

## Web App Coursework Functionalities and API Requirements:

1. **Sign Up** (Automatic redirection to Sign In after successful Sign Up) - Sign Up for the Patient.
2. **Sign In** - Sign In for the User based on Roles and redirection to their respective Dashboard
  1. Fetch User Roles (Admin, Doctor, Practitioner, Patient)
3. **Admin Dashboard**
  1. Fetch Pending Patient-Practice registration requests - Functionality to approve or decline request from Patient to register to a Practice
  2. **Fetch GDPR View requests - Functionality to approve or decline all the view requests raised by users**
  3. **Fetch GDPR Update requests - Functionality to approve or decline all the update requests raised by users**
  4. **Fetch GDPR Delete requests - Functionality to approve or decline all the delete requests raised by users**
4. **Doctor Dashboard**
  1. Fetch all approved appointment booking requests - Display all the upcoming appointments. Provide the functionality of updating medical history, generating prescriptions, specialist referral, and order tests.
  2. POST API to upload medical history for the appointment.
  3. POST API to upload Prescription.
  4. GET API to fetch Practice Details on selection of Specialist Referral.
  5. **POST API to submit specialist referral**
  6. **POST API to submit any tests ordered.**
5. **Practitioner Dashboard**
  1. Fetch Pending Patient-Appointment\_Booking Requests - Functionality to Approve/Reject/Offer Alternative to the request. Request would display user details, appointment date, whether it is a specialist referral. Appointments would be of 2 types - Check Up and Test.
  2. PUT API to Approve the request
  3. PUT API to Reject the request
  4. POST API to offer alternative to the request (Change of

appointment date)

5. POST API to update Medical History on receiving the test result.

## 6. Patient Dashboard

1. GET API to Fetch All Practice details and display in the form of cards
2. GET API to check the status of User registration to a practice.  
Enable/Disable the Register button based on API response.  
PENDING/DECLINED/No\_Records Status - Enable Button  
APPROVED - Disable Button
3. The same GET API as #2 would be required to Enable/Disable the Appointment Booking button.  
PENDING/DECLINED/No\_Records Status - Disable Button  
APPROVED - Enable Button
4. Appointment Booking Form
  1. GET API to display all Practices when selected the checkbox of Specialist Referral
  2. POST API to save the appointment details
5. GET API to display all the Appointment Bookings requested by the Patient. (Advanced Functionality - Use Request Status as input to the API which will be used for filter functionality).
6. GET API to display all the prescriptions against the booked appointments.
7. GET API to display all the medical history for the Patient in the descending order of appointment date.
8. **GET API to display specialist referral for the appointment**
9. **GET API to display tests ordered for the appointment**
10. **POST APIs to create a GDPR request** (View/Update/Delete request).

## 7. Email API for multiple functionalities

1. Sign Up to Website
2. Patient's request creation for Practice registration
3. Response on the Practice Registration
4. Appointment booking request creation
5. Response on appointment booking
6. Prescription issuance and medical history update
7. Test result
8. GDPR View/Update/Delete request creation
9. GDPR View/Update/Delete response received. Display the records in the email if the request has been approved by the Admin.