MOBILE APPLICATION DEVELOPMENT IOS COVI-VACCINATION

Prepared For

Mobile Application Development – iOS

Submitted by: -
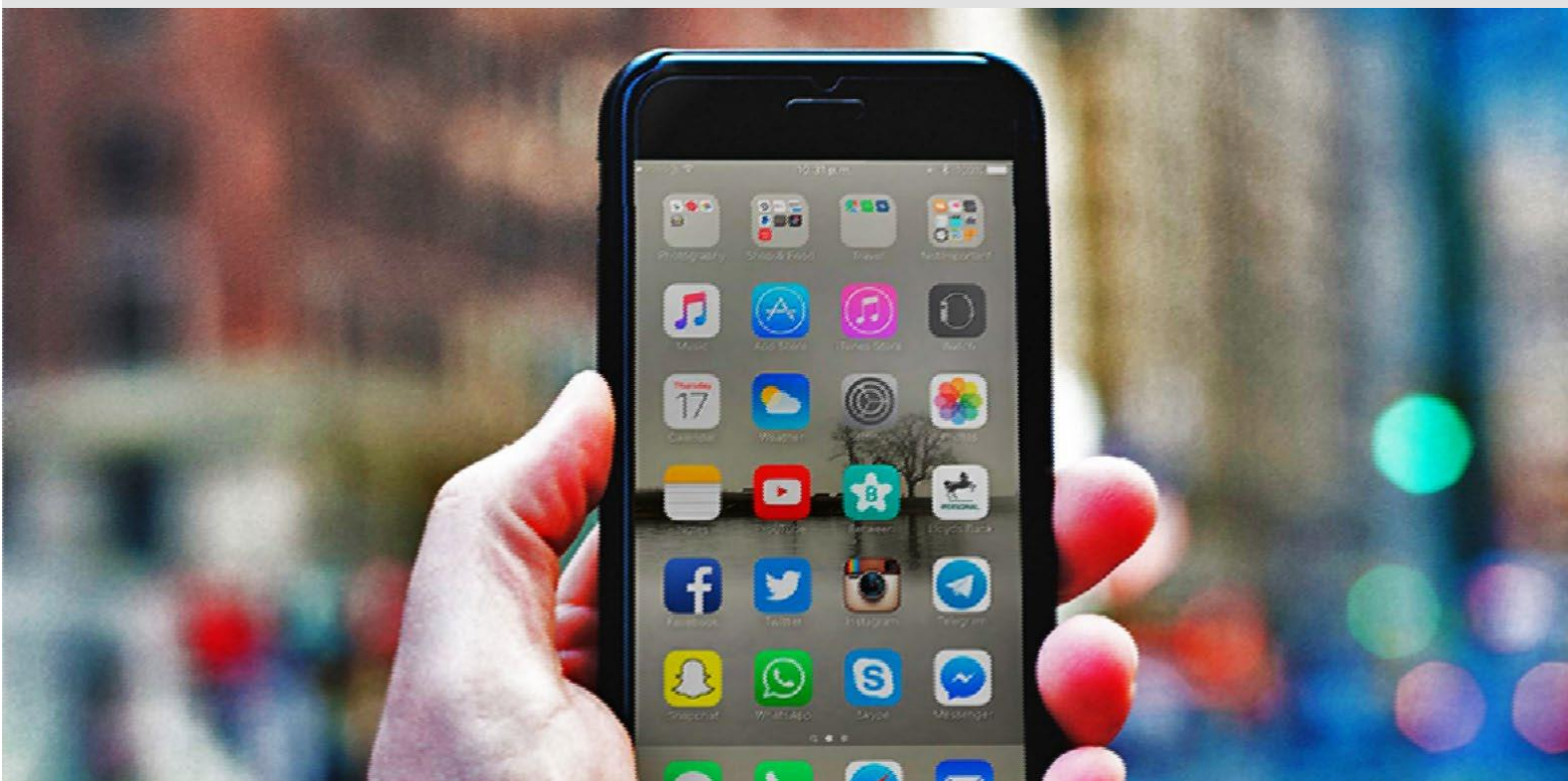Anu Bala
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PROJECT PURPOSE

COVI-VACCINATION

Covi-Vaccination is an online vaccination booking platform for Indian citizens to use with ease. To overcome this situation of global pandemic, everyone must be vaccinated to stop the spread of the virus. If the user does not have an account, they can register. From this form, the data will be stored in the user database in CoreData. The user can login to the app using their login credentials, which will be then verified with the data in the database, and if the login information matches, the user will be successfully logged in. The Dashboard will show the current date data of individuals who have registered, the total number of vaccine doses, and the sites/centres that are conducting vaccination. Hereafter, the user can book their slot by either clicking on Get Vaccinated button or choose from the tab controller. The app will by default, take the current location of the user and show the available centres nearby. Users can select the hospital as per their convenience and further fill in the general details; choose the Vaccine, Date, and time. All the appointment details will be stored in Myappointments CoreData. The user has the facility to update the name if they have entered the wrong data by mistake, or the user can cancel the appointment. The profile will show the details of the user that has logged in.

