E-Vaidya
HC-Automation

User Manual

for

E-Vaidya

Version 1.0

Prepared by

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Version	Primary Author(s)	Description of Version	Date Completed
1.0	Debuggers	Built a web app that will allow users to access significant facilities of HC. The HC staff, including the Doctor, Receptionist, Nurse, and Pharmacist, will be able to perform their work, i.e., prescribing medicines, allotting Doctor, updating vitals, despatching medicines etc.	31/03/23

1 Purpose

The IITK Campus community must go through a primitive and traditional method of requesting appointments and any other service at the Health Centre IITK. An individual has to maintain the Health Booklet, which is necessary to access the facilities at Health Centre and contains all his medical history and related medical information.

- It becomes an ordeal for the staff as well as the patients to track medical history without this booklet.
- The currently accessible appointment system lacks user-friendliness as well as an integrated system
- It is very cumbersome for a person to access all his medical reports at the same time because there is no such automated system
- Doctors have no information regarding upcoming appointments or how many appointments are pending
- Students sometimes have to wait for so long due to the high concentration of appointments at the same doctor

Most of our team members have personally faced the above issues firsthand. So, when we were instructed to develop software that caters to some issues faced by the campus junta, we immediately proposed to solve the above-mentioned issue by creating a digital platform/portal and automating the entire health center of IIT Kanpur.

This application solves all the major issues in the following way-

- User can book an appointment with the option of choosing a slot, type of appointment, and preferred slot, etc., at his comfort place.
- The document storage ordeal gets eradicated as all medical reports and other medical documents would be stored digitally and in a very organized way for quick reference in the future if required.
- Receptionist can
- Upload medical reports and other documents in a digitized way through the application
- Assign doctors to appointments in sync with the schedule of doctors and can also make sure that there is not much concentration on a single doctor
- Entire system is digitized, making it easy to maintain the daily functioning of a health center and avoid any data loss for any user.

2 Audience

This document is meant for-

1. **Students –** They would be able to access the HC facilities online through this portal, from signing up as a student to requesting an appointment, checking their medical history and doctor's schedule, and viewing their upcoming appointments.

2. **Doctors-** They would be able to view and conduct appointments of students along with prescribing the medicines, which will be sent to the pharmacy for the dispatch of the medicines, and they would be able to see the schedule of the doctors for the day.

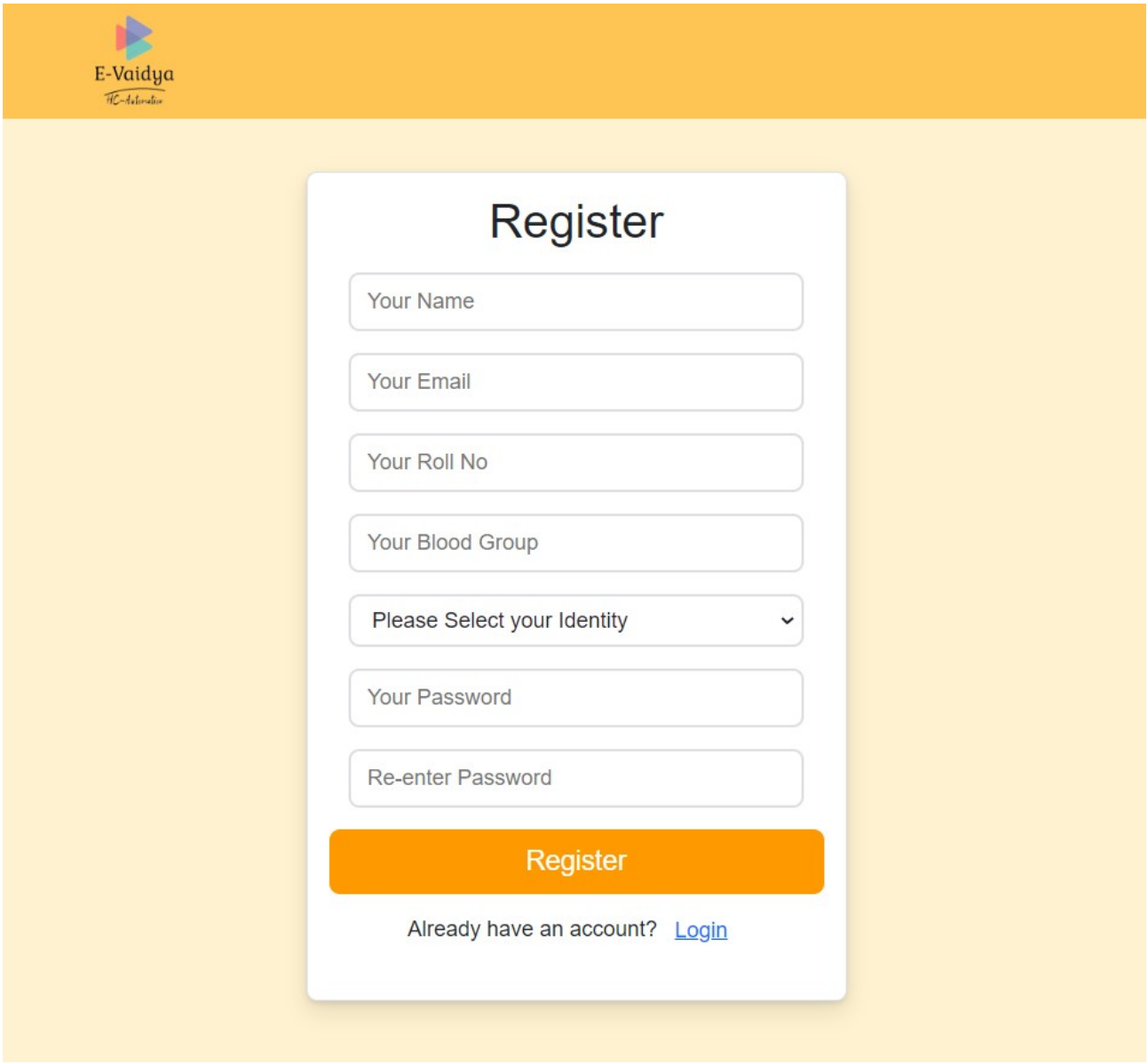
3. **Receptionists -** They would be able to view and schedule the appointment requests of the students, upload the medical reports, and view the appointment status also, they will be able to set the schedule of doctors for the day.

4. **Nurses -** The nurse would be able to enter the person's vital information like temperature, blood pressure, and oxygen which she gets access to by just entering the roll/PF no of the patient.

5. **Pharmacists** - The pharmacist receives the prescription as soon as the doctor completes the appointment. Pharmacists can view all completed and pending prescriptions. Sometimes there are medicines that are not available at the HC Pharmacy, so this application provides the facility of selecting those available and printing the list of remaining medicines that can then be used by patients to get medicines from an external pharmacy.

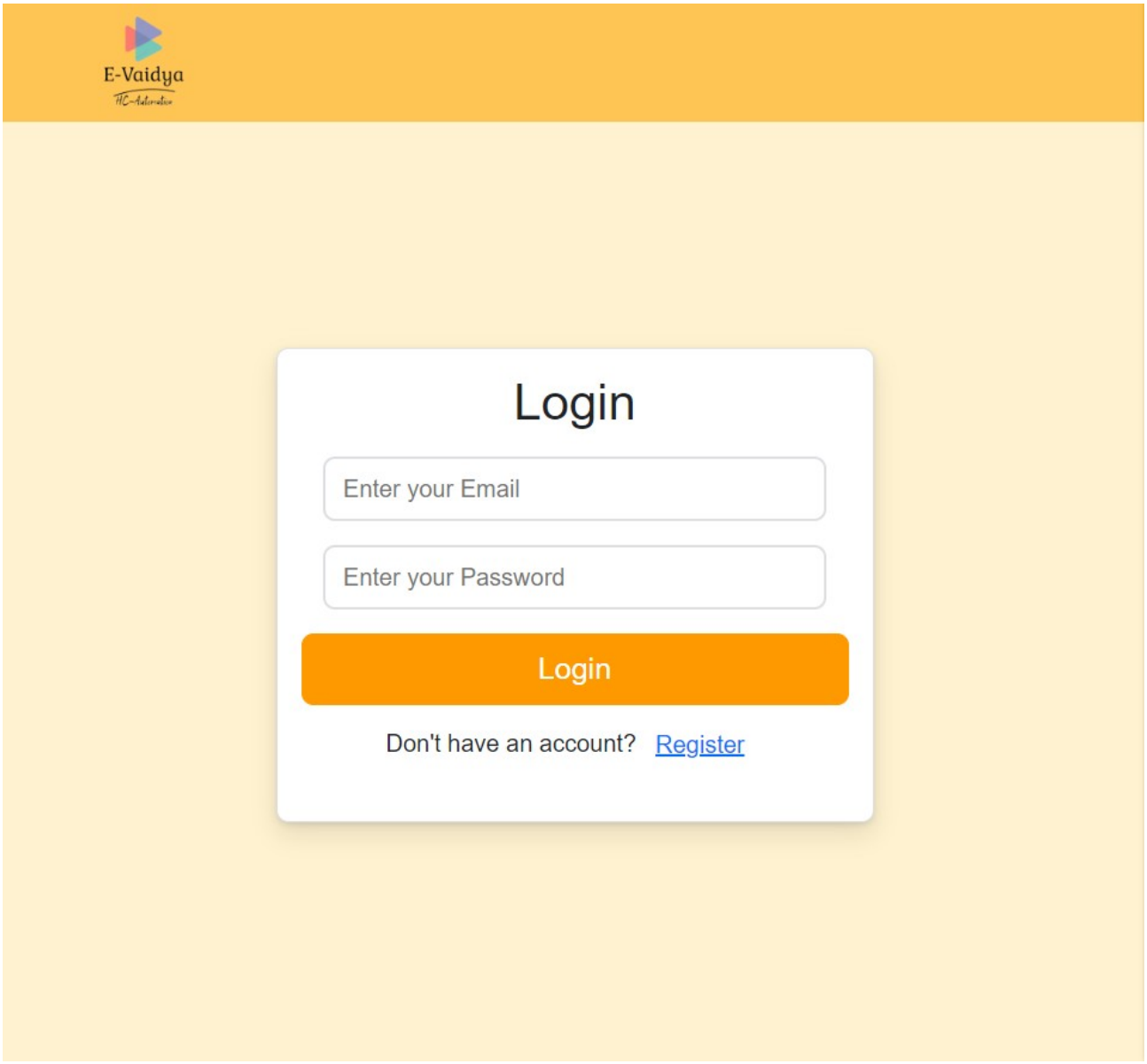
3 Register & Login

Register



- When using it for the first time, you must register to the E-Vaidya.
- When you click the Register button on the sign-in page, you will be redirected to the above page.
- Enter your valid details to register.

