HAD Final Milestone

(Team 17)

Project 2: Tele-Consultation Platform

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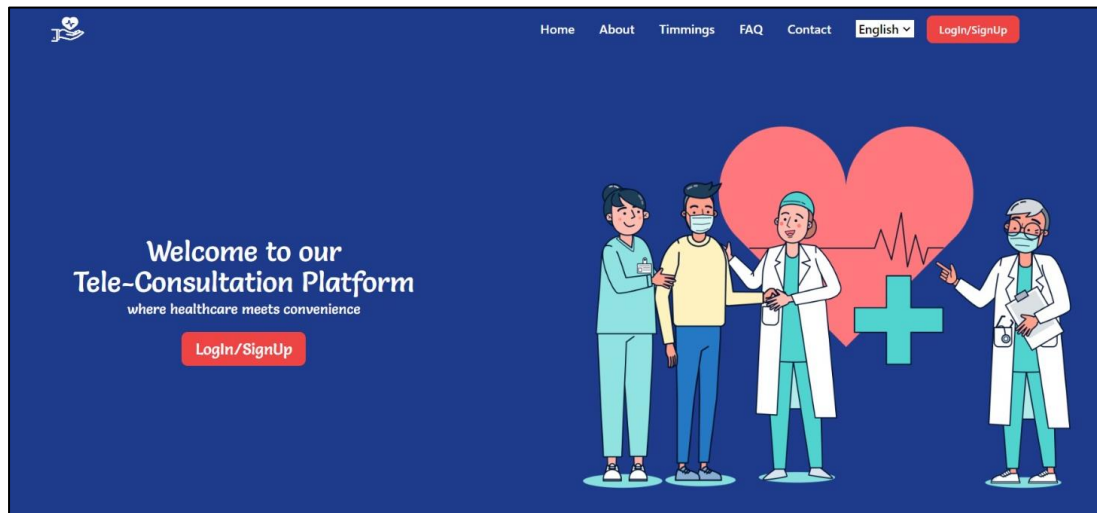5. Individual Contributions

Team Members:

- ✓ Akanksha Shukla (MT2022008)
- ✓ Ayush Agrawal (MT2022027)
- ✓ Vikranth Bari (MT2022131)
- ✓ Yaman Goyal (MT2022134)
- ✓ Nallamothu Srijan kumar (IMT2019524)

Links:

- ✓ **Project Demo**
- ✓ **Backend**
- ✓ **Frontend**

What is E-Aarogya?

✓ E-Aarogya is a tele-consultation platform. It uses IT to facilitate communications between a patient and a doctor who are otherwise geographically separated. Most of the hospitals are located in urban areas so people have to travel long distance for consultation which in turn cost them more than the consultation fees. Our platform will provide user, remote access for consultation and saves their time and travelling cost. User can connect with the doctor at any time from any place.

Functionalities and Features of E-Aarogya:

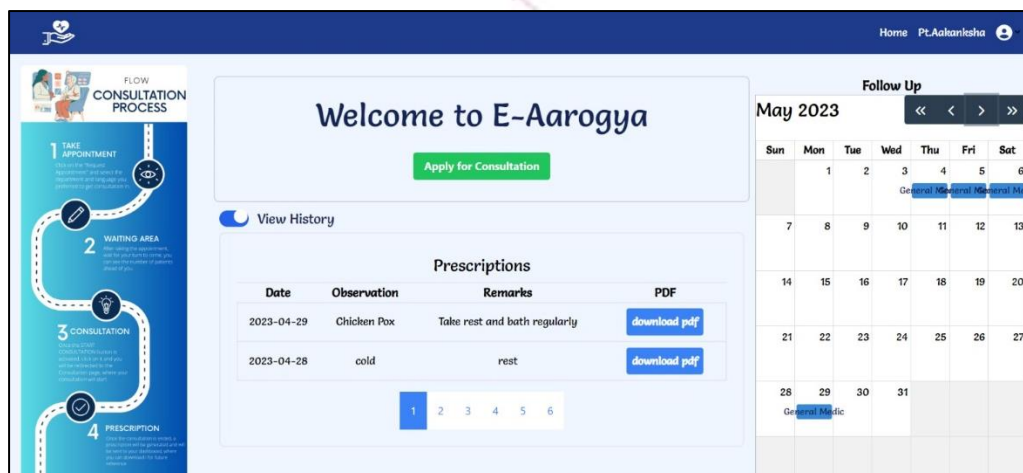✓ **Patient's Functionalities:**

Fig: Patient's Dashboard

➢ **Request Consultation:** A patient can request for consultation in the department he/she wishes for and also in their preferred language.

