

MOBILE APPLICATION
DEVELOPMENT IOS
COVI-VACCINATION

Prepared For

Mobile Application Development – iOS

Submitted by: -

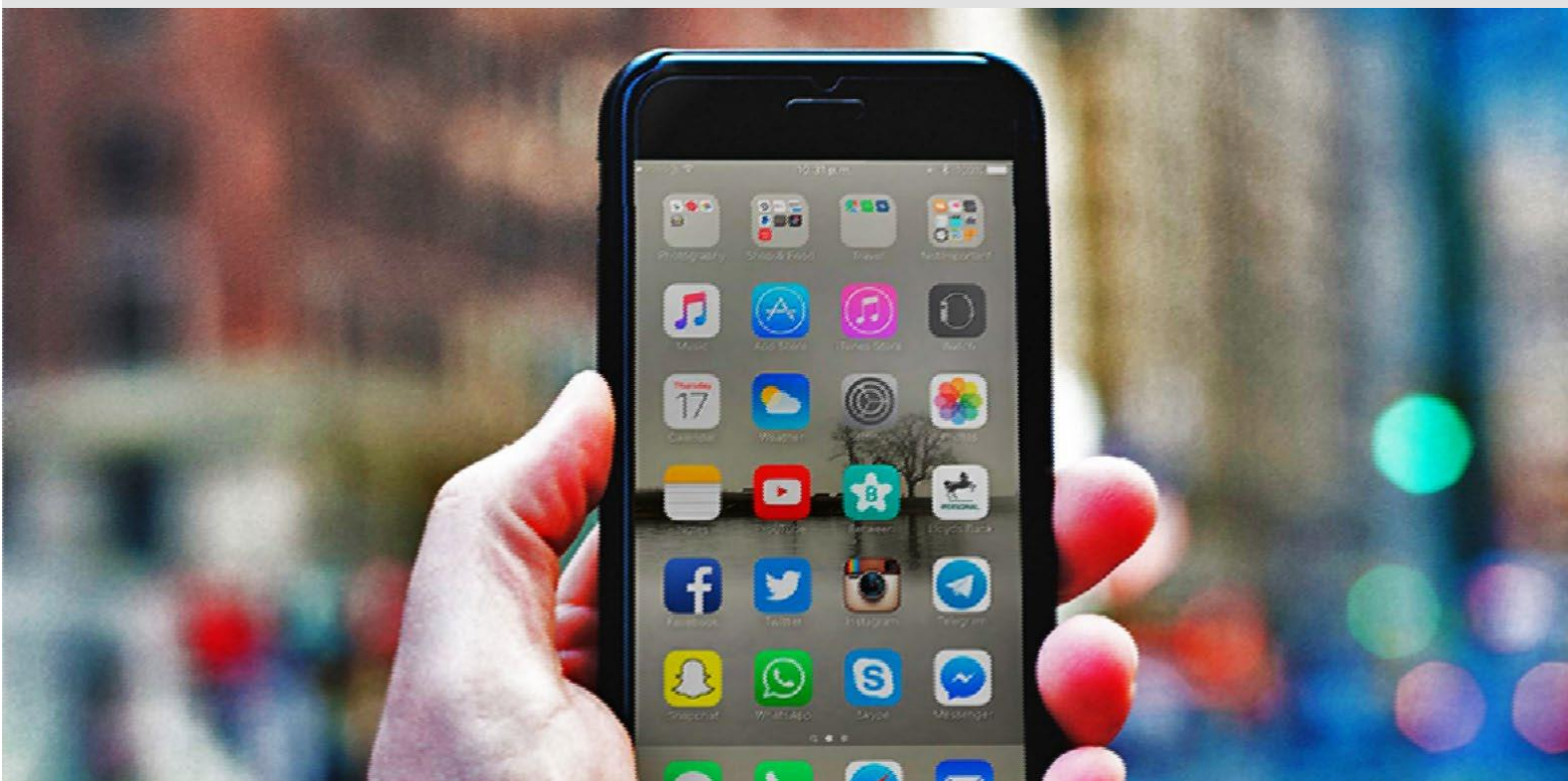
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PROJECT PURPOSE

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

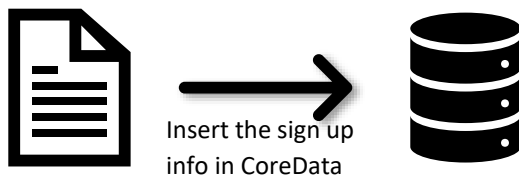
Covi-Vaccination

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.