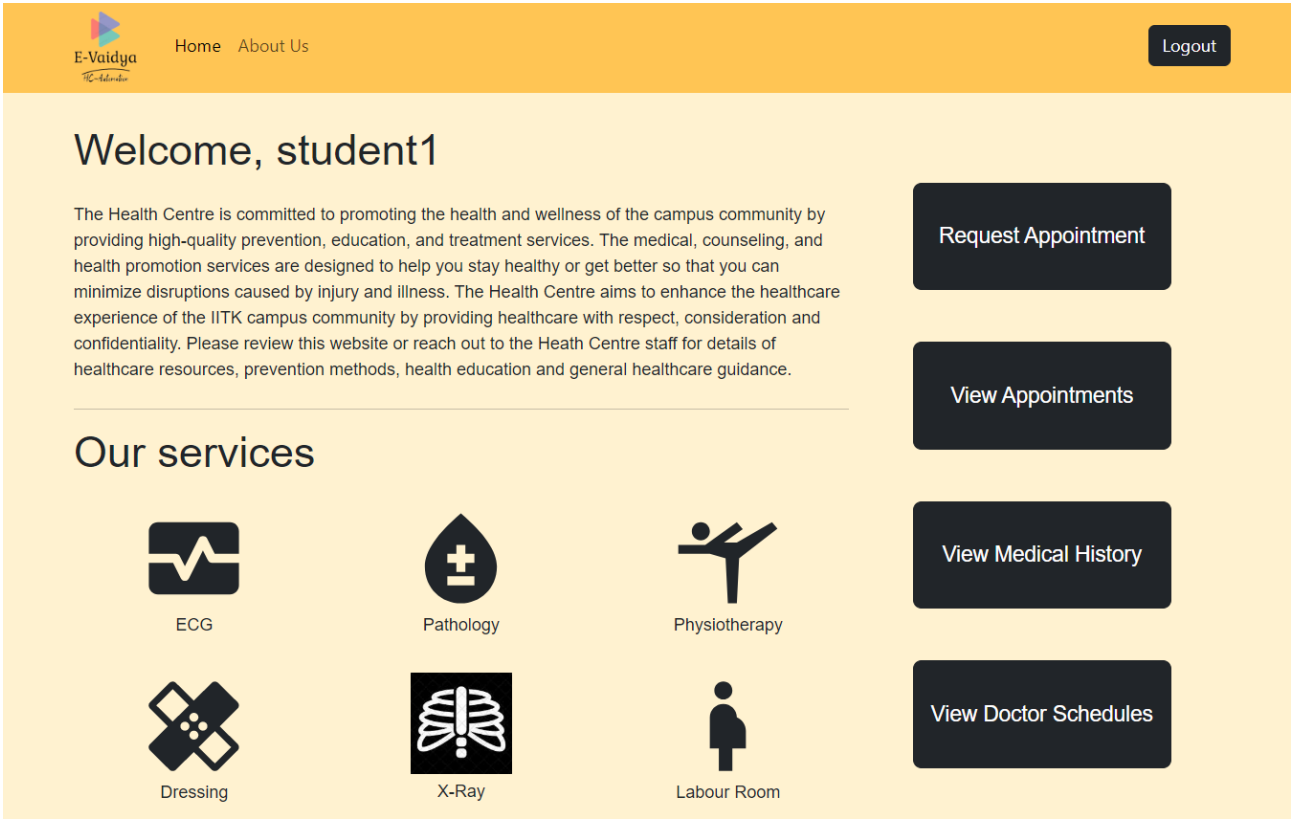
Login



- If you have registered, you can enter your registered email-id with your password and login into the system.
- Depending on your role (Student, Doctor, Pharmacist, Receptionist, Nurse), you will have an appropriate dashboard and authority.

4 Student

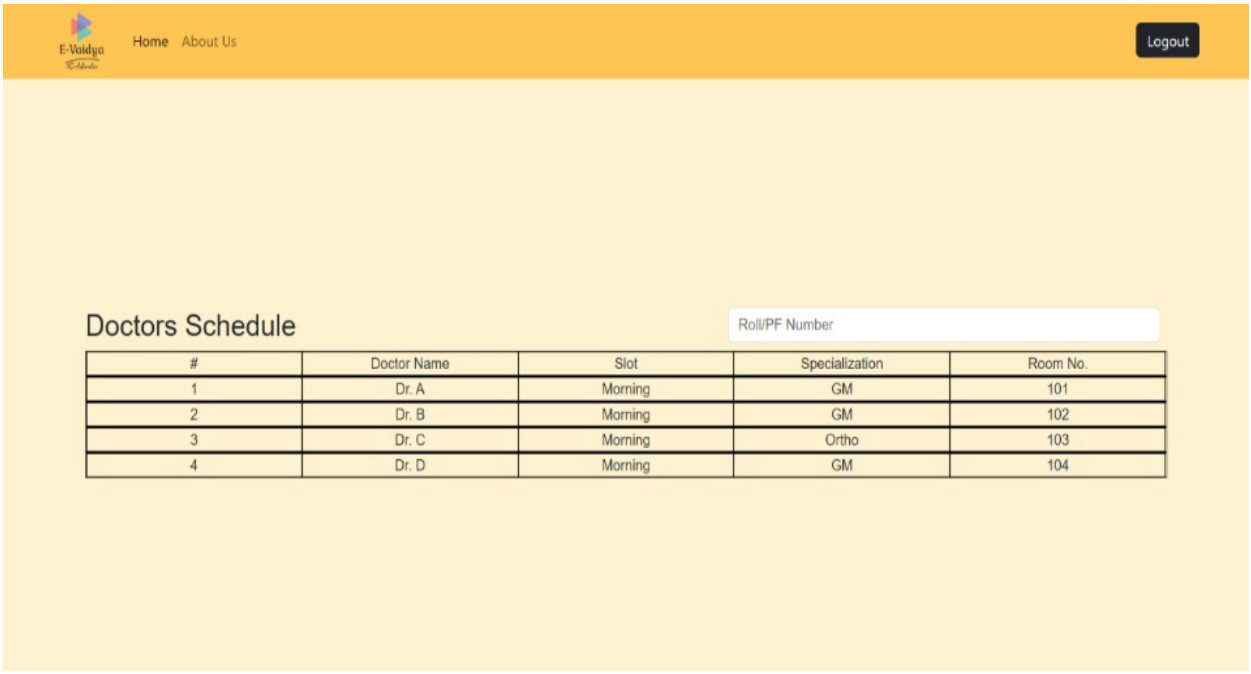
Home Page



This is the dashboard of a student account.
You can

- request an appointment.
- view your upcoming appointments, which have been approved by the Receptionist.
- view your medical history.
- view Doctors' schedules for the present day

