
User Manual

for
E-Vaidya

Version 1.0

Prepared by

Group 12:

Aman	210104
Aniket Borkar	210135
Deven Gangwani	210327
Goutam Das	210394
Kartik Soni	210496
Narendra Singh	210649
Prashant Kumar	210750
Shrey Bansal	210997
Shubham Patel	210709
Swastik Singhal	211090

Group Name: Debuggers

aman21@iitk.ac.in
aniketsb21@iitk.ac.in
devenag21@iitk.ac.in
goutamd21@iitk.ac.in
kartiksoni21@iitk.ac.in
narendras21@iitk.ac.in
kprashant21@iitk.ac.in
shreyb21@iitk.ac.in
devang21@iitk.ac.in
sswastik21@iitk.ac.in

Course: CS253A

Mentor TA: *Anuj Shrivastava*

Date: 20/03/23

CONTENTS	2
REVISIONS	3
1 PURPOSE.....	4
2 AUDIENCE	5
3 REGISTER & LOGIN.....	6
• Register	
• Login	
4 STUDENT	8
• View Doctor's Schedule	
• Request Appointment	
• View Upcoming Appointment	
• View Medical History	
5 RECEPTIONIST.....	12
• Set Doctor's Schedule	
• View Appointment Requests	
• View Appointment Status	
• Upload Medical Reports	
6 DOCTOR.....	18
• View Schedule	
• Appointments	
○ Starting Appointment	
○ Prescribing Medicines	
○ Diagnosing Tests	
○ Viewing the Patient's Medical History	
7 PHARMACY	23
• View Completed Prescriptions	
8 NURSE	25
• Adding Patient Vitals	

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

IITK Campus community has to go through a primitive and traditional method of requesting appointment and for any other service at Health Centre IITK. 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 patient 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 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 a 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 centre of IIT Kanpur.

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

- User can book appointment with option of choosing 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 which makes it easy to maintain the daily functioning of health centre and avoiding any loss of data of 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 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 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



Register

Your Name

Your Email

Your Roll No

Your Blood Group

Please Select your Identity ▼

Your Password


Re-enter Password

Register

Already have an account? [Login](#)

- 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



Login

Enter your Email

Enter your Password

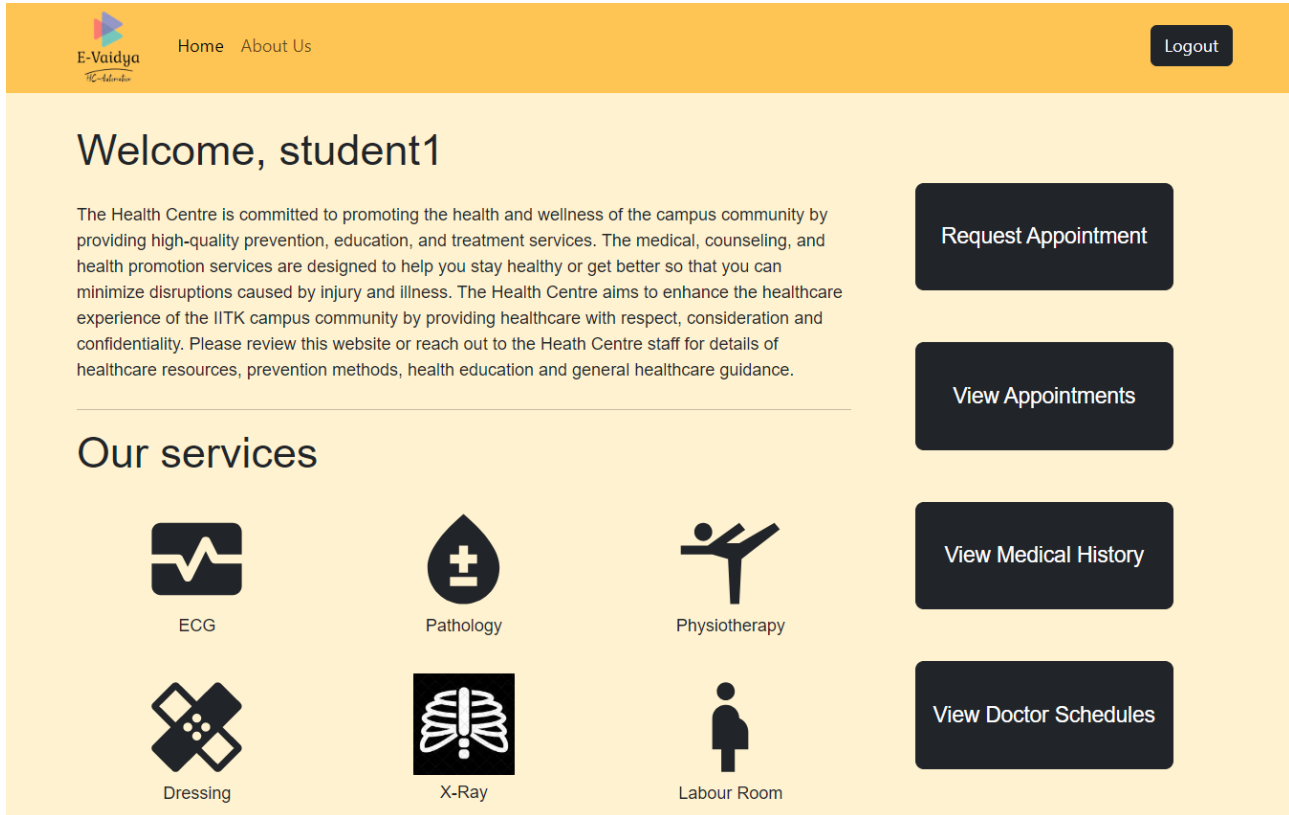
Login

Don't have an account? [Register](#)

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

4 Student

Home Page



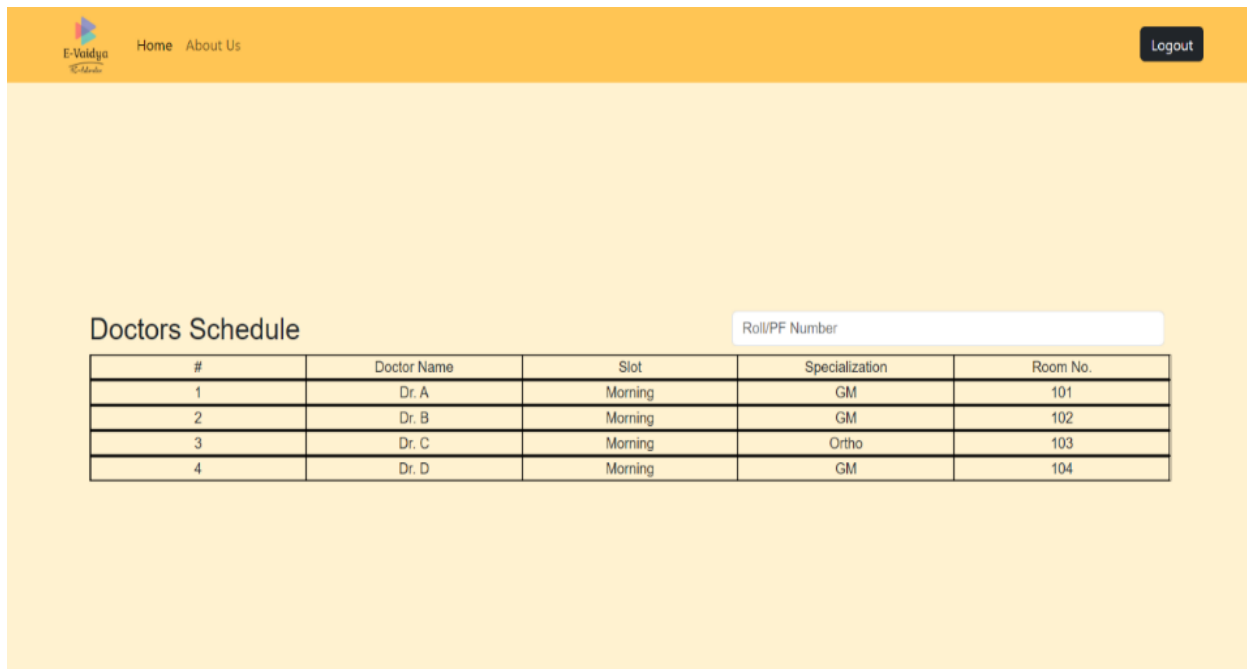
The screenshot shows the 'Home Page' of the E-Vaidya system for a student. The header is orange and contains the E-Vaidya logo, navigation links for 'Home' and 'About Us', and a 'Logout' button. The main content area has a light yellow background. It starts with a 'Welcome, student1' message, followed by a paragraph about the Health Centre's commitment to promoting health and wellness. Below this is a section titled 'Our services' which displays six icons representing different medical services: ECG, Pathology, Physiotherapy, Dressing, X-Ray, and Labour Room. To the right of these services are four dark blue buttons: 'Request Appointment', 'View Appointments', 'View Medical History', and 'View Doctor Schedules'.