➢ **Follow-ups:** Patient will be able to see the upcoming follow-ups setup by doctor of a particular department, these follow-ups will be marked on the calendar which is on the right part of the patient's dashboard.

➢ **Add follow-ups to google calendar:** Once you click on any of the follow-up, a pop-up will open and you can see for which department the follow-up is issued for and you can add it to google calendar for future reminders.

➢ **Prescription Records:** Patient will be able to see all his previous prescriptions of E-Aarogya on the dashboard itself, also he will be able to download those e-prescription.
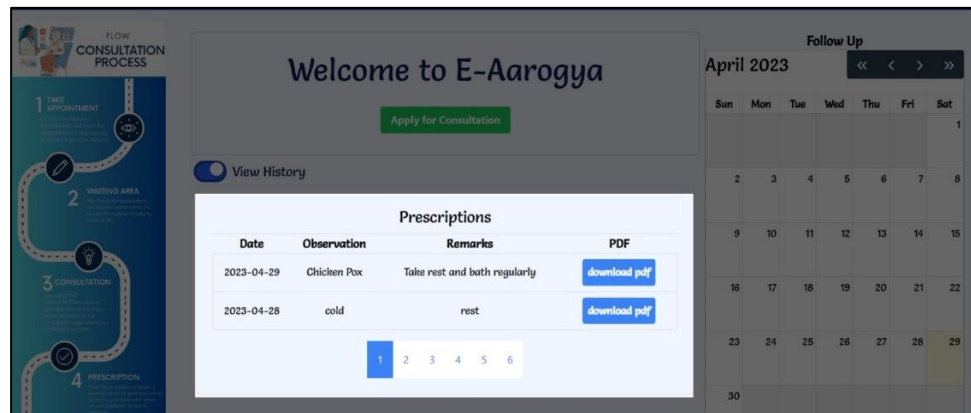
➢ **Download e-prescription:** Patient will be able to download e-prescription by clicking on the download button.

➢ **Video Consultation:** Doctor and patient will be able to do video consultation.

➢ **Upload Health Records:** Patient will be able to upload health record other than that of E-Aarogya prescriptions during videocall