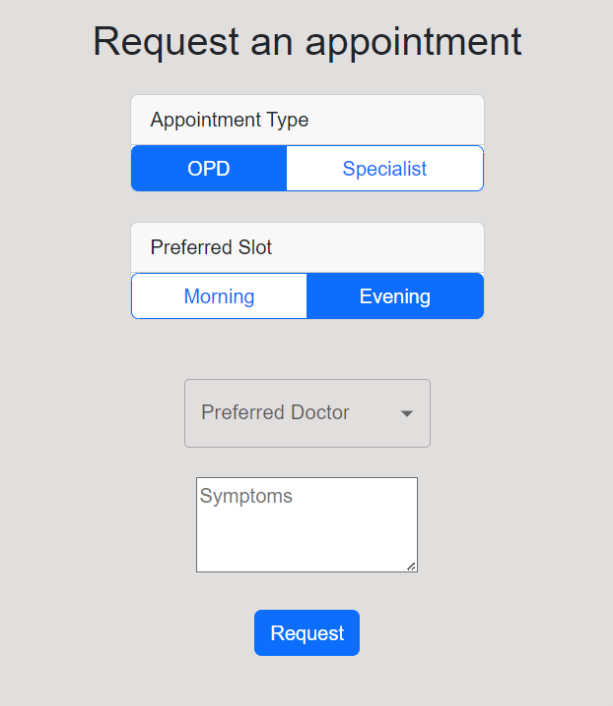
View Doctor's Schedule



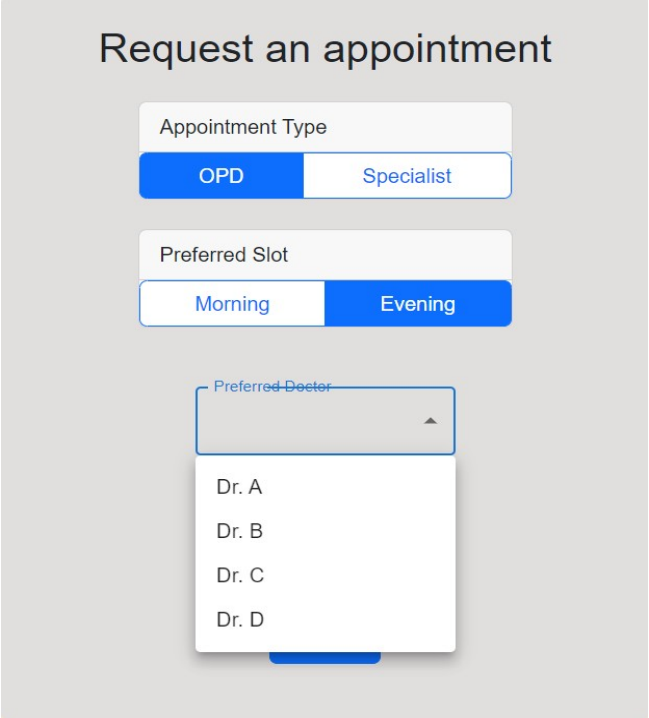
#	Doctor Name	Slot	Specialization	Room No.
1	Dr. A	Morning	GM	101
2	Dr. B	Morning	GM	102
3	Dr. C	Morning	Ortho	103
4	Dr. D	Morning	GM	104

- You see the above screen when you click on Doctor's Schedule button.
- You can see the name of doctors who have duty assigned that day along with their slots.
- In this way, you can plan your appointment in sync with your daily schedule.

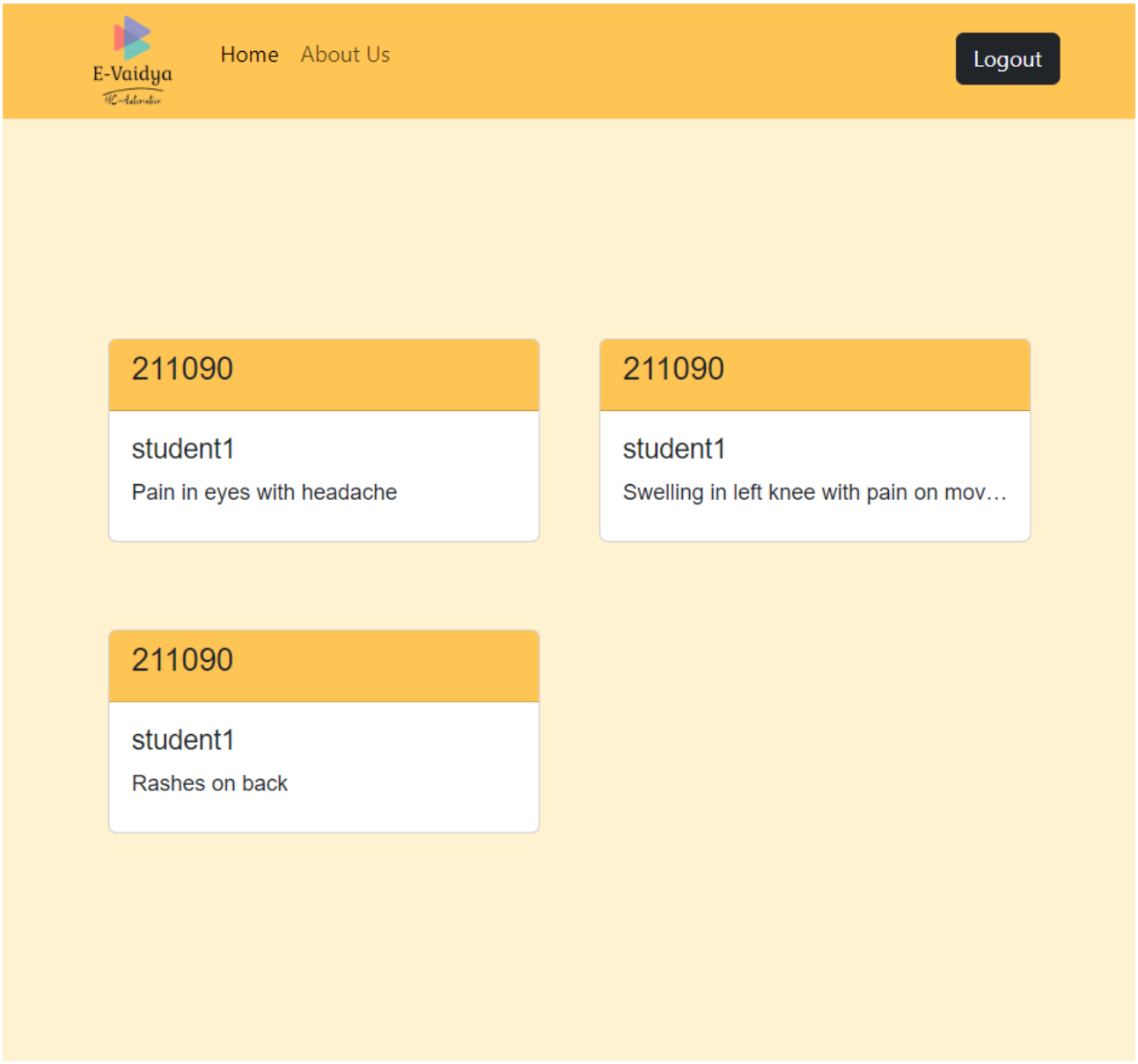
Request Appointment



1. On clicking 'Request an_appointment,' you are redirected to the above page.
2. You can choose either a regular OPD appointment or a specialist appointment (Ophthalmologist, Dermatologist, etc.)
3. Depending on your day's schedule, you can select either morning or evening slot.
4. With this, you are also provided the option to select the Doctor whose schedule coincides with the appointment slot that you have selected. It is not necessary that the preferred Doctor is assigned to you as it depends on the number of appointment requests made to that Doctor.
5. Finally, you enter the symptoms you are observing, which the Doctor and receptionist will see during your appointment.

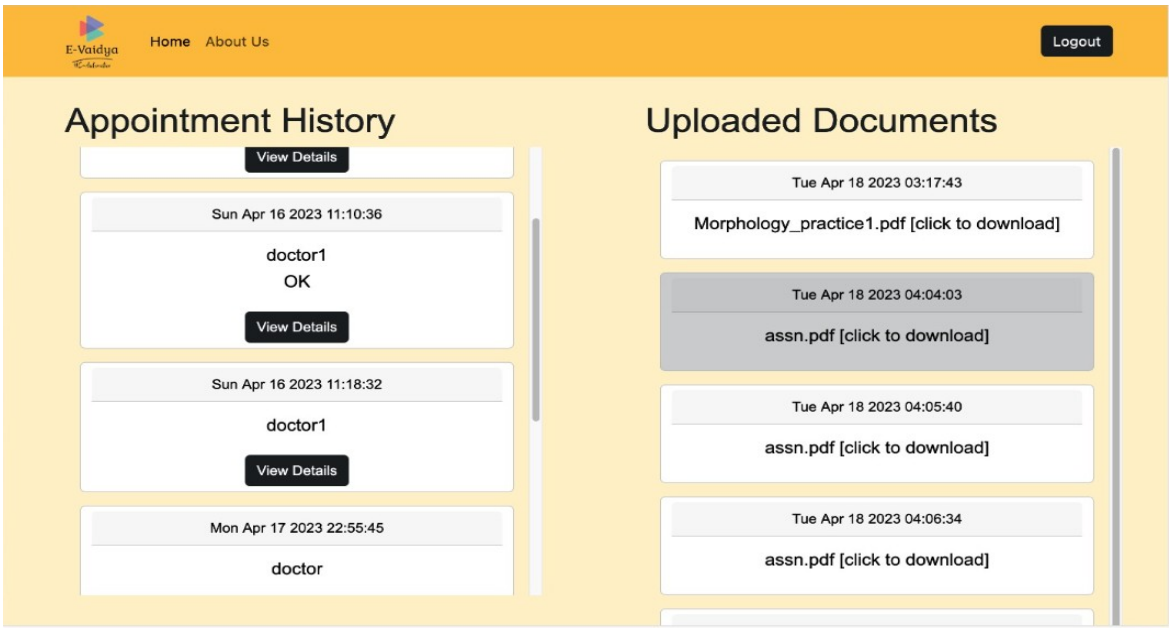


View Upcoming Appointments



- Click on “View Upcoming Appointments,” to see the above page.
- If you have made any appointments will show up here with basic details associated to that appointment will be shown on the card

View Medical History



- The medical history of your previous appointments will be visible here.
- Medical history contains information regarding the appointment details, medicines prescribed by a doctor, medical reports (if any), and your vitals.
- You can see your medical reports here (uploaded by the receptionist)
- The medical history as well as the uploaded reports are sorted in chronological order.