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

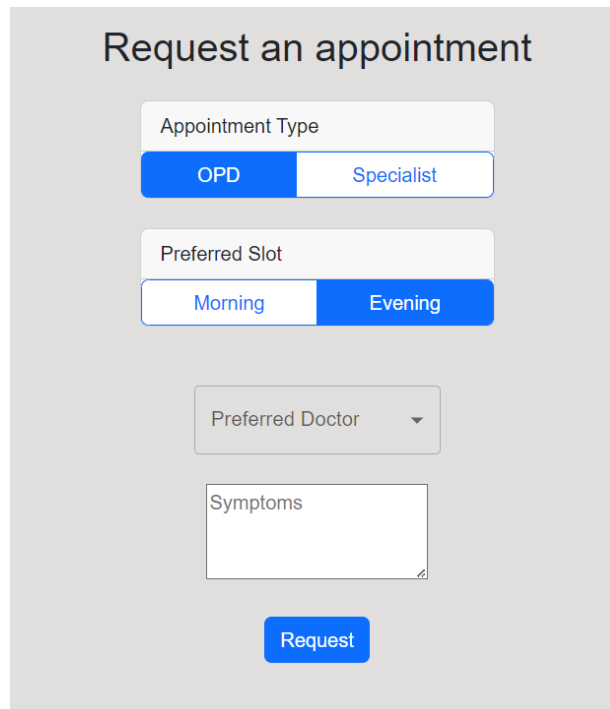


The screenshot shows a web application interface for viewing a doctor's schedule. At the top, there is a navigation bar with the E-Vaidya logo, links for 'Home' and 'About Us', and a 'Logout' button. Below the navigation bar, the main content area has a light yellow background. It features a section titled 'Doctors Schedule' on the left and a search input field labeled 'Roll/PF Number' on the right. Below the search field is a table with five columns: '#', 'Doctor Name', 'Slot', 'Specialization', and 'Room No.'. The table contains four rows of data.

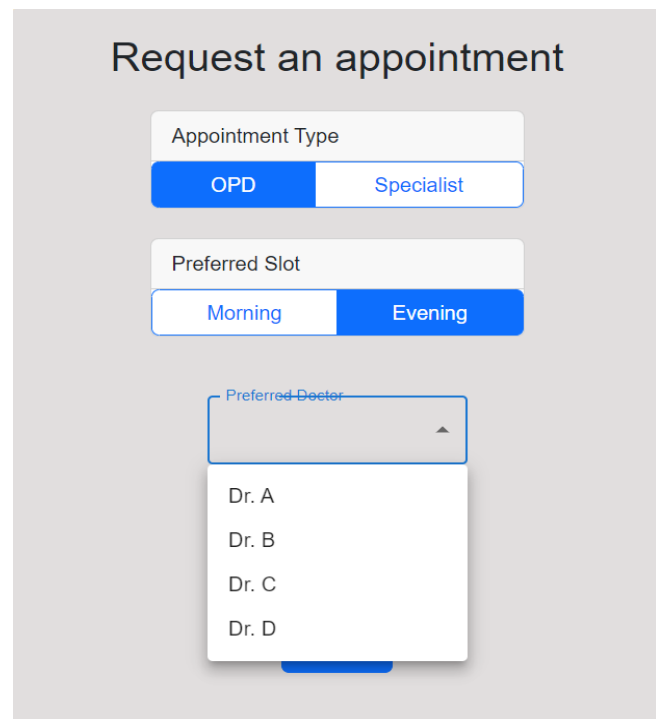
#	Doctor Name	Slot	Specialization	Room No.
1	Dr. A	Morning	GM	101
2	Dr. B	Morning	GM	102
3	Dr. C	Morning	Ortho	103
4	Dr. D	Morning	GM	104

- 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.