10:52

Covi-Vaccination

First Name

Last Name

Phone

Email

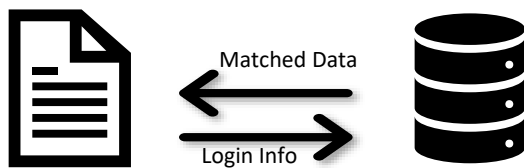
Password

Sign Up

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.



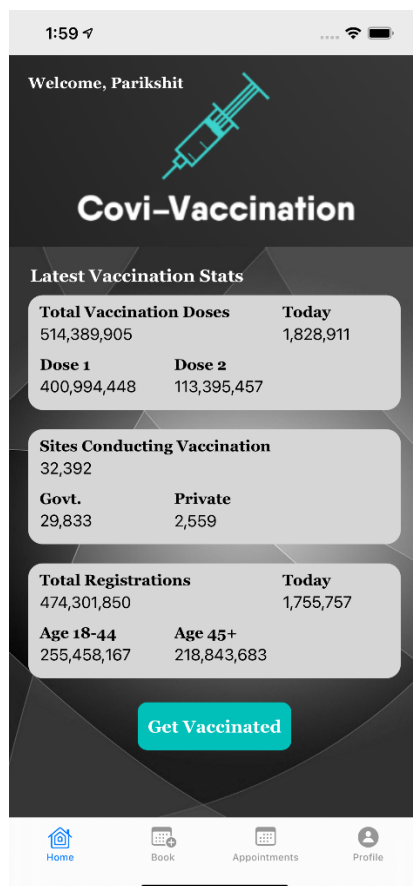
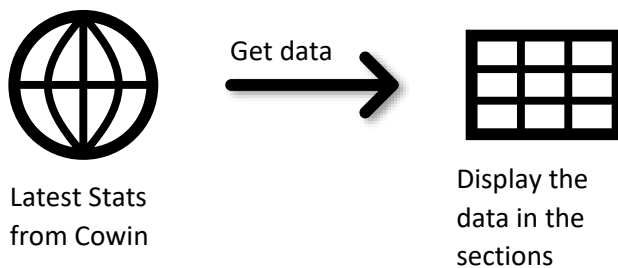
The screenshot shows the login interface of the Covi-Vaccination app. At the top, the status bar displays the time 3:01, signal strength, Wi-Fi, and battery icons. Below the status bar, the app title "Covi-Vaccination" is centered. The main background features a dark, abstract geometric pattern. A white login card is centered on the screen, containing a teal circular profile icon at the top. Below the icon, the title "Covi-Vaccination" is displayed. The card has two input fields: "Email" with the text "priked@yahoo.com" and "Password" with masked characters "••••••••". A teal "Sign in" button is positioned below the password field. At the bottom of the card, there is a link that says "Don't have an account yet?".

3. Dashboard

The HomeController:

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.



4. Select hospital

HospitalViewController:

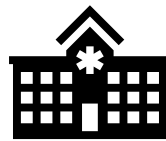
Proceeding further to book the appointment, the HospitalViewController implements the MapKit along with CLLocationManager to fetch the current location of the user and provide the list of hospitals/vaccination centers near by which have lots available for booking.

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.

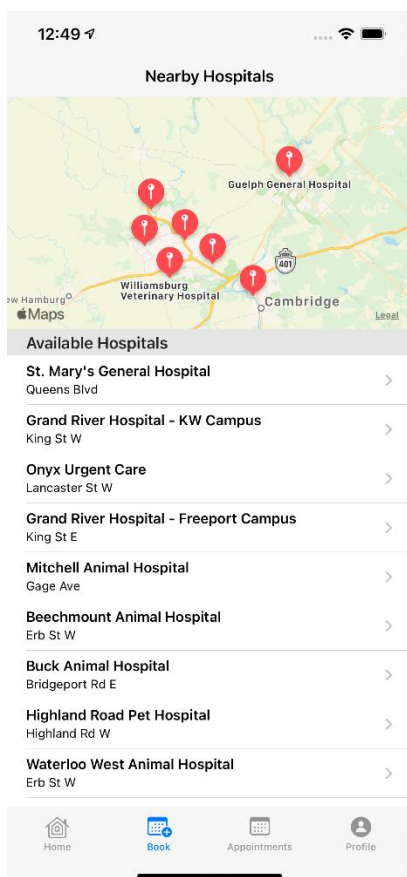
Along with the facility to zoom in and zoom out the locality can be found out easily.