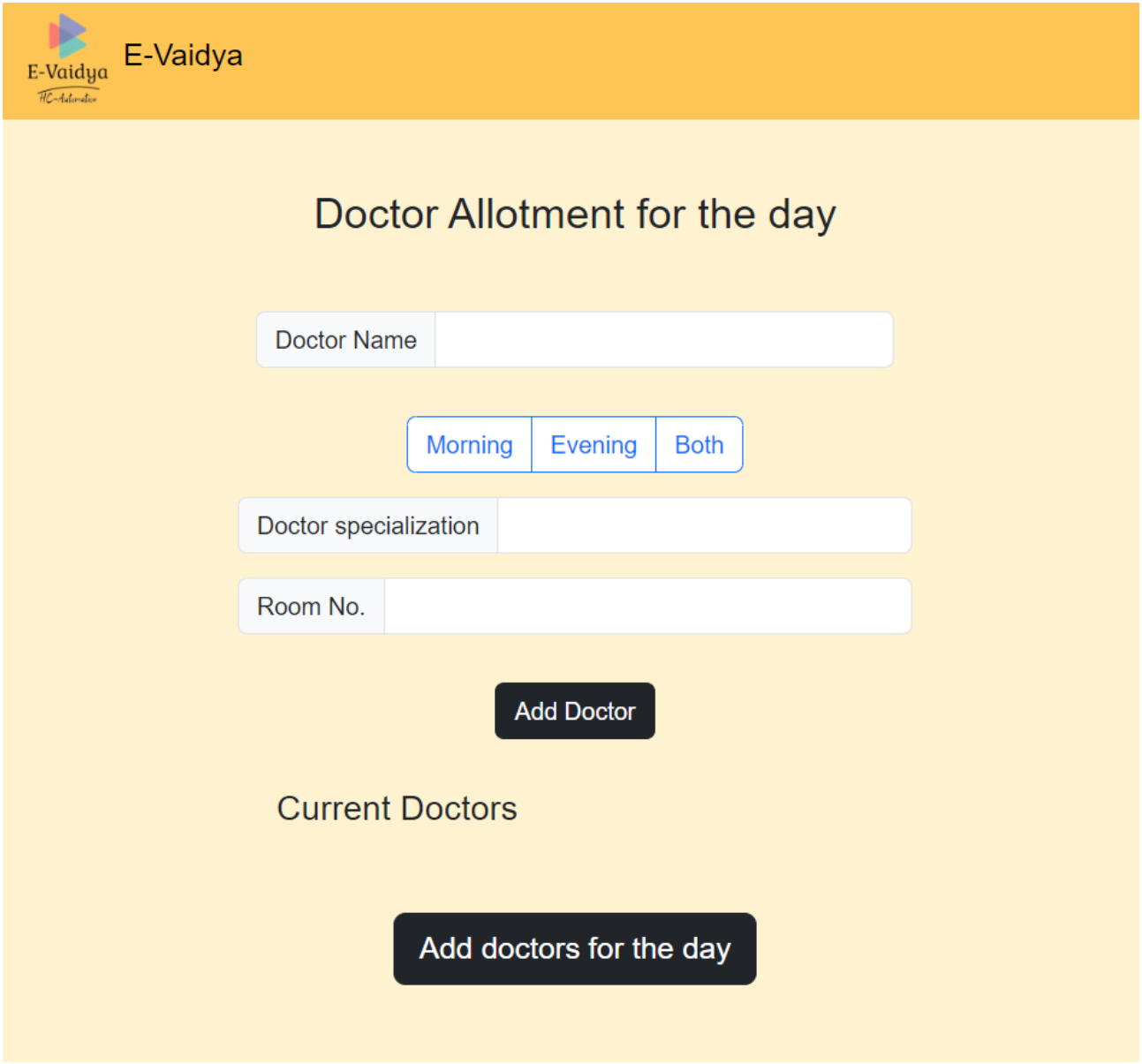
5 Receptionist

Home Page

If your role is Receptionist, then the above page is shown as the home page(dashboard).
You can:

- View the Appointment Requests made by the student.
- View the status of the approved appointments.
- Upload the Medical Reports of Students
- Set the schedule for doctors for the day.

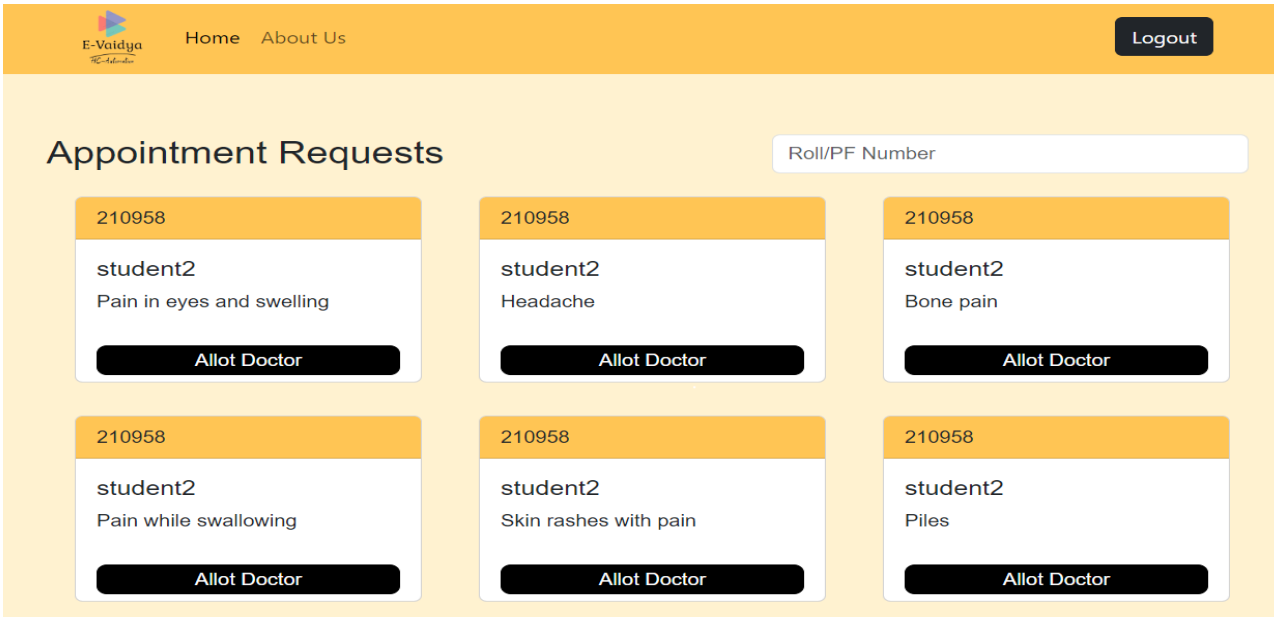
Set Doctor Schedule



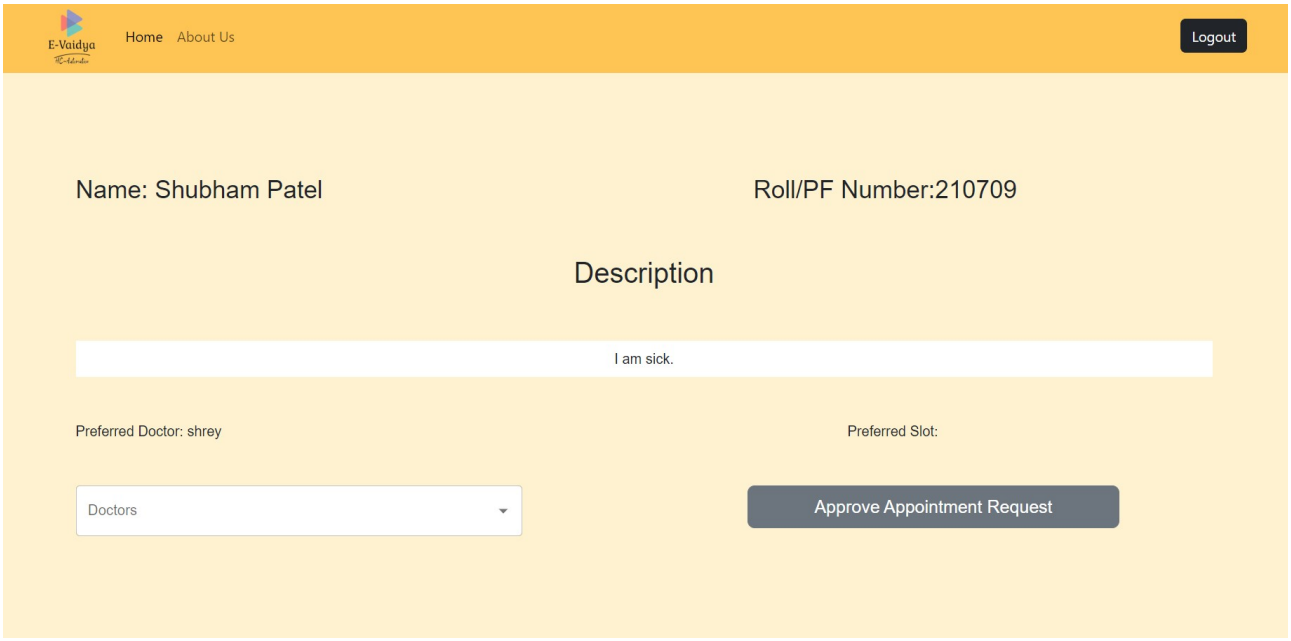
The receptionist is assigned the job of setting the doctor's schedule for the next day. The steps involved are:

- Type the name of the Doctor to whom you want to set the schedule.
- Then select the slot, Morning/Evening/Both
- You should also enter the Doctor's specialization (Dentist, Ophthalmologist, etc.)
- Then, assign the room number to the doctor.
- Click 'Add Doctor' to add more doctors for the day.
- Click on 'Add doctors for the day' to add the doctors of that day.

