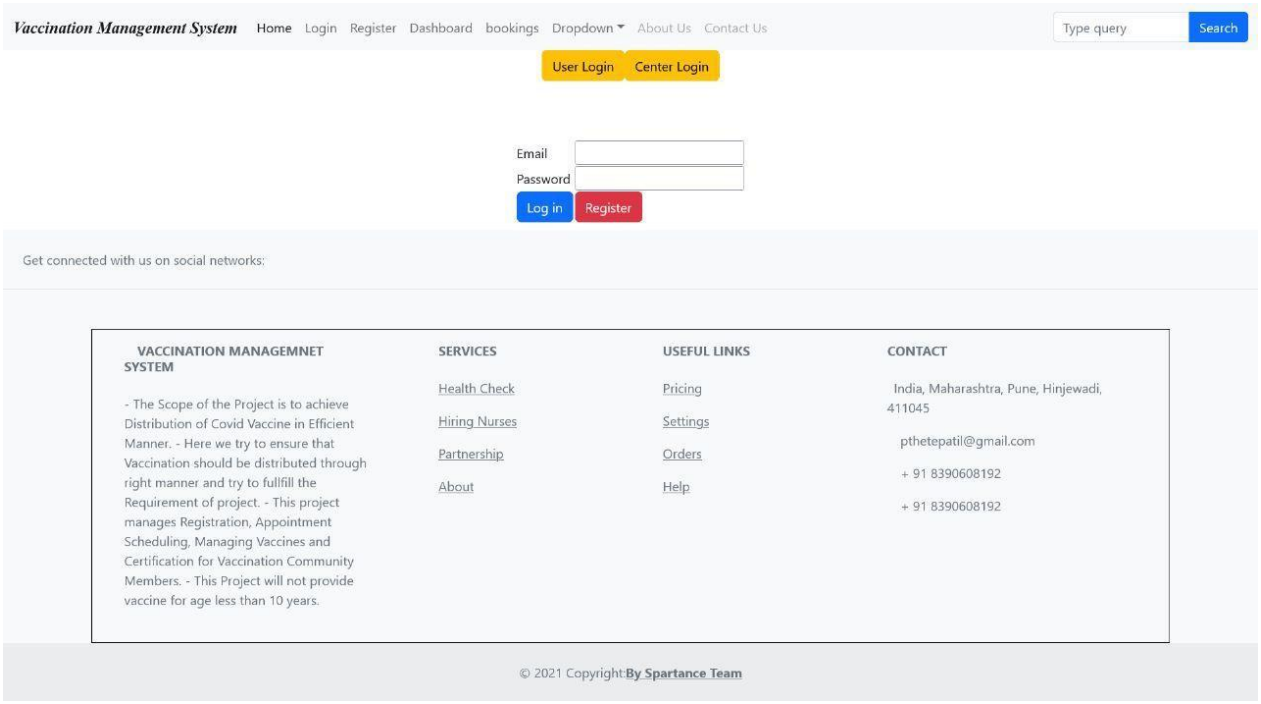
2) Center Login



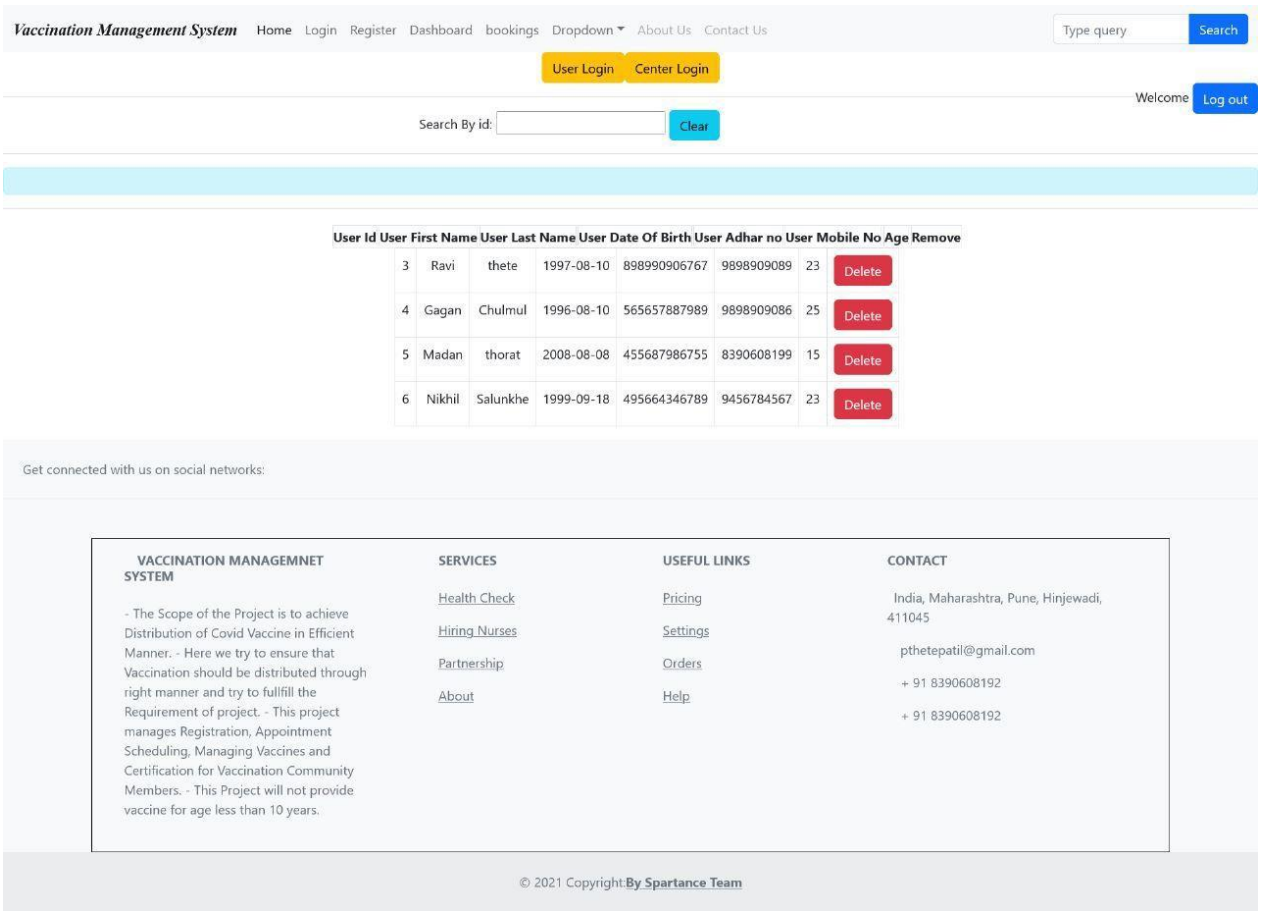
3) User Register



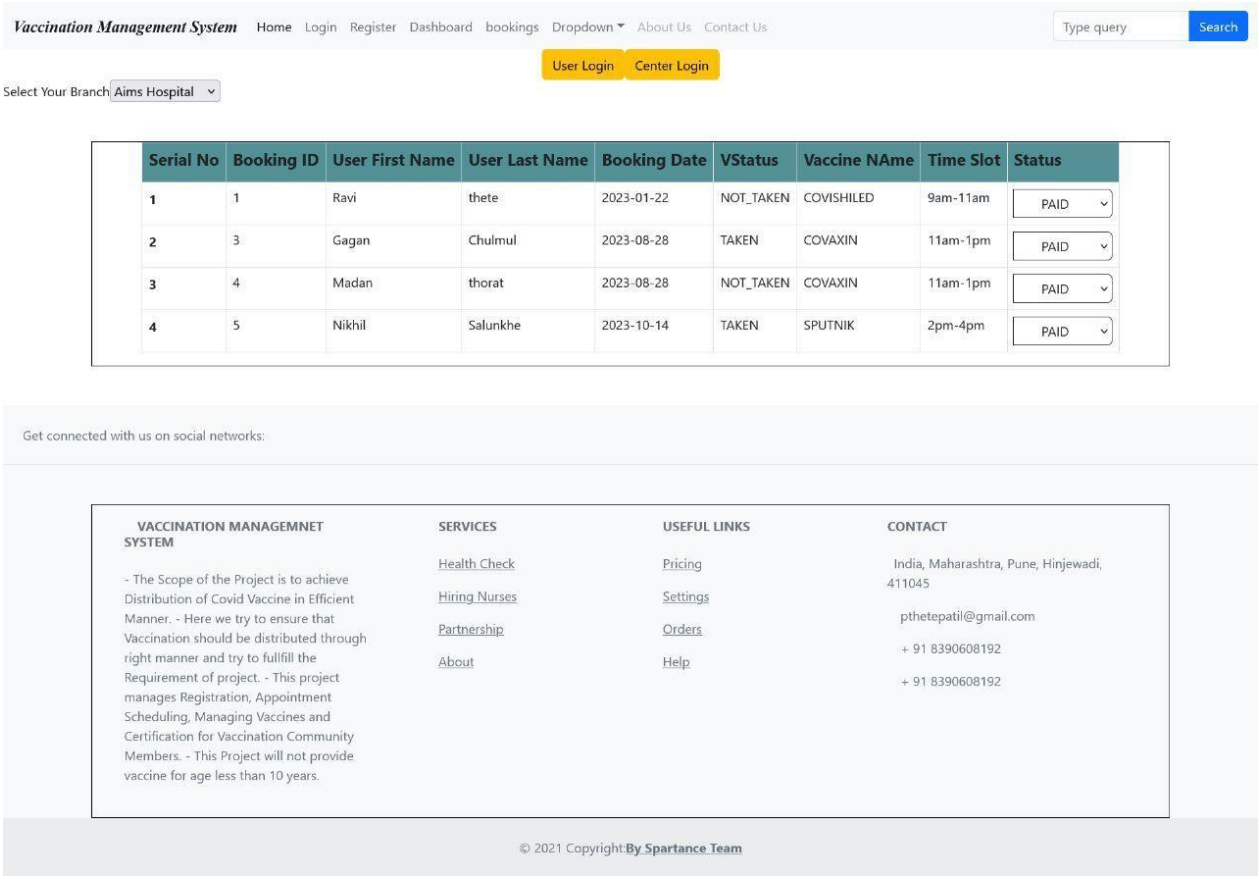
4) User Login


Vaccination Management System
Home
Login
Register
Dashboard
bookings
Dropdown
About Us
Contact Us
Type query
Search
User Login
Center Login
Email
Password
Log in
Register
Get connected with us on social networks:
VACCINATION MANAGEMNET SYSTEM
- The Scope of the Project is to achieve Distribution of Covid Vaccine in Efficient Manner. - Here we try to ensure that Vaccination should be distributed through right manner and try to fullfill the Requirement of project. - This project manages Registration, Appointment Scheduling, Managing Vaccines and Certification for Vaccination Community Members. - This Project will not provide vaccine for age less than 10 years.
SERVICES
Health Check
Hiring Nurses
Partnership
About
USEFUL LINKS
Pricing
Settings
Orders
Help
CONTACT
India, Maharashtra, Pune, Hinjewadi, 411045
pthetepatil@gmail.com
+ 91 8390608192
+ 91 8390608192
© 2021 Copyright:By Spartance Team