PROJECT VIEW & FUNCTIONALITIES

Covi-Vaccination

Covi-Vaccination is a mobile application designed to make the COVID-19 vaccine available to all the country's citizens. The objective of the application is to handhold the citizens to register and schedule an appointment for vaccination.

1. Registration

If the user does not have an account, he/she can register with first name, last name, email,

phone number and password .

The information will then be stored in the CoreData in user entity.

Insert the sign up info in CoreData
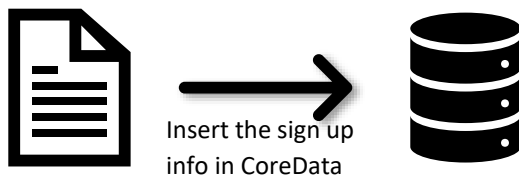
2. Login

The user will login Covi-Vaccination app with their registered email-id and password.

When the user enters their email and password the corresponding data will be checked in the

CoreData and if the login information will match the one in the database the user will be

successfully logged in.

3. Dashboard

The HomeViewController:

The dashboard demonstrates the data of the number of individuals who are fully vaccinated, total vaccine dose of that date, the centers conducting vaccination and the total registered citizens.

Acquiring the latest Covid- 19 statistics from the Cowin app, which is a government portal of India. The data would be displayed as per the current date and will be fetched from the Cowin API integration.

Latest Stats from Cowin → Get data → Display the data in the sections
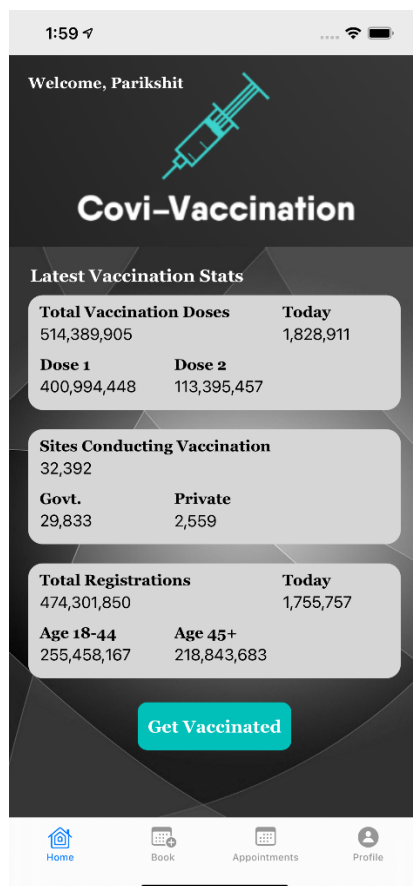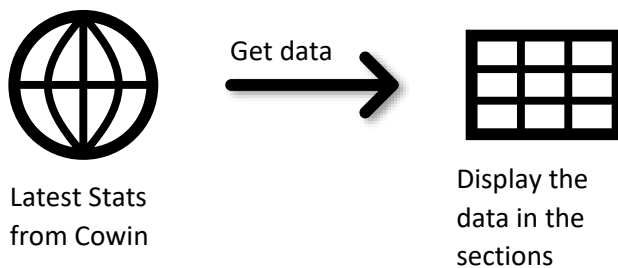
4. Select hospital
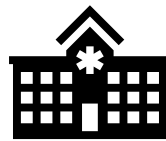
HospitalViewController:

Proceeding further to book the appointment, the HospitalViewController implements the MapKit along with CLLocationManager to fetch the current location of the user and provide the list of hospitals/vaccination centers near by which have lots available for booking.