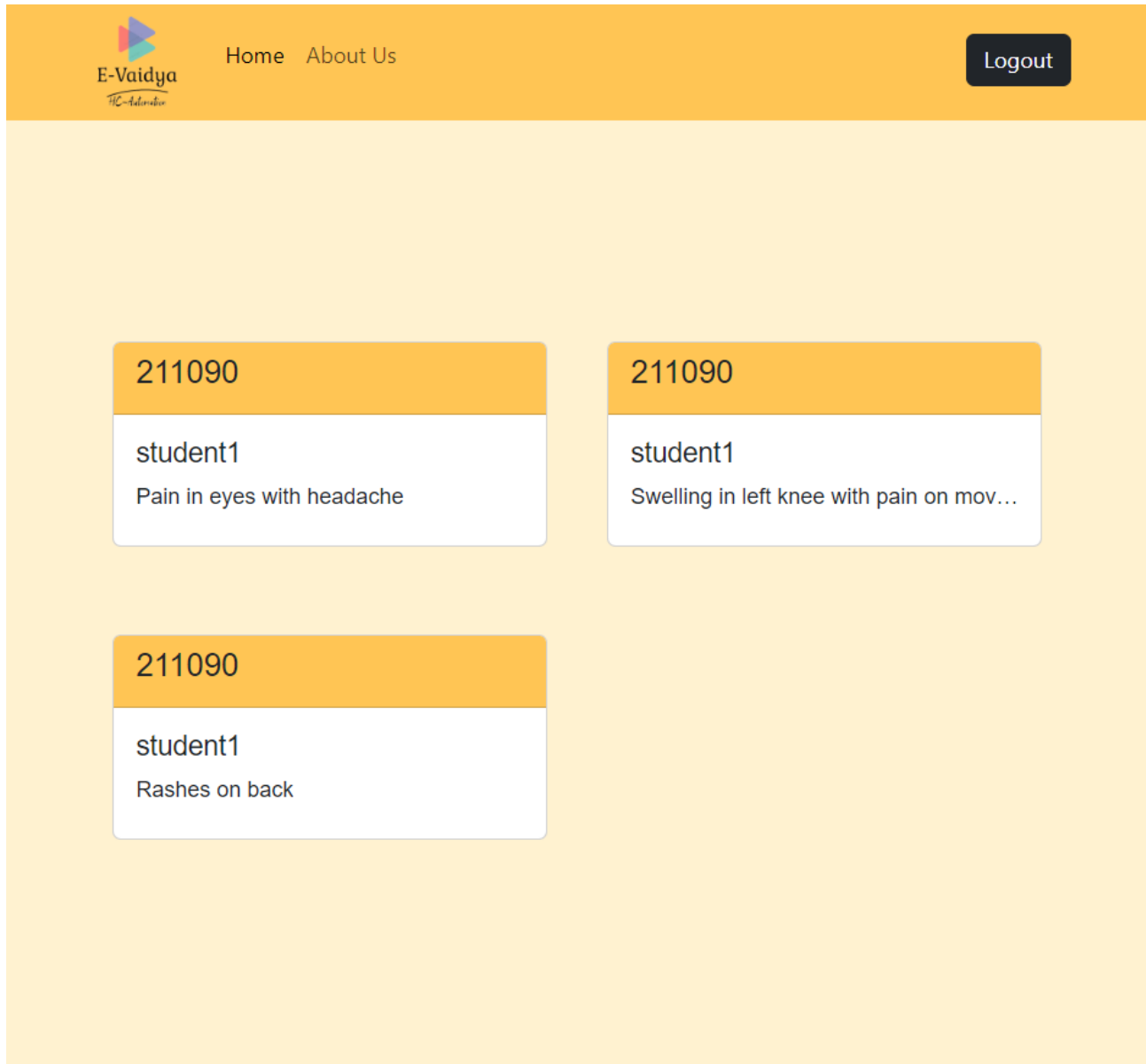
Request Appointment



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



The screenshot shows the 'View Upcoming Appointments' page. At the top, there is a navigation bar with the E-Vaidya logo, 'Home' and 'About Us' links, and a 'Logout' button. The main content area displays three appointment cards. Each card has an orange header with the ID '211090', a white body with the name 'student1', and a description of the appointment.

ID	Name	Description
211090	student1	Pain in eyes with headache
211090	student1	Swelling in left knee with pain on mov...
211090	student1	Rashes on back

- 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 screenshot shows a web application interface for viewing medical history. The header is orange and contains the E-Vaidya logo, navigation links 'Home' and 'About Us', and a 'Logout' button. The main content area has a light yellow background and displays two scrollable boxes. The first box shows a timestamp '2023-03-31T14:10:47.952Z' followed by a list of medications: Aspirin 3 BID, Naproxen 3 BBF, and Morphine 3 BD. The second box shows a timestamp '2023-03-31T14:20:14.599Z' followed by a list of medications: Tramadol 3 TID and Aspirin 3 BBF.

Timestamp	Medication	Dosage	Frequency
2023-03-31T14:10:47.952Z	Aspirin	3	BID
2023-03-31T14:10:47.952Z	Naproxen	3	BBF
2023-03-31T14:10:47.952Z	Morphine	3	BD
2023-03-31T14:20:14.599Z	Tramadol	3	TID
2023-03-31T14:20:14.599Z	Aspirin	3	BBF

- 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)

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



E-Vaidya

Doctor Allotment for the day

Doctor Name

Doctor specialization

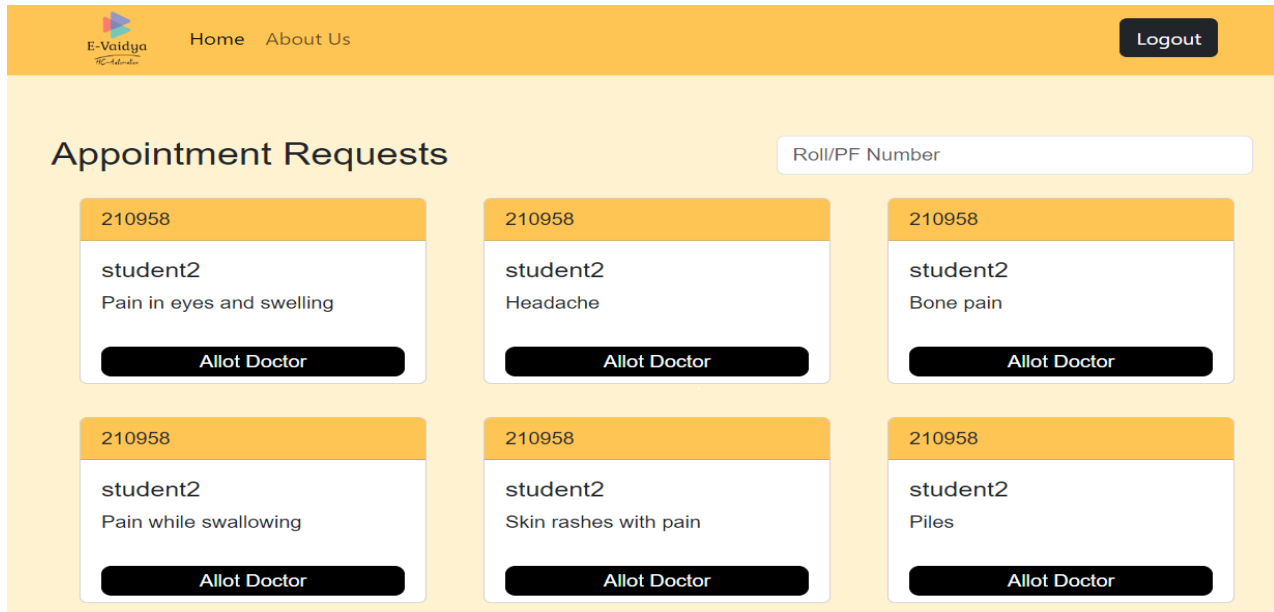
Room No.

Current Doctors

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

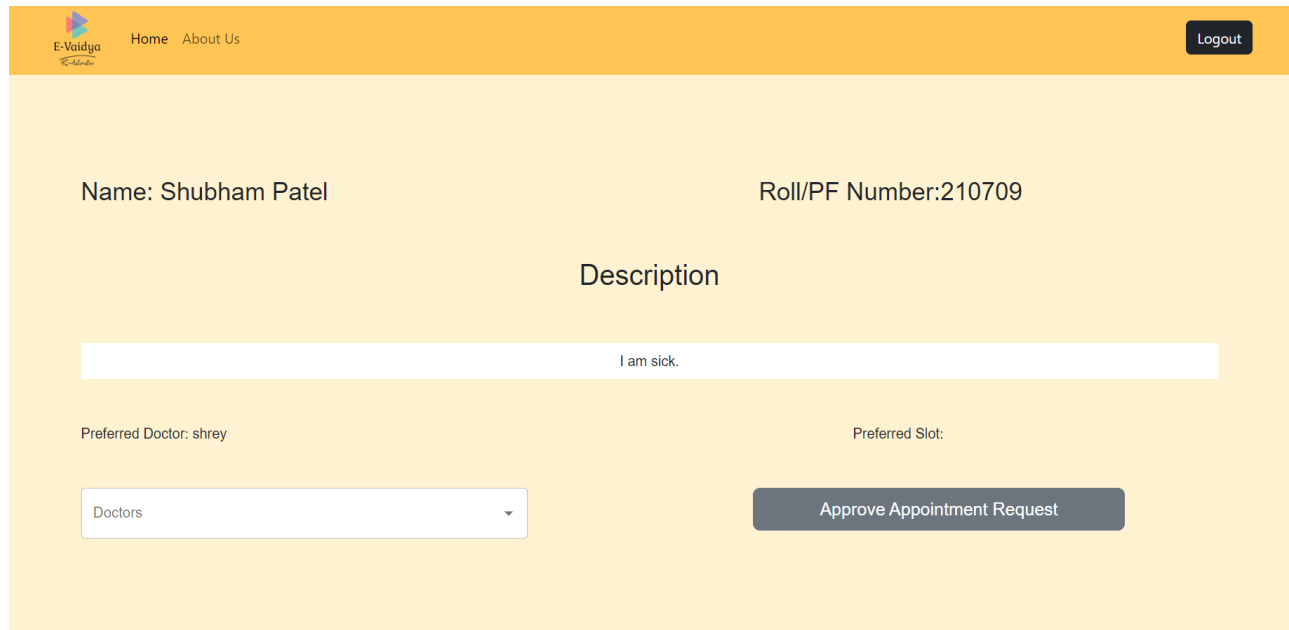


Appointment Requests

Roll/PF Number

210958 student2 Pain in eyes and swelling Allot Doctor	210958 student2 Headache Allot Doctor	210958 student2 Bone pain Allot Doctor
210958 student2 Pain while swallowing Allot Doctor	210958 student2 Skin rashes with pain Allot Doctor	210958 student2 Piles Allot Doctor