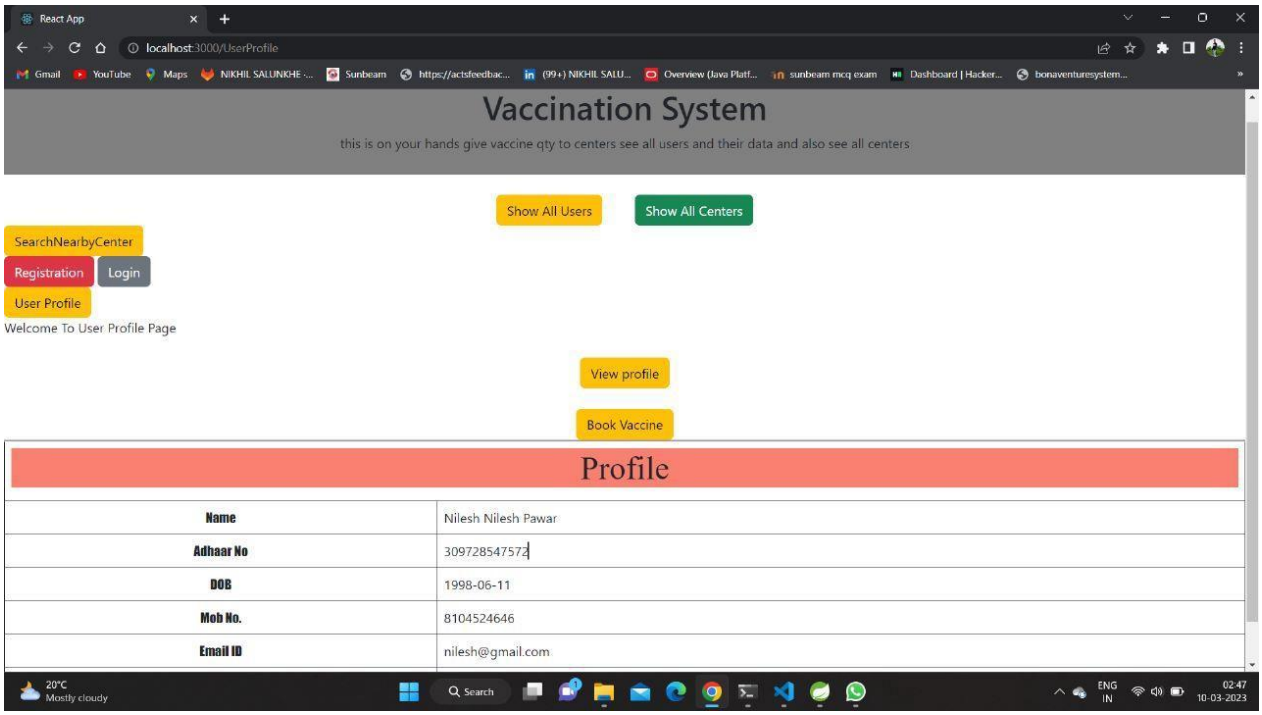
5) User Bookings History



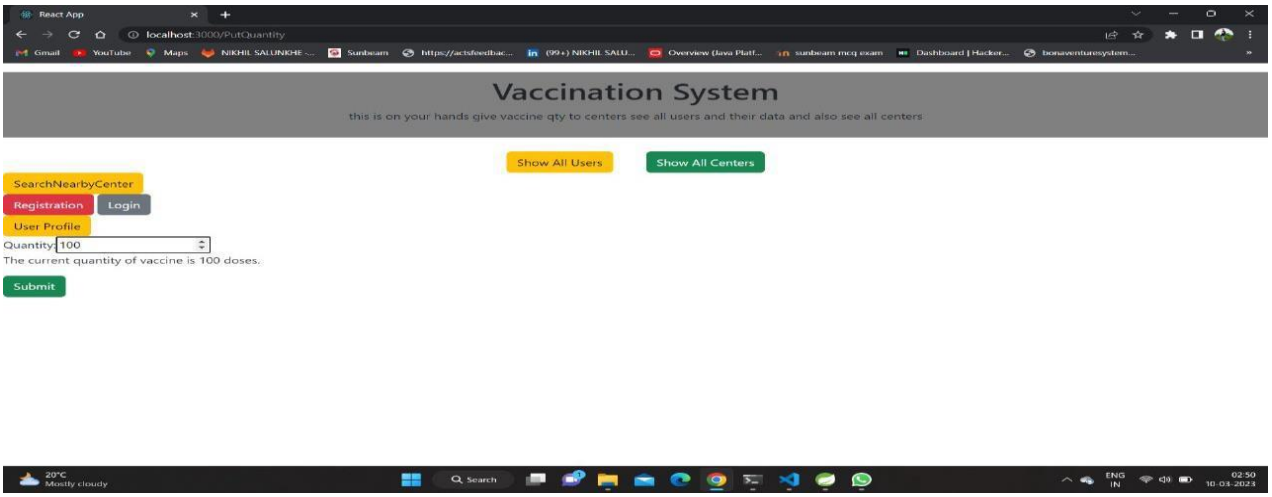
6) User Appointments and Payment Status



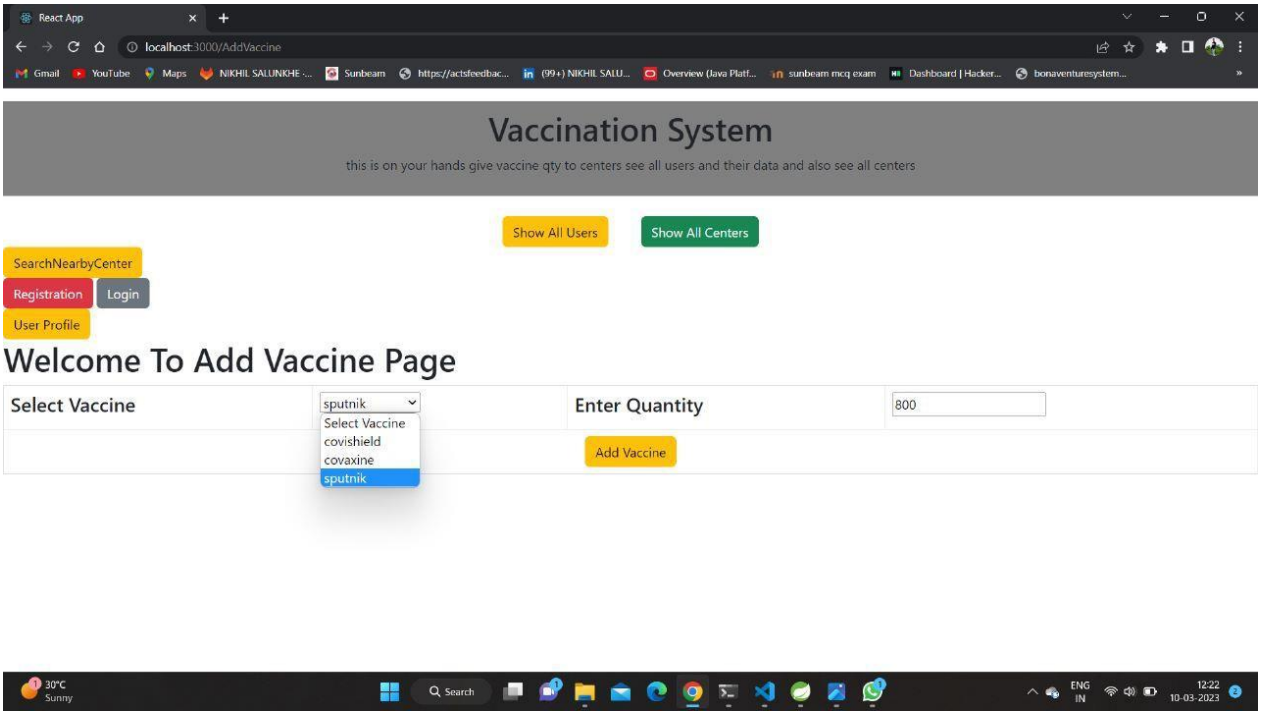
7) View Profile



8) Add Quantity



9) Add Vaccine



7. TEST REPORT

Project Name :- Vaccine Booking

Sr. No	Test Case Title	Description	Expected Outcome	Error Message	Result
1	Login PageAdmin	If User Id=admin ID, Password= admin Password	If Validated allow for admin Home Page If not redirect to same page	Username and password required	Passed
2	Login Page – User	If User Id=User ID, Password= User Password	If Validated allow for User Home Page If not redirect to same page	Username and password required	Passed
3	Login Page – Center	If User Id=Center ID, Password= User Password	If Validated allow for Center Home Page If not redirect to same page	CenterId and password required	Passed
3	Home page Displayed	Homepage display for every successful log in.	Home Page Displayed	No Error	Passed
4	New user Entry	User can register and login by using user login	New User	Validation Error	Passed
5	Show Center details	center can see details of given user on particular Date and timeslot	User Details	No Error	Passed
6	Show Admin details	Admin can see details of given user and centers	User and Center		
7	New user registration	Should not allow any control to be empty if not null	If validated Allow to go to login page	Validation Error	Passed
8	Check Available Center	System shows all available Center with timeslots	List of Centers	No Error	Passed

9	Book appointments To center	After selecting center system shows center for that particular area	Show Center According to Area	No Error	Passed
10	Show Booking History	System shows previously booked center s to user	center list is shown to user	No Error	Passed
11	Log out	User/center / admin can logout by using this link	Successfully logout message	No Error	Passed

8. FUTURE SCOPE:

The Vaccination Center offers the following functionality:

1. Children can get vaccinated above age of 10.
2. Booking can be done all Over the India
3. Payment private vaccine .
4. If Any Requirement for Vaccination then we can provide fully autiomatic way to provide Vaccine to user