View Appointment Requests

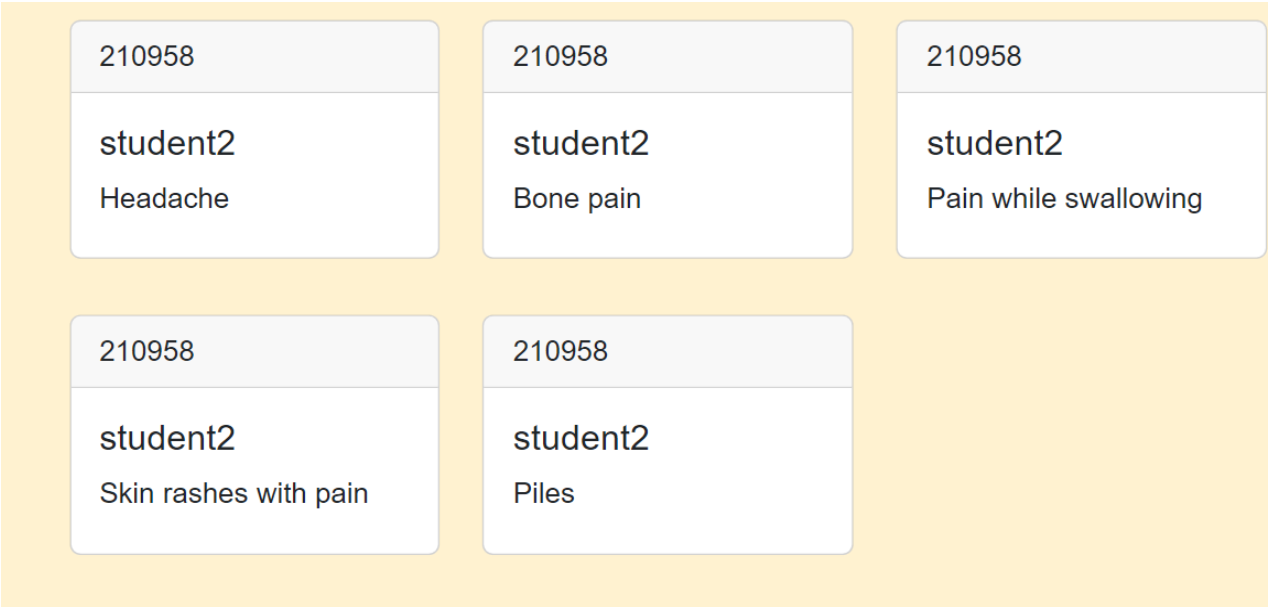


- The following are the requests made by the students which are pending. To approve and redirect the request to the appropriate Doctor, click “Allot Doctor”.



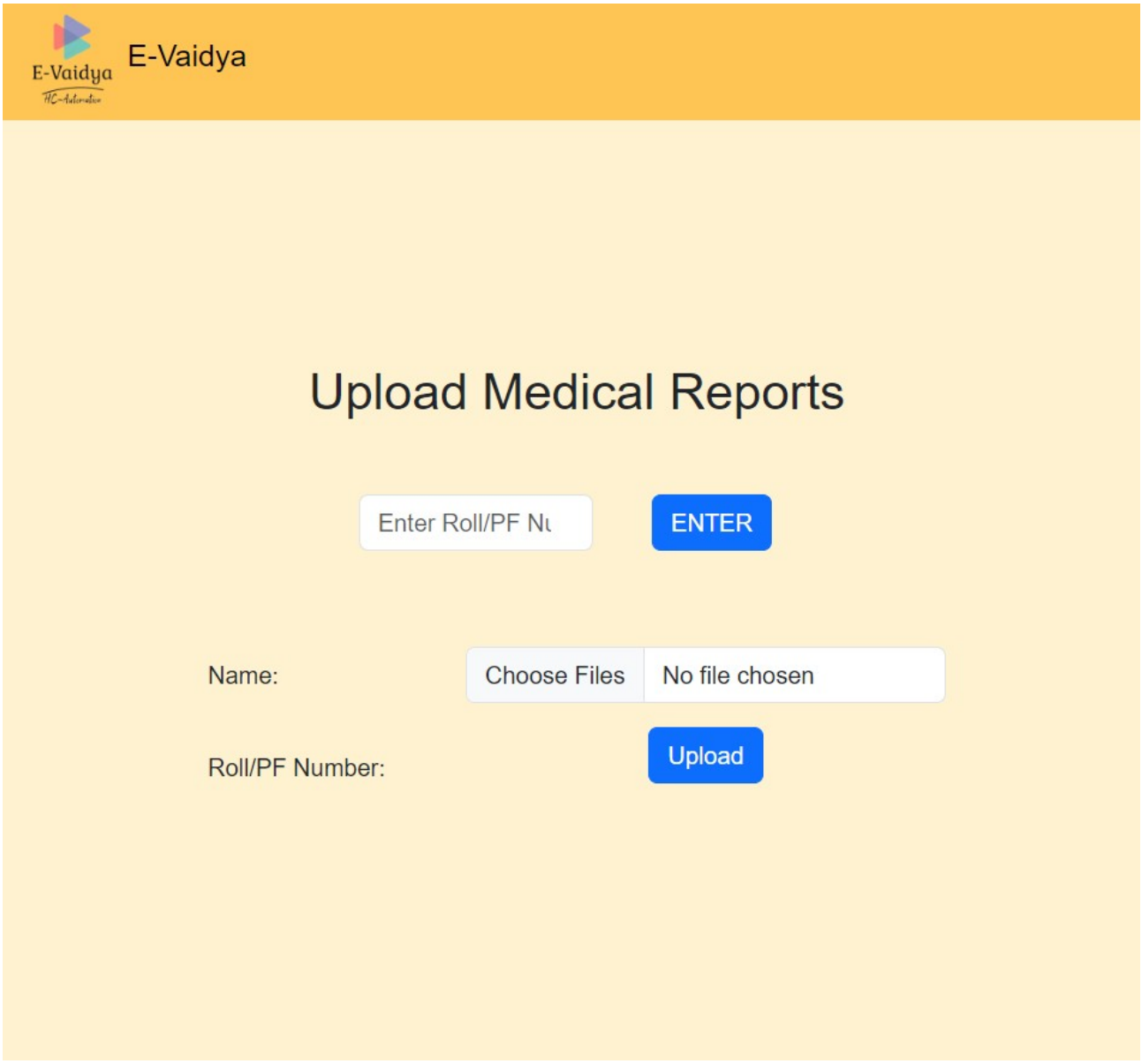
- Select the Doctor who must be assigned, keeping in mind the availability of doctors and the preferred Doctor of the Student.

View Appointment Status



- You (the receptionist) can view the accepted appointment requests that have not yet been conducted.
- You can see basic information like the Roll/PF number of the patient, patient name, symptoms (if mentioned in request)

Upload Medical Reports

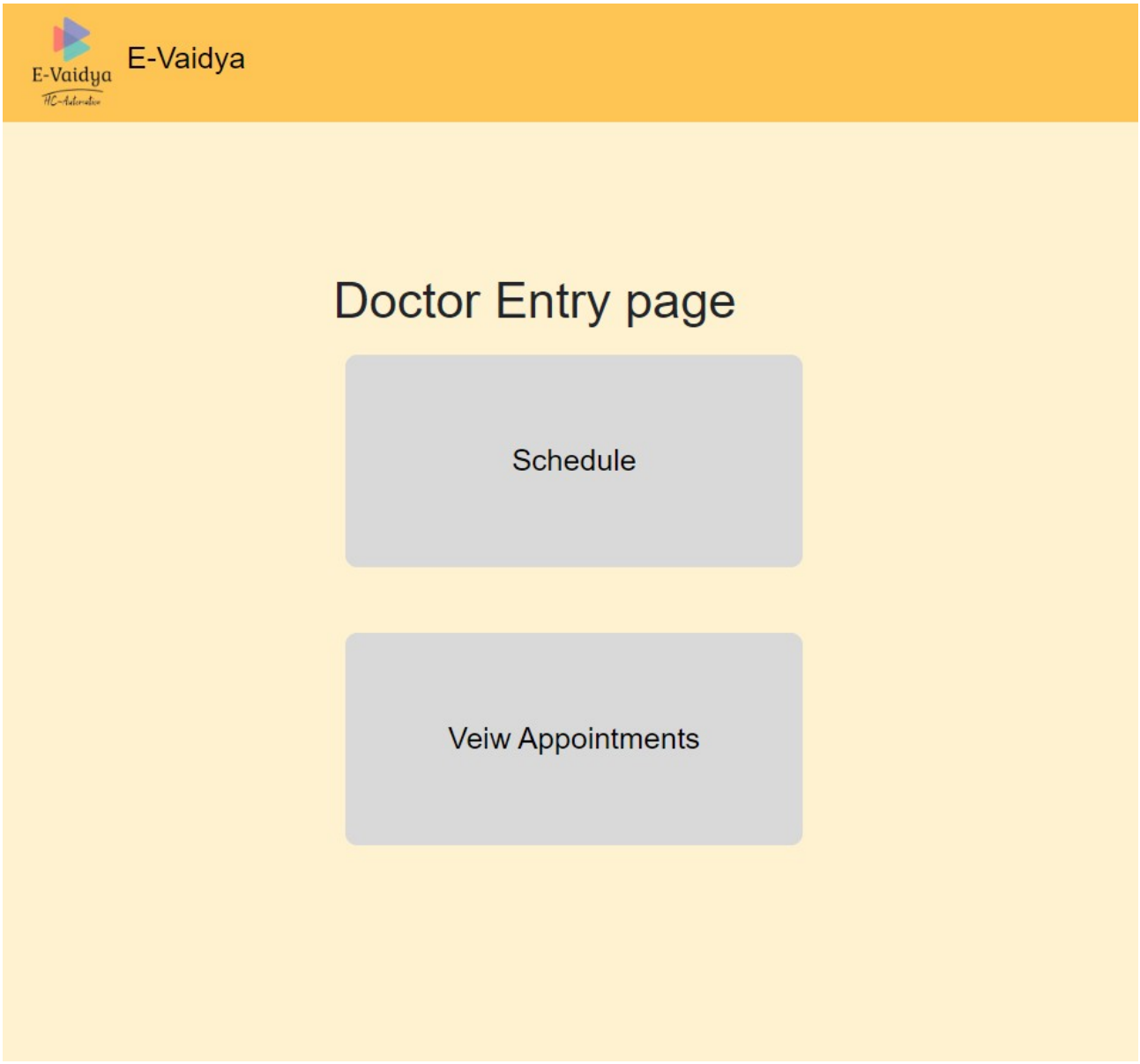


To Upload the Medical Reports:

- Enter the Roll Number of the Student whose medical reports you want to upload.
- Click on ‘Choose Files’ and then browse files on your local system to upload it.
- After choosing file, click on upload.

6 Doctor

Home Page

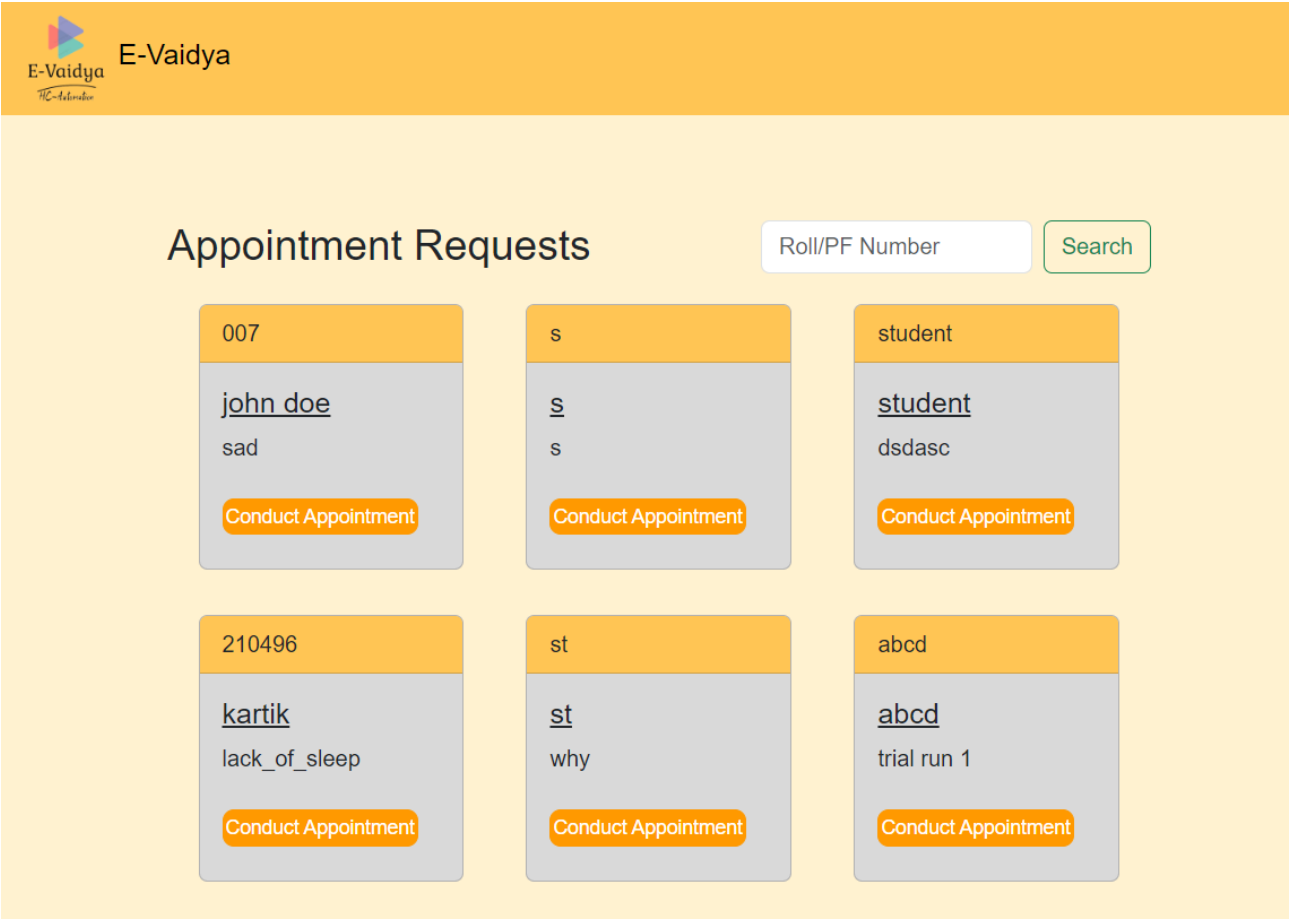


Home page of the Doctor.

- To view your day's schedule, click "Schedule."
- To view the upcoming appointments you must conduct, click "View Appointments."

Appointments

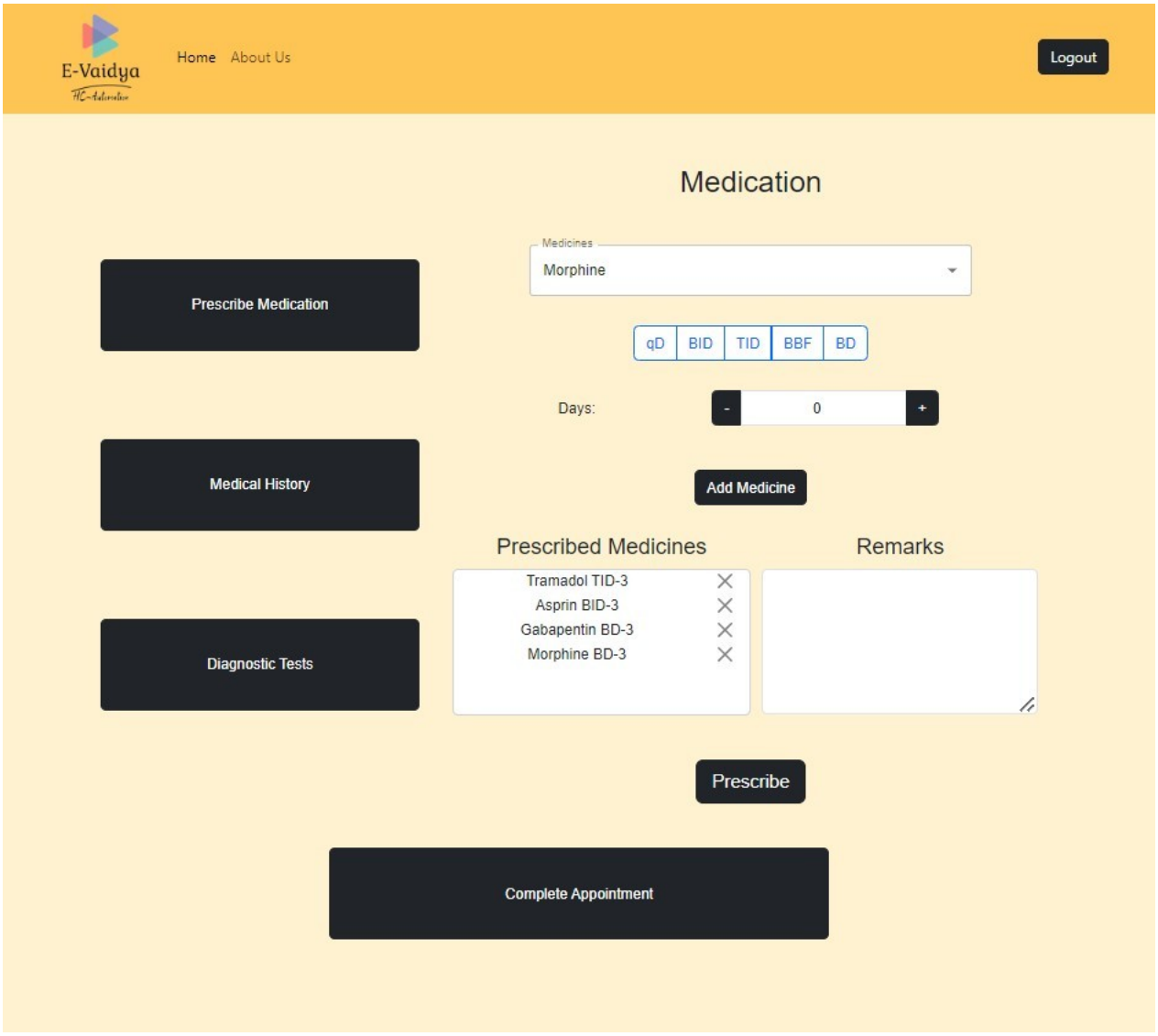
Starting Appointment



- To start any appointment, hover over the card of the appointment you want to conduct and then click on 'Conduct Appointment.'
- If there are many appointments, you can just type the Roll/PF Number in the search bar and the corresponding appointment card will be displayed.