- 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”.



Name: Shubham Patel

Roll/PF Number: 210709

Description

I am sick.

Preferred Doctor: shrey

Preferred Slot:

Doctors

Approve Appointment Request

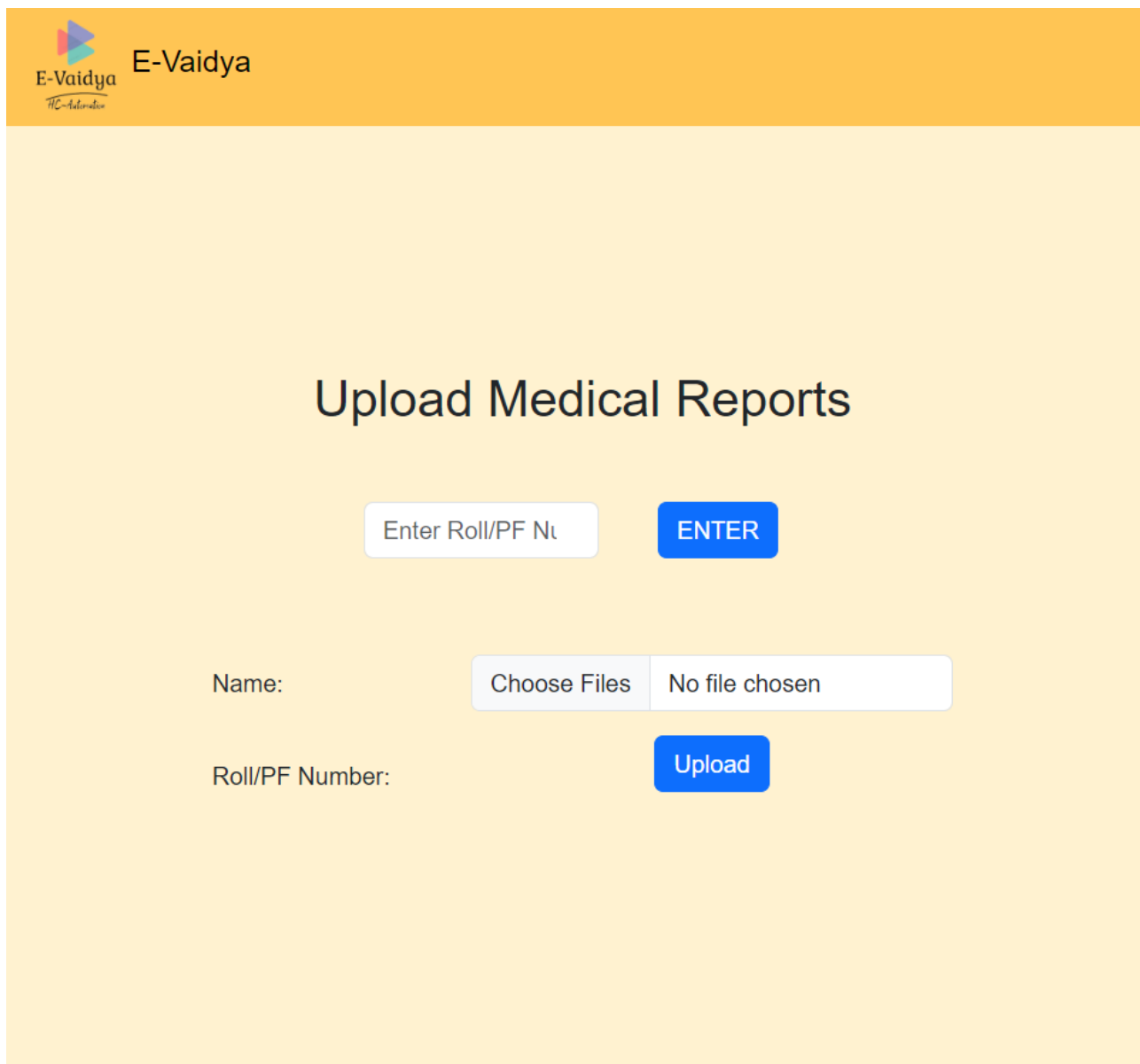
- Select the Doctor who must be assigned, keeping in mind the availability of doctors and the preferred Doctor of the Student.

View Appointment Status

210958 student2 Headache	210958 student2 Bone pain	210958 student2 Pain while swallowing
210958 student2 Skin rashes with pain	210958 student2 Piles	

- 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



E-Vaidya

Upload Medical Reports

Enter Roll/PF No.

Name: No file chosen

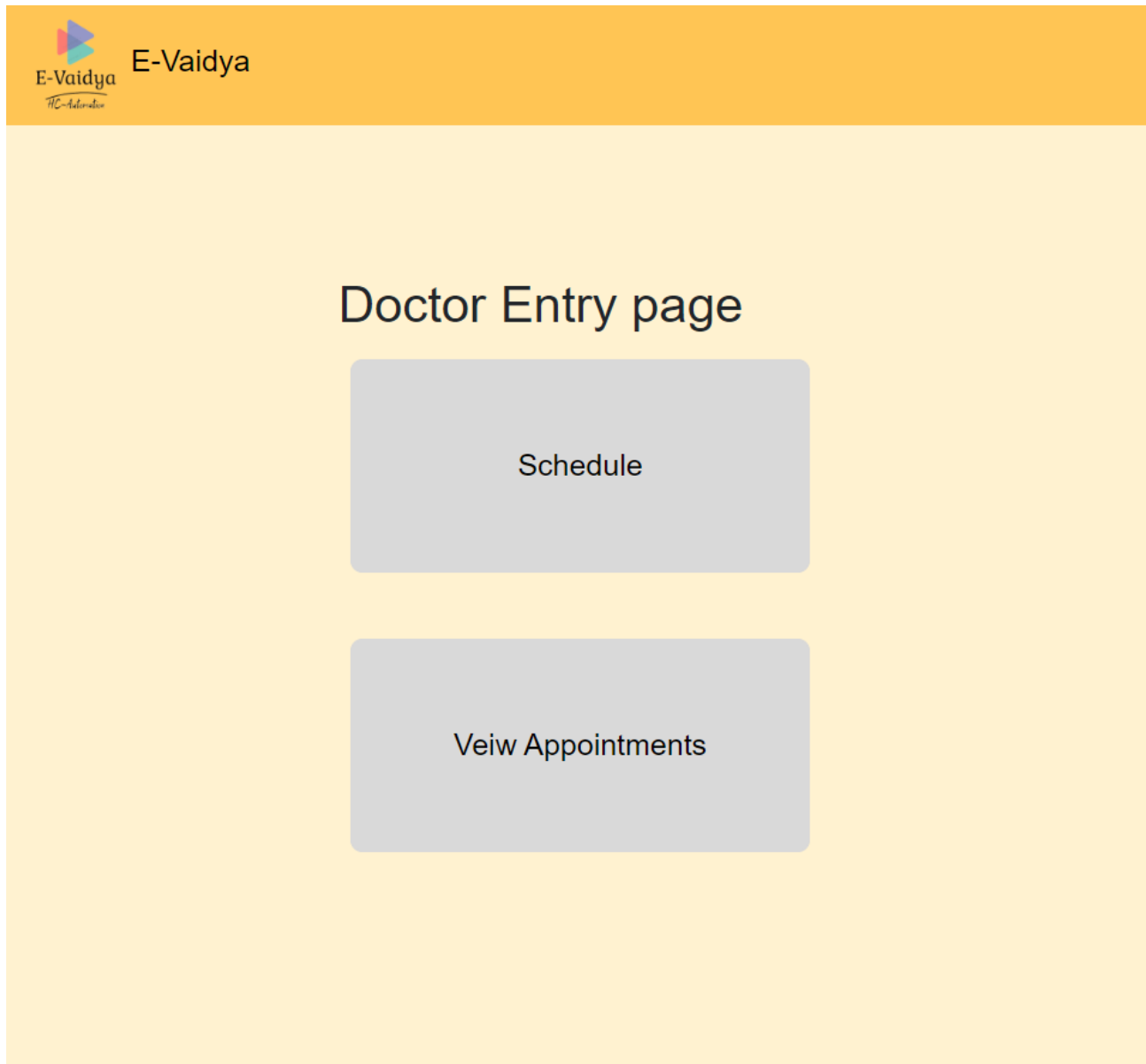
Roll/PF Number:

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

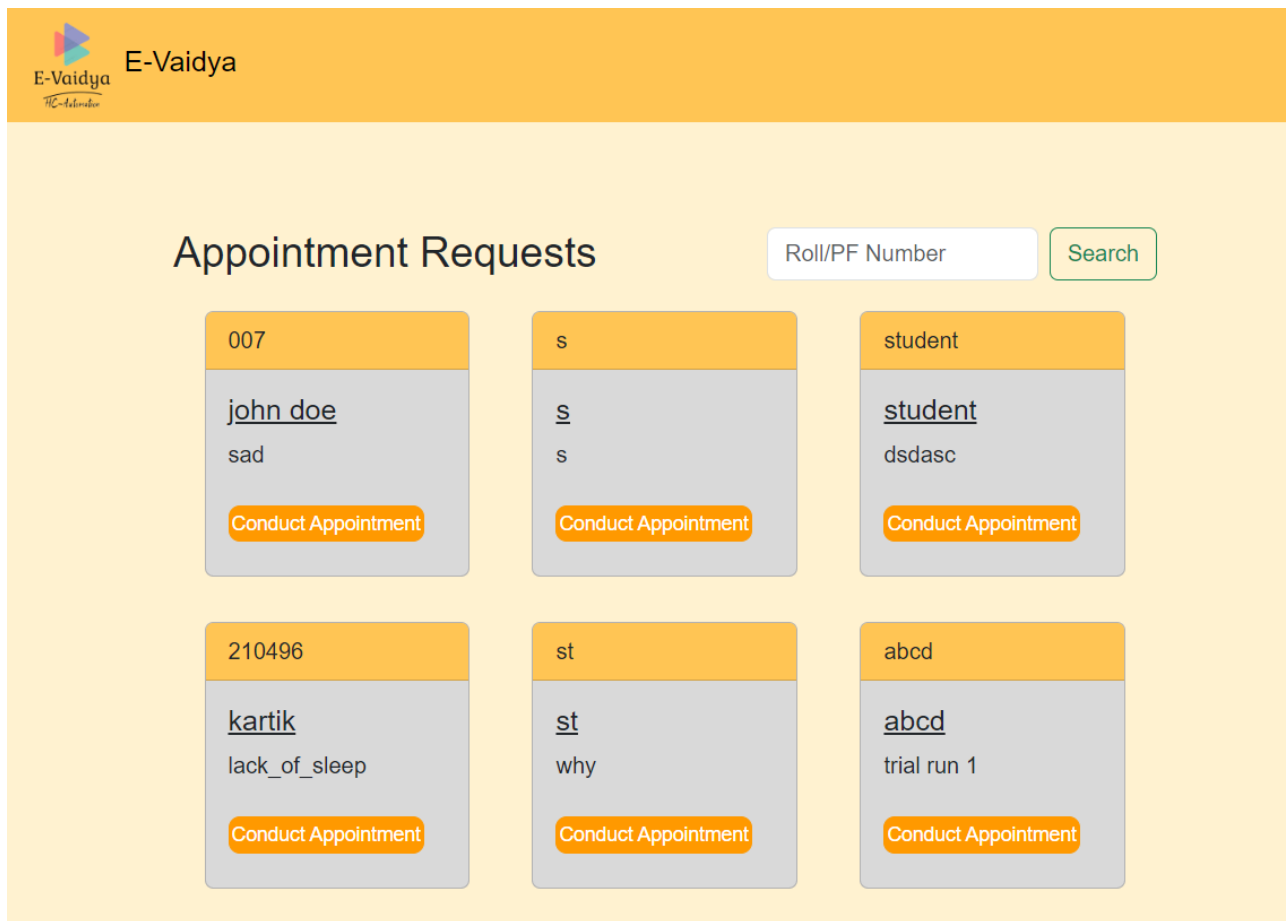


Home page of the Doctor.