From the list of the hospitals the user can then choose their preferred center and continue the booking by providing their details and choosing the time slot.
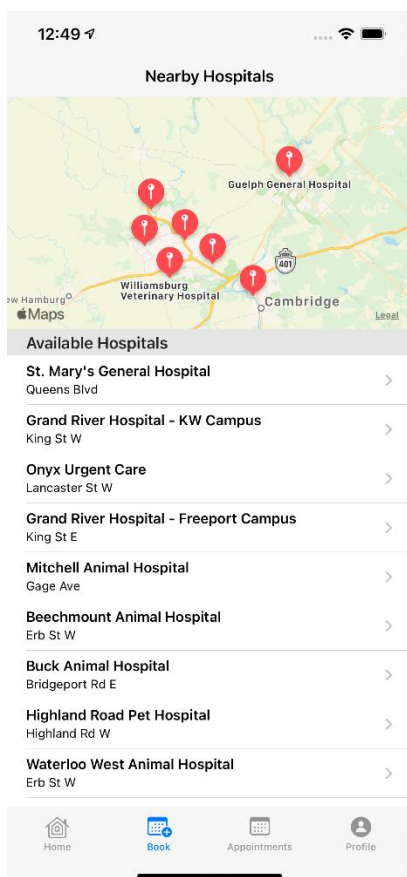
Along with the facility to zoom in and zoom out the locality can be found out easily.

Locate the
vaccination
centers using
current location

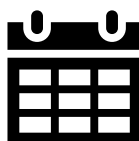Choose the
Hospital from
the map
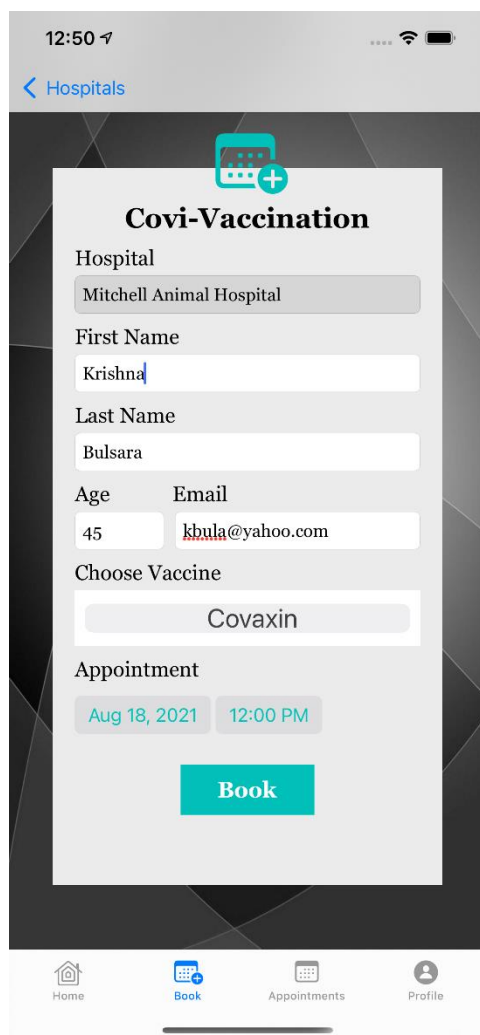
BookSlotViewController:

After choosing the preferred hospital user can continue to book a slot. To persist the appointment of the user we have used CoreData, where the name of the hospital will be filled remotely when chosen from the HospitalViewController. For choosing the vaccine brand we have use picker and Date Picker to choke the date and time of the appointment. The user can then further fill proceed to fill their details which include First-name, Last-name,