Appointment Conduction

Prescribing Medicines

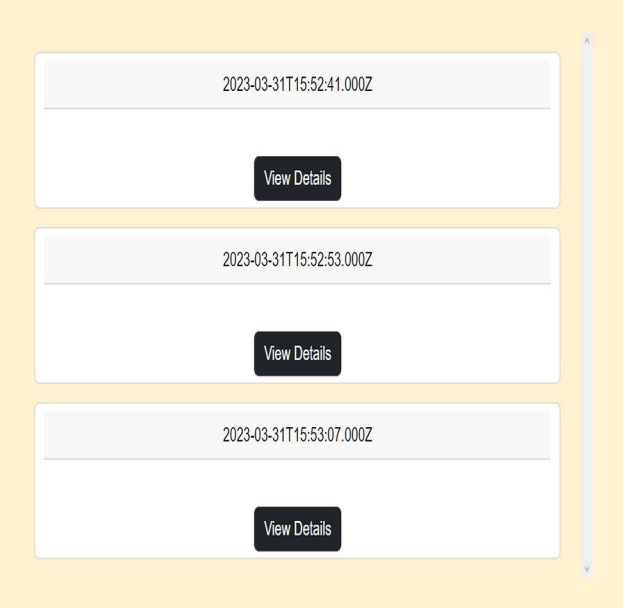


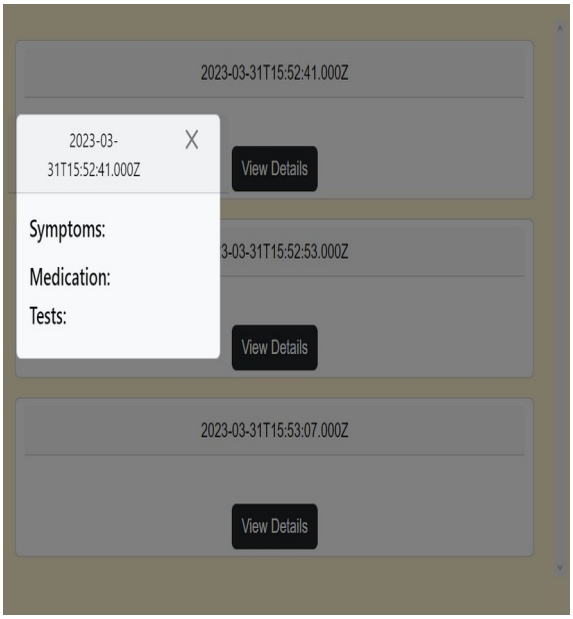
- Doctor writes the initials of the medicine, and then a dropdown appears with a list of medicines whose name starts with the given initials.
- Doctor then can choose the appropriate medicine.
- After choosing the medicine, you can specify the times of day when to take the medicines using five buttons (contains medical jargon).
- Then specify the Number of days to take doses. Finally, click on ‘Add Medicine’ to prescribe the medicines.

Diagnosing Tests

- Doctor can specify the diagnostic tests (if any) by clicking the diagnostic tests button.
- Tests of the Patient include X-rays, Blood Sugar Levels, Amylase tests etc. to advanced tests such as biopsies.
- To prescribe a test for the Patient, click “Diagnostic Tests”.

Viewing Patient's Medical History





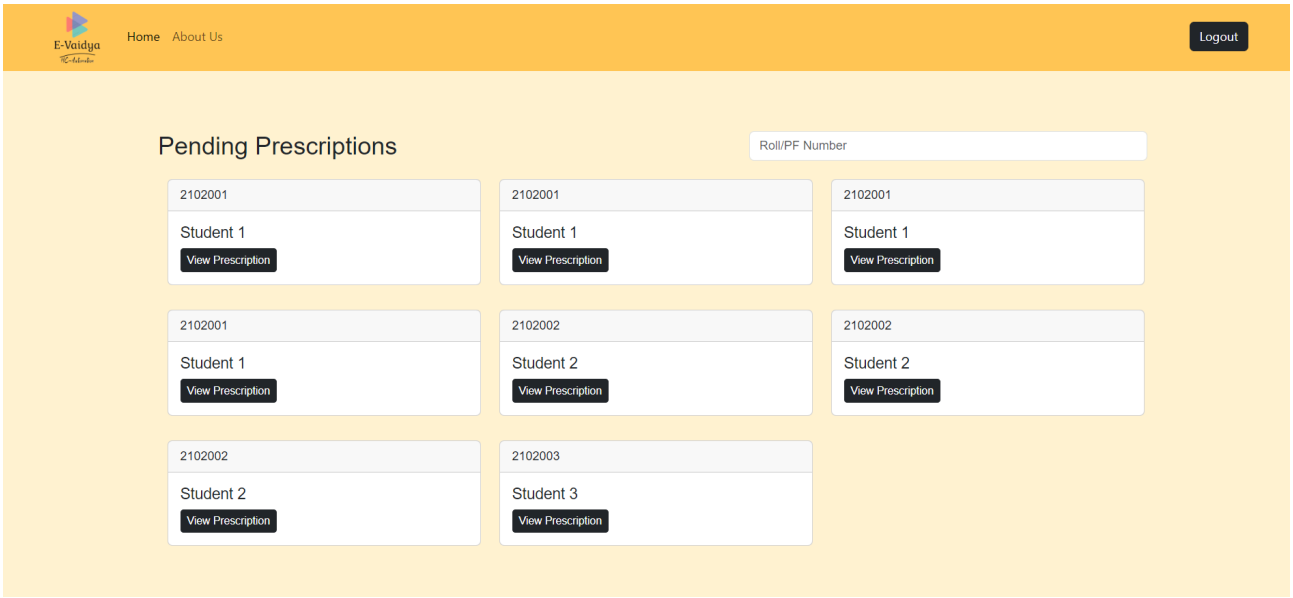
- For reference, the doctor can also view the patient's medical history by clicking the 'Medical History' button to view the past medications, previously diagnosed conditions, etc.

Finishing the Appointment

- After all prescriptions are done, the doctor must click on the 'Complete Appointment' button, following which this prescription will be added to the Patient's medical history.
- A copy of this prescription will be sent to the Pharmacy if medicines have been prescribed so that Pharmacy can dispense the medicines.

7 Pharmacy

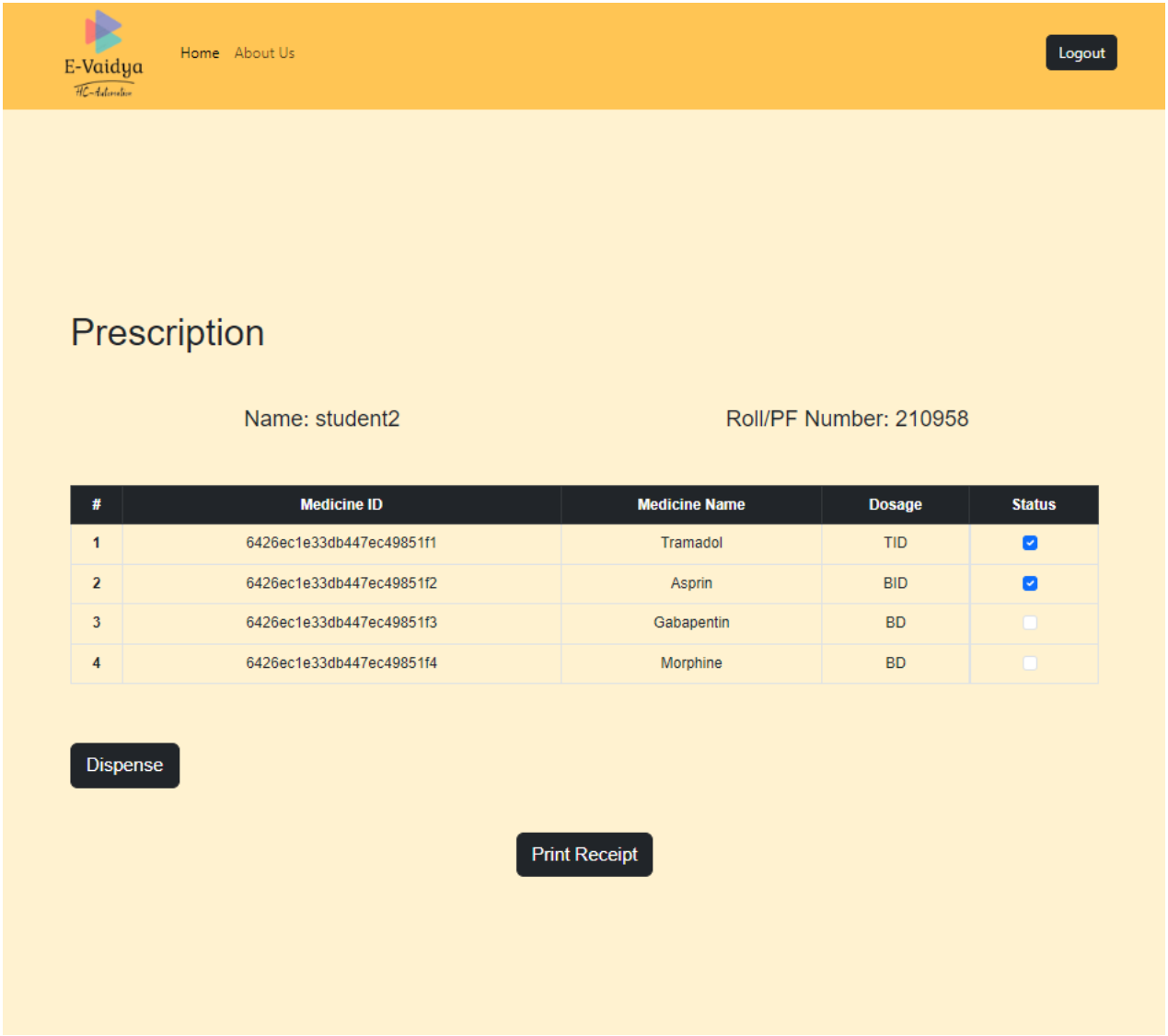
Pending Prescriptions



Following is the Home Page of the Pharmacy.