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

Appointments

Starting Appointment



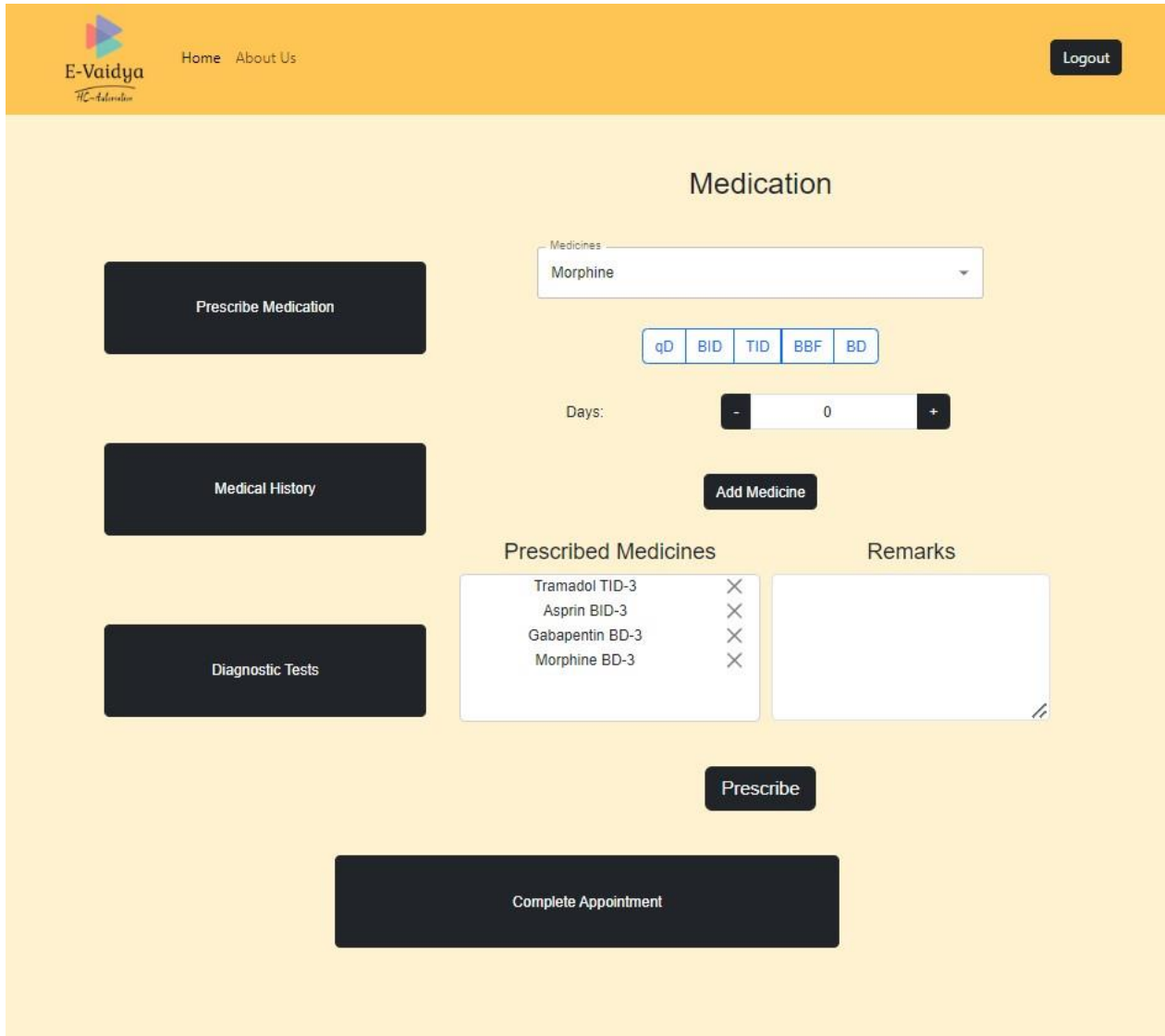
The screenshot shows the E-Vaidya interface for starting an appointment. At the top left is the E-Vaidya logo. The main heading is "Appointment Requests". To the right of the heading is a search bar labeled "Roll/PF Number" with a "Search" button. Below the heading, there are six appointment cards arranged in a 2x3 grid. Each card has an orange header with a Roll/PF Number, a grey body with a name and a description, and an orange "Conduct Appointment" button at the bottom.

Roll/PF Number	Name	Description	Action
007	john doe	sad	Conduct Appointment
s	s	s	Conduct Appointment
student	student	dsdasc	Conduct Appointment
210496	kartik	lack_of_sleep	Conduct Appointment
st	st	why	Conduct Appointment
abcd	abcd	trial run 1	Conduct 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

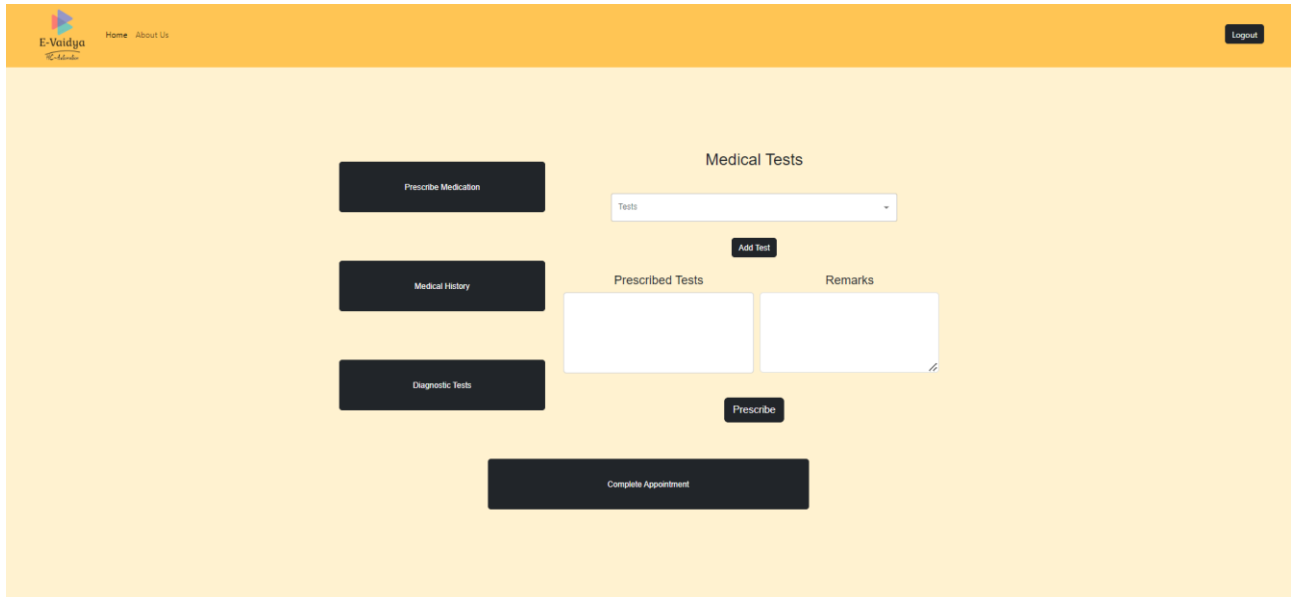
Prescribing Medicines



The screenshot displays the 'Medication' section of the E-Vaidya application. On the left, there are three dark blue buttons: 'Prescribe Medication', 'Medical History', and 'Diagnostic Tests'. The main area contains a 'Medicines' dropdown menu with 'Morphine' selected. Below this are five frequency buttons: 'qD', 'BID', 'TID', 'BBF', and 'BD'. A 'Days' field with a minus sign, the number '0', and a plus sign is present. An 'Add Medicine' button is located below the frequency buttons. To the right, there are two columns: 'Prescribed Medicines' and 'Remarks'. The 'Prescribed Medicines' column lists 'Tramadol TID-3', 'Asprin BID-3', 'Gabapentin BD-3', and 'Morphine BD-3', each with a delete 'X' icon. The 'Remarks' column is empty. A 'Prescribe' button is positioned below the 'Prescribed Medicines' column. At the bottom center, there is a large dark blue button labeled 'Complete Appointment'.

- 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.