Choose the hospital

Select/book the slot

6. My Appointments
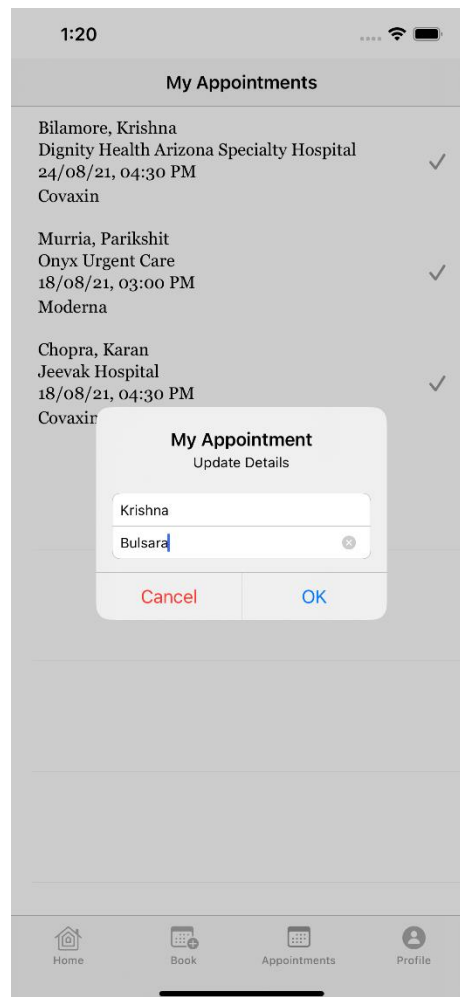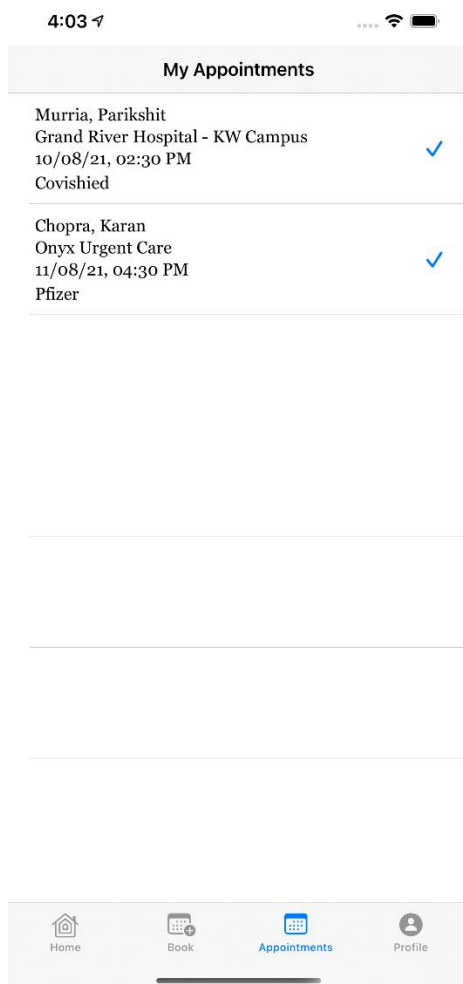
MyAppointmentsViewController:

This view contains all the appointments the user has booked, and the user is also able to cancel the appointment or edit details.

Booking details

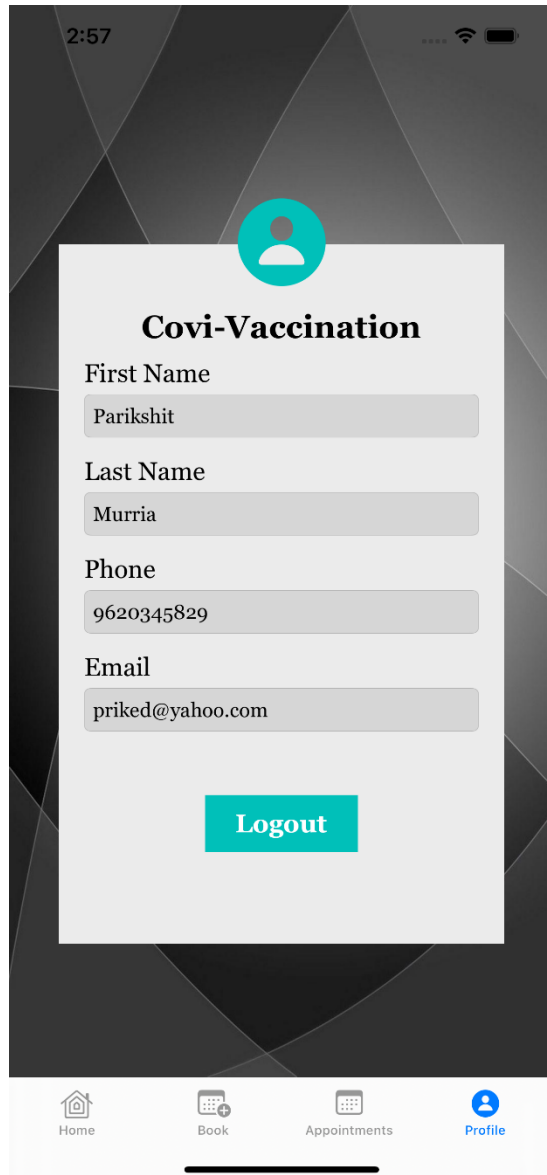All the bookings will be listed in My Appointments

7. My Profile

MyAppointmentsViewController:

In my profile view the user who has logged in will be able to see their personal details.

Also has the functionality of Log Out.

Technologies/Techniques used

Components Used:

- Array
- Tables
- MapKit
- Core Data
- JSON
- View Controller
- Navigation Controller
- Tab Controller
- Classes
- Struct