Locate the
vaccination
centers using
current location



Choose the
Hospital from
the map



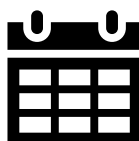
5. Book Slot

BookSlotViewController:

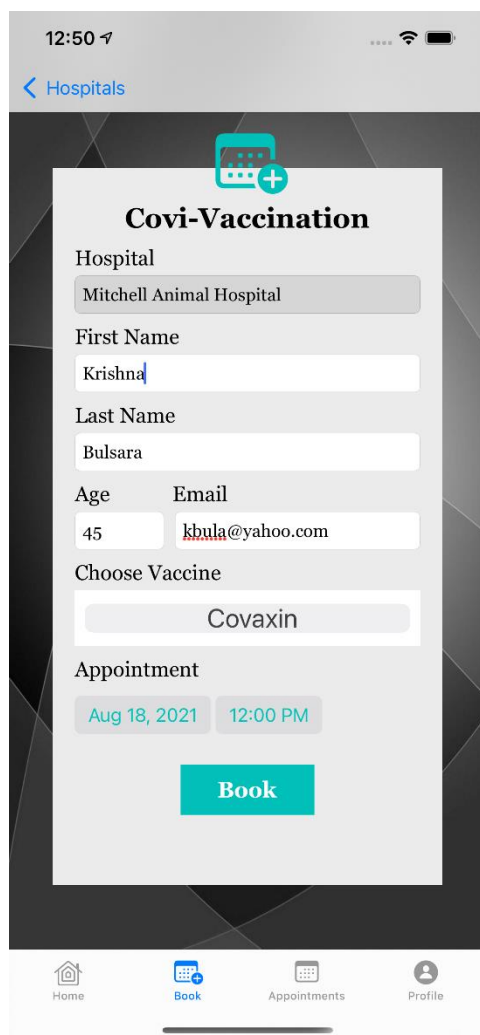
After choosing the preferred hospital user can continue to book a slot. To persist the appointment of the user we have used CoreData, where the name of the hospital will be filled remotely when chosen from the HospitalViewController. For choosing the vaccine brand we have use picker and Date Picker to 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



The screenshot shows a mobile app interface for booking a COVID-19 vaccination. At the top, there's a status bar with the time 12:50 and a back arrow labeled 'Hospitals'. Below this is a teal icon of a hospital with a plus sign. The main form is titled 'Covi-Vaccination' and contains several input fields: 'Hospital' (pre-filled with 'Mitchell Animal Hospital'), 'First Name' (pre-filled with 'Krishna'), 'Last Name' (pre-filled with 'Bulsara'), 'Age' (pre-filled with '45'), and 'Email' (pre-filled with 'kbula@yahoo.com'). There's a 'Choose Vaccine' section with a dropdown menu showing 'Covaxin'. Below that is an 'Appointment' section with two date/time pickers showing 'Aug 18, 2021' and '12:00 PM'. At the bottom of the form is a large teal 'Book' button. The app's bottom navigation bar has four icons: 'Home', 'Book' (highlighted), 'Appointments', and 'Profile'.

6. My Appointments

MyAppointmentsViewController:

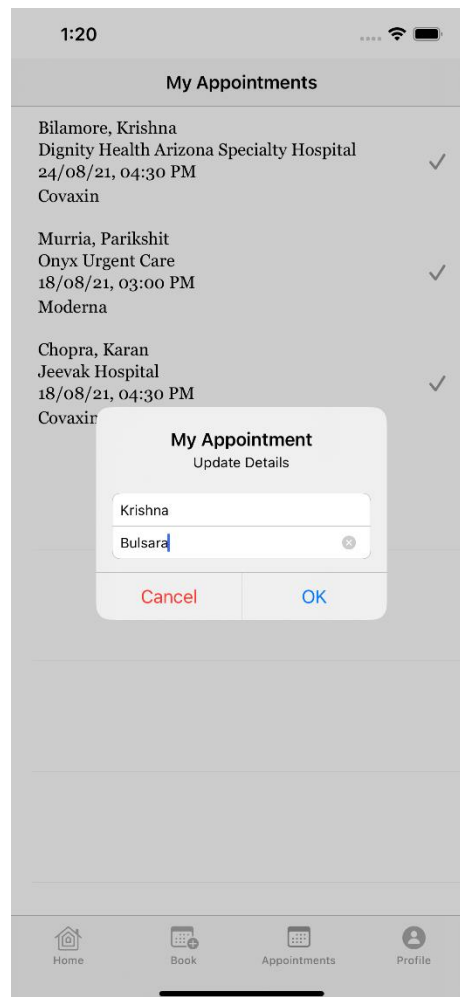
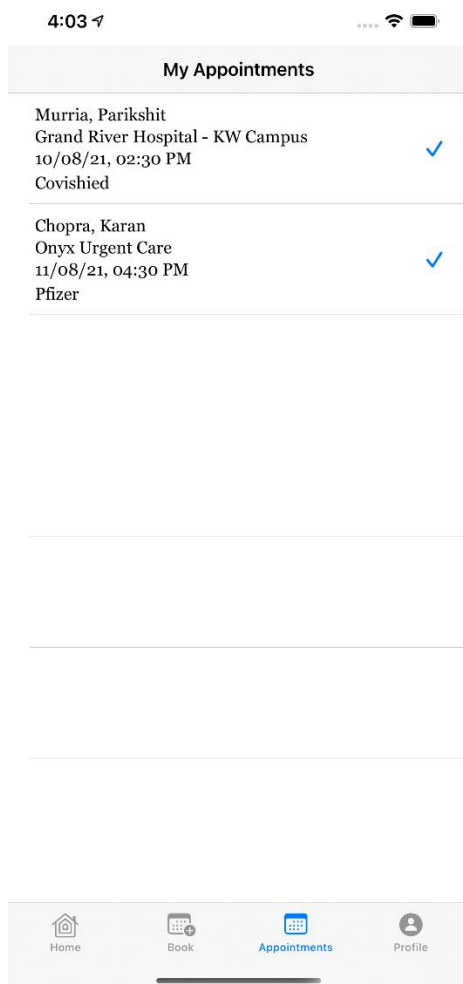
This view contains all the appointments the user has booked, and the user is also able to cancel the appointment or edit details.



Booking
details



All the bookings
will be listed in My
Appointments

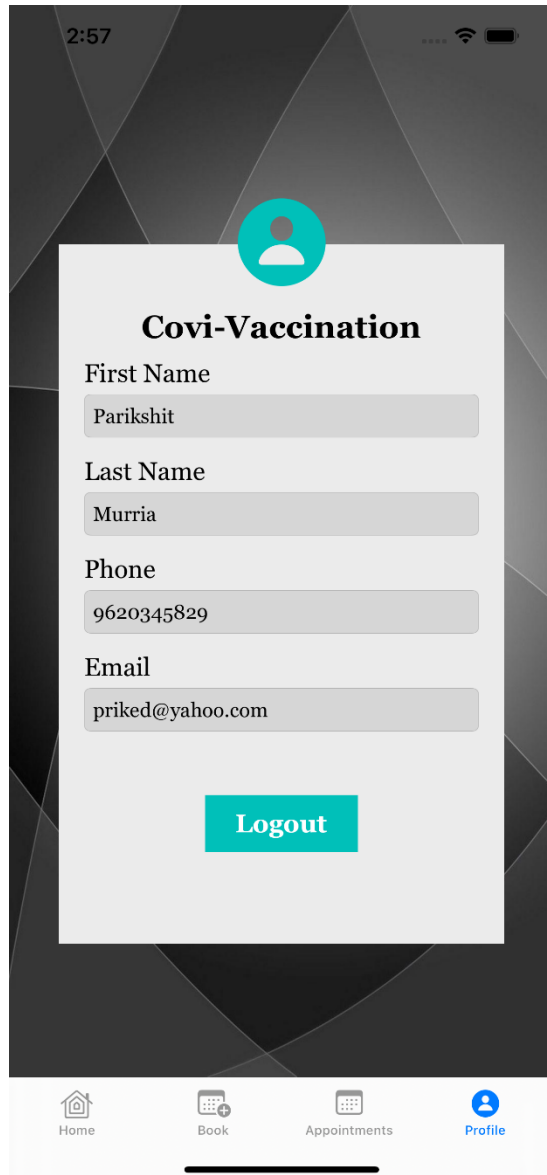


7. My Profile

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