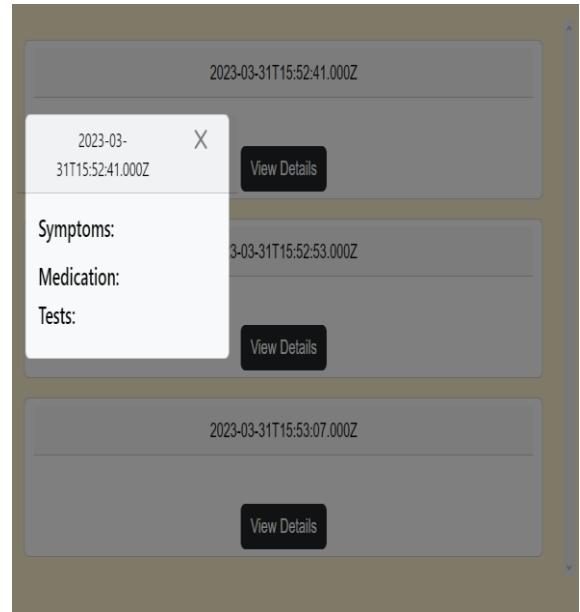
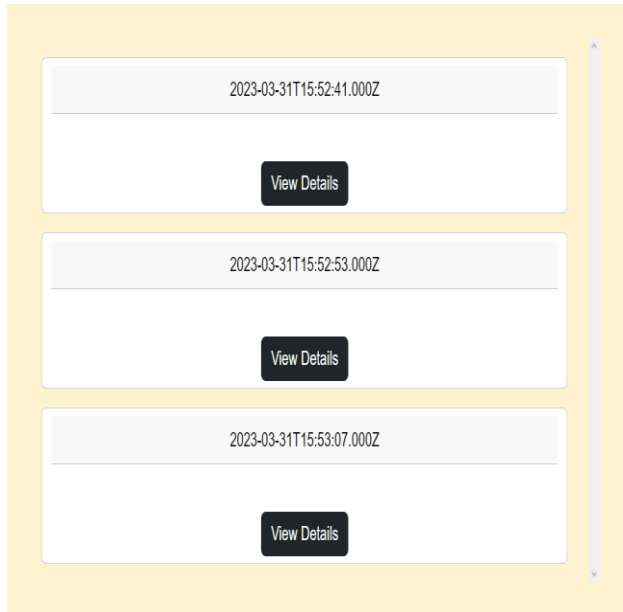
Diagnosing Tests



The screenshot displays the 'Medical Tests' section of the E-Vaidya application. On the left, a vertical sidebar contains three buttons: 'Prescribe Medication', 'Medical History', and 'Diagnostic Tests'. The main content area is titled 'Medical Tests' and features a dropdown menu labeled 'Tests'. Below this menu is an 'Add Test' button. The interface is divided into two columns: 'Prescribed Tests' and 'Remarks'. The 'Prescribed Tests' column contains a large, empty white box. The 'Remarks' column contains a smaller, empty white box. A 'Prescribe' button is located below the 'Prescribed Tests' box. At the bottom center of the main area is a 'Complete Appointment' button. The top of the application has a yellow header bar with the E-Vaidya logo, navigation links for 'Home' and 'About Us', and a 'Logout' button in the top right corner.

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

Viewing Patient's Medical History



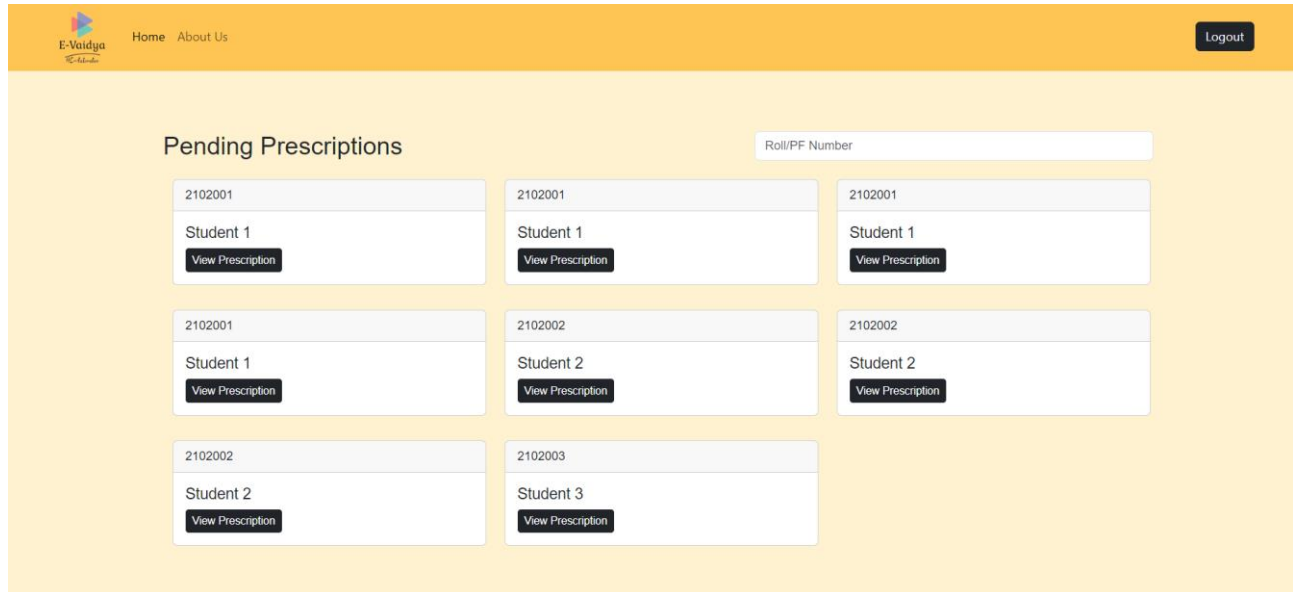
- For reference, the doctor can also view the patient's medical history by clicking the 'Medical History' button to view the past medications, previously diagnosed conditions, etc.

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




The screenshot shows the 'Pending Prescriptions' page of the E-Vaidya Pharmacy system. The page has a yellow header bar with the E-Vaidya logo, 'Home' and 'About Us' links, and a 'Logout' button. Below the header, the page title 'Pending Prescriptions' is displayed on the left, and a search bar labeled 'Roll/PF Number' is on the right. The main content area contains a grid of prescription cards. Each card displays a Roll/PF Number, the patient's name, and a 'View Prescription' button. The cards are arranged in three rows: the first row has three cards for 'Student 1' with Roll/PF Number 2102001; the second row has three cards for 'Student 1' (2102001), 'Student 2' (2102002), and 'Student 2' (2102002); the third row has two cards for 'Student 2' (2102002) and 'Student 3' (2102003).

Roll/PF Number	Patient Name	Action
2102001	Student 1	View Prescription
2102001	Student 1	View Prescription
2102001	Student 1	View Prescription
2102001	Student 1	View Prescription
2102002	Student 2	View Prescription
2102002	Student 2	View Prescription
2102002	Student 2	View Prescription
2102002	Student 2	View Prescription
2102003	Student 3	View Prescription

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


[Home](#) [About Us](#)
Logout

Prescription

Name: student2 Roll/PF Number: 210958

#	Medicine ID	Medicine Name	Dosage	Status
1	6426ec1e33db447ec49851f1	Tramadol	TID	<input checked="" type="checkbox"/>
2	6426ec1e33db447ec49851f2	Asprin	BID	<input checked="" type="checkbox"/>
3	6426ec1e33db447ec49851f3	Gabapentin	BD	<input type="checkbox"/>
4	6426ec1e33db447ec49851f4	Morphine	BD	<input type="checkbox"/>