- To view prescriptions that are pending to be dispensed, click on “View Prescriptions.”
- You can enter Roll/PF no in the search bar to view prescription of a particular patient.

Patient's Prescriptions

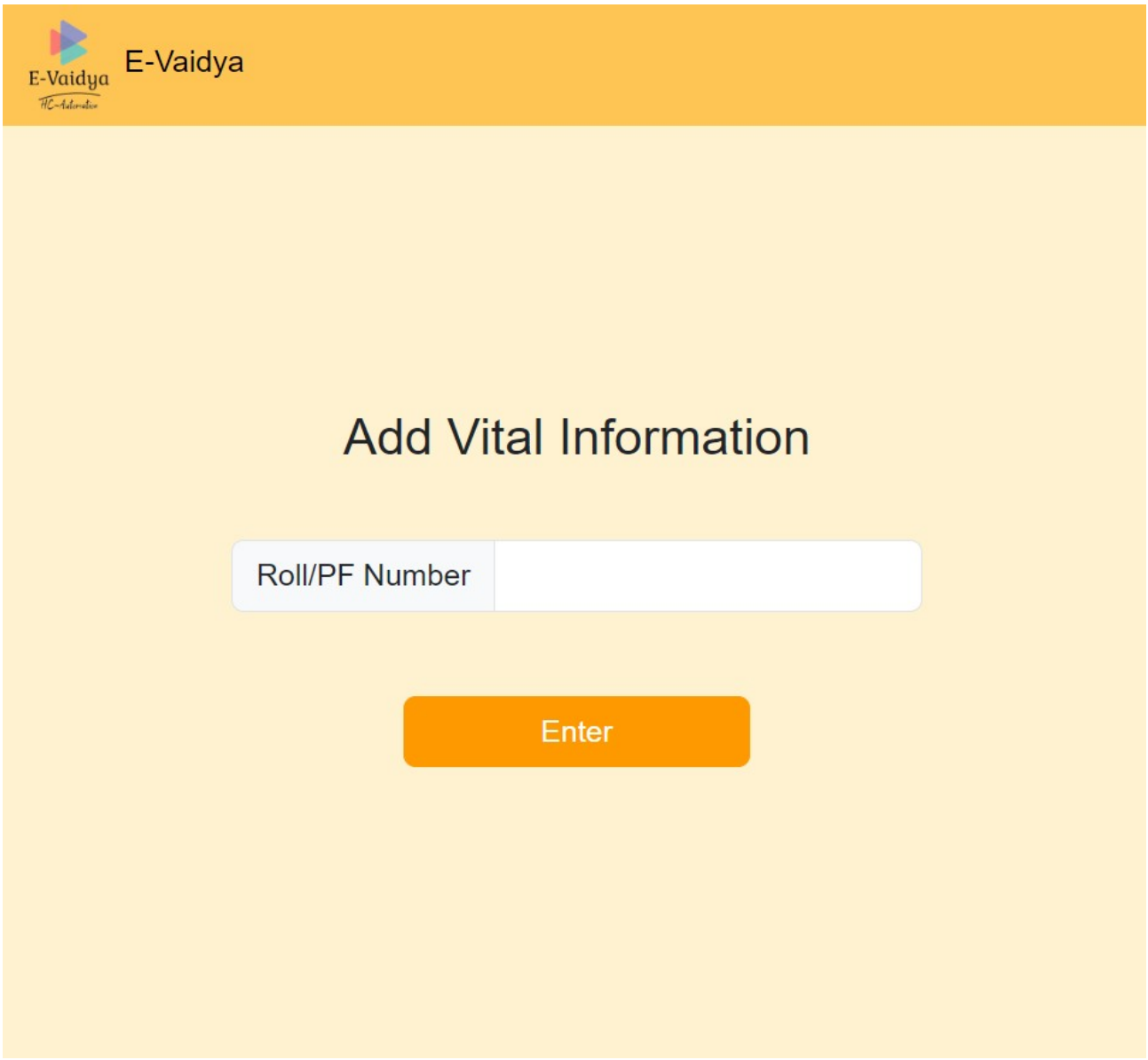


The following is the page to dispense medicines and keep track of medicines that the HC Pharmacy has given.

- Select the available medicines.
- For all the medicines the HC Pharmacy gave, click on the corresponding checkbox to tick it.
- After all selections are made, click on 'Dispense'; a list of unavailable (if the case arises) medicines will be printed using 'Print Receipt' button, which Students can get from an external Pharmacy.

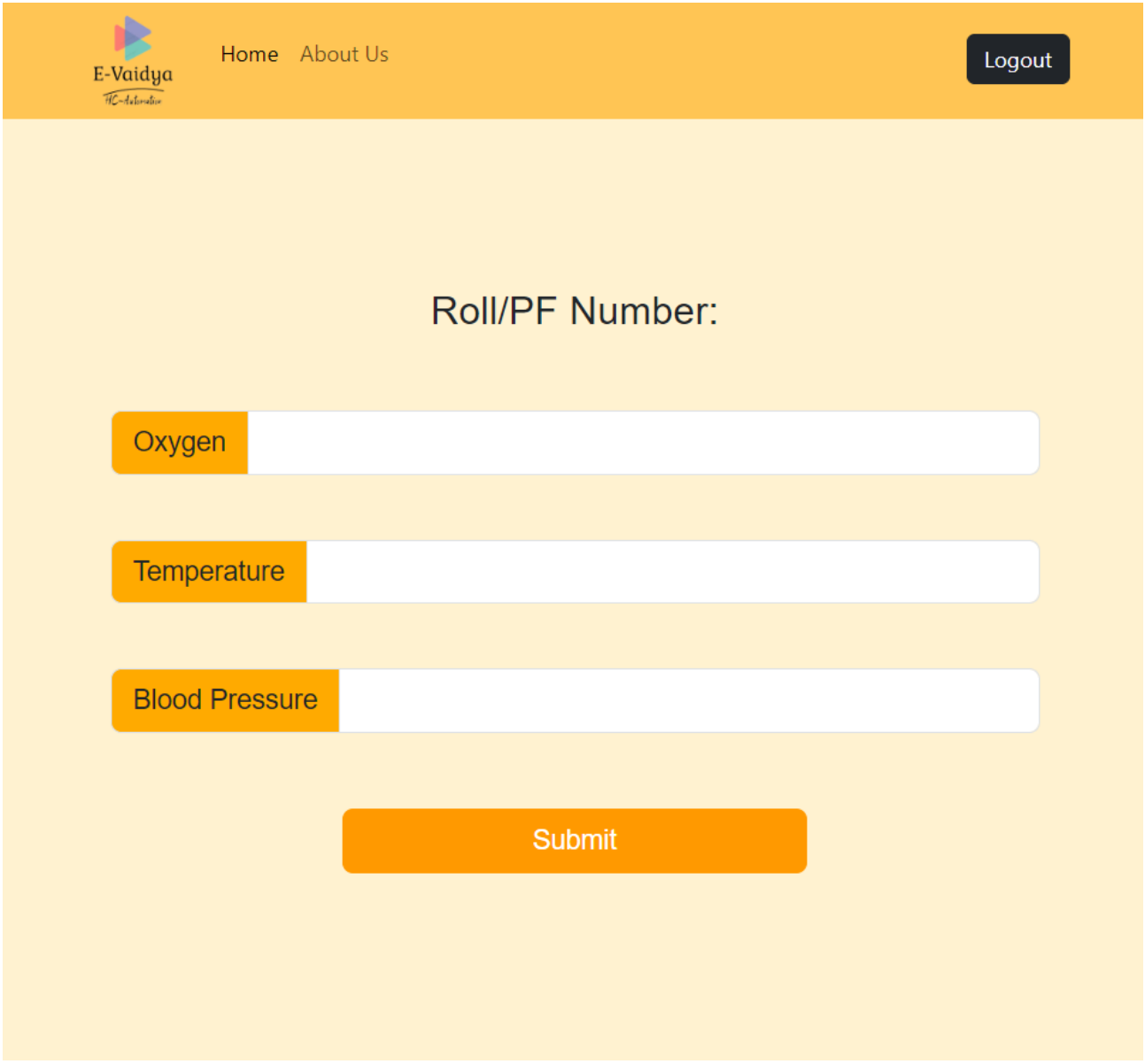
5 Nurse

Adding Patient Vitals



- Nurse enters the Roll/PF Number of the Patient to add his vitals.
- By clicking on “Enter,” the page to enter the vitals details opens.

Filling Patient Vitals



- Click on Submit to store the vitals.
- Enter the values of the Oxygen, Temperature, and Blood Pressure in the corresponding text boxes. Click on Submit to store the vitals.