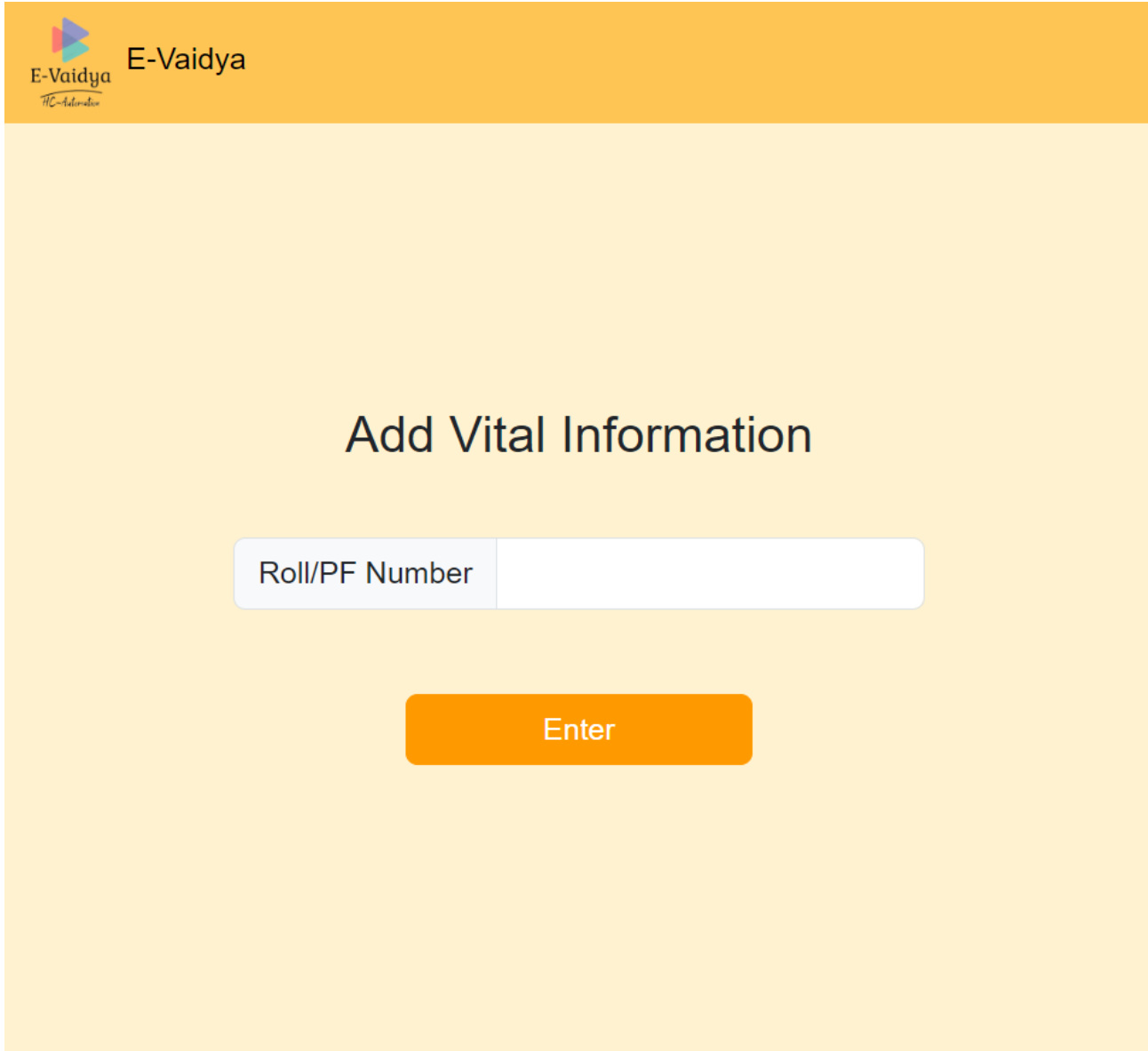
Dispense
Print Receipt

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

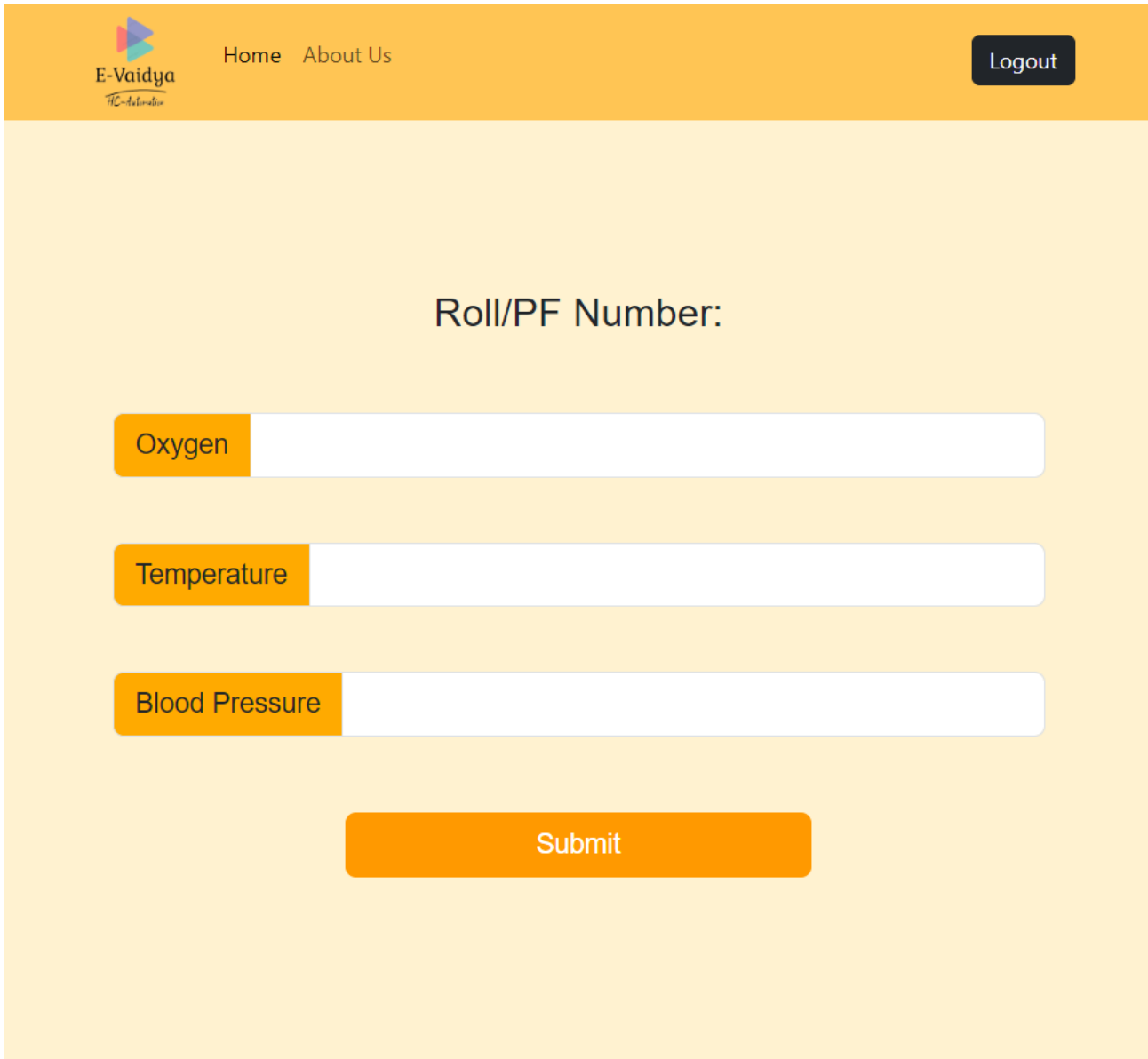
Adding Patient Vitals



The screenshot shows a web interface with a yellow header bar. In the top left of the header is the E-Vaidya logo and text. The main content area has a light yellow background. Centered in this area is the title 'Add Vital Information'. Below the title is a form with a label 'Roll/PF Number' and a text input field. Below the input field is an orange button labeled 'Enter'.

- 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



The screenshot shows a web application interface for filling patient vitals. At the top, there is a navigation bar with the E-Vaidya logo, links for 'Home' and 'About Us', and a 'Logout' button. The main content area has a light yellow background. It starts with the label 'Roll/PF Number:' followed by a text input field. Below this, there are three rows of input fields for 'Oxygen', 'Temperature', and 'Blood Pressure'. Each row consists of a label in an orange box and a white text input field. At the bottom of the form is a large orange 'Submit' button.

- 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.