itself and in real-time the doctor will be able to see them.
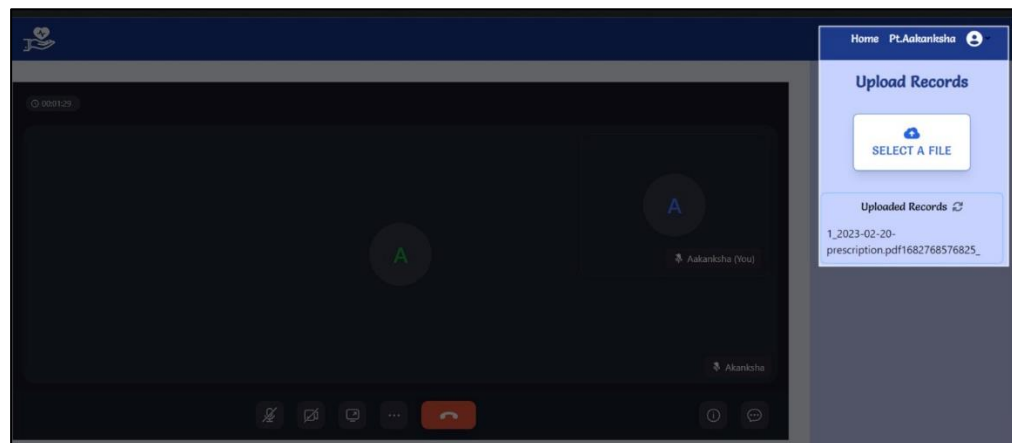
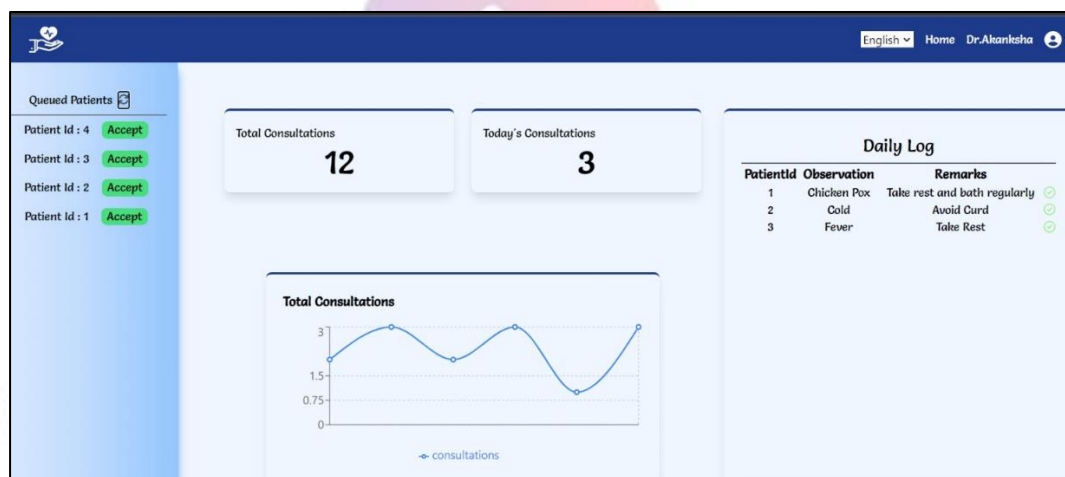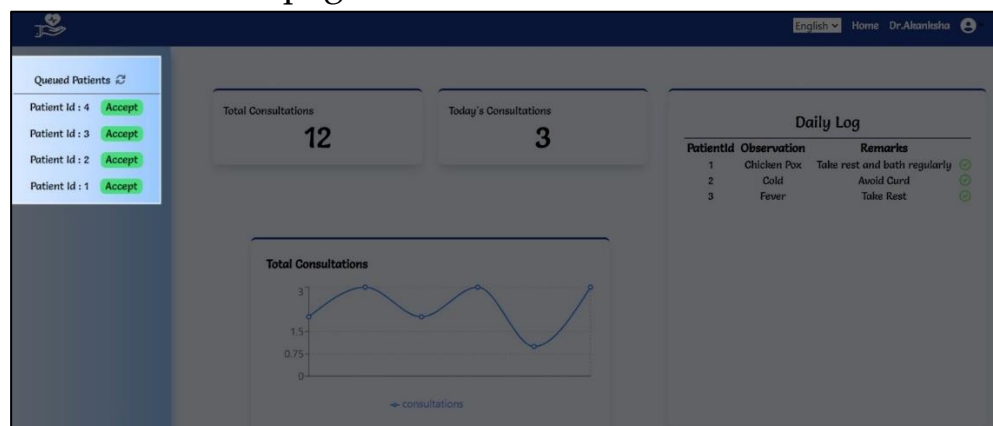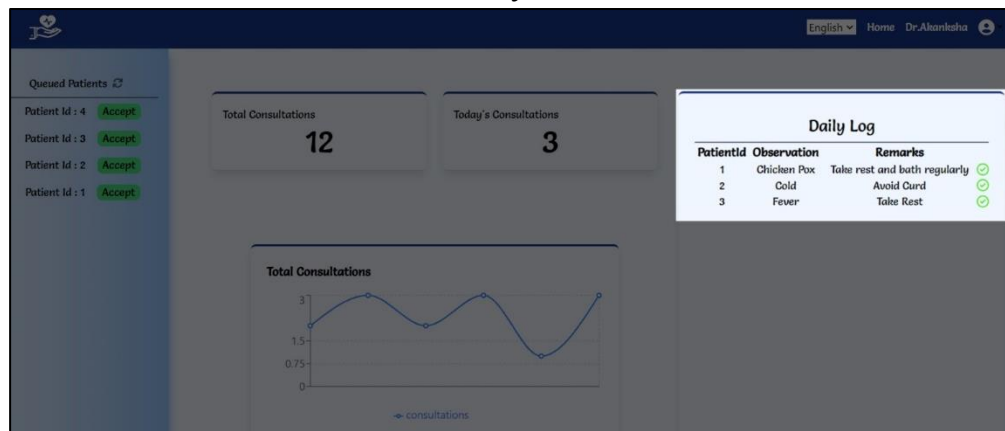## ✓ Doctor's Functionalities:

Fig: Doctor's Dashboard

➢ **Accepting Patient from Queue:** Doctor will accept the
request of patient from the queue, and will be redirected to
the consultation page.

➢ **Daily logs:** Doctor will be able to see all the consultations he/she had done on current day.

➢ **Add Prescription:** On the consultation page, there are two components, the first one is the adding prescription for the patient he/she is consulting, and the other one is the video call section.

➢ **View patient's previous prescriptions:** Doctor can request the patient to see his/her previous prescriptions by sending the otp on the patient's registered phone number, once the patient tells the otp, doctor will get access to the prescriptions.
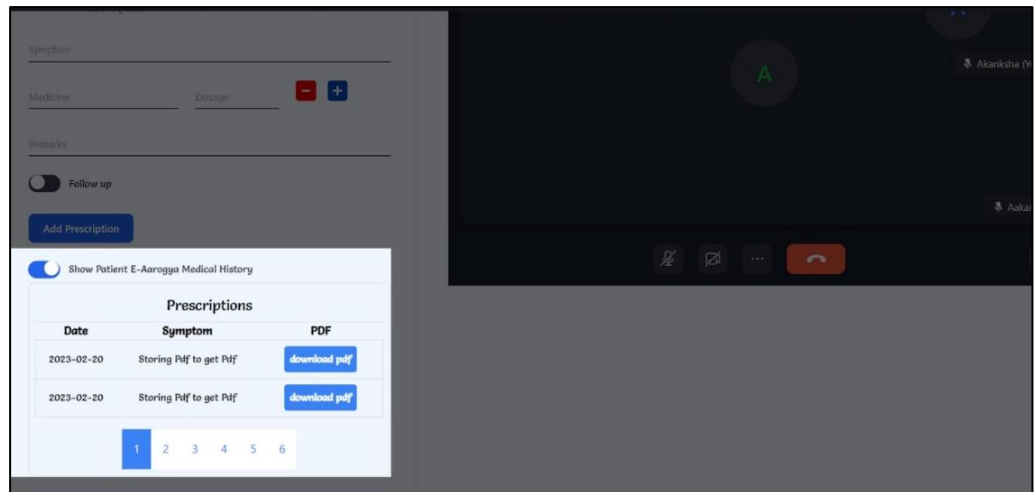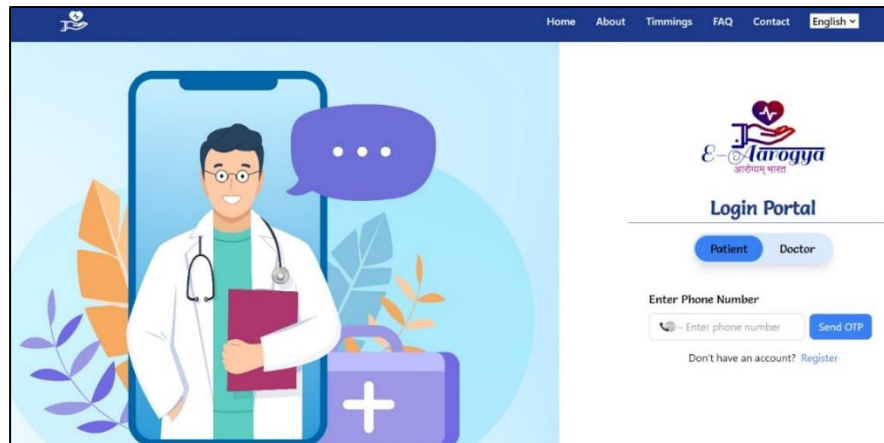
➢ **View uploaded health records:** Doctor will able to see the uploaded health records by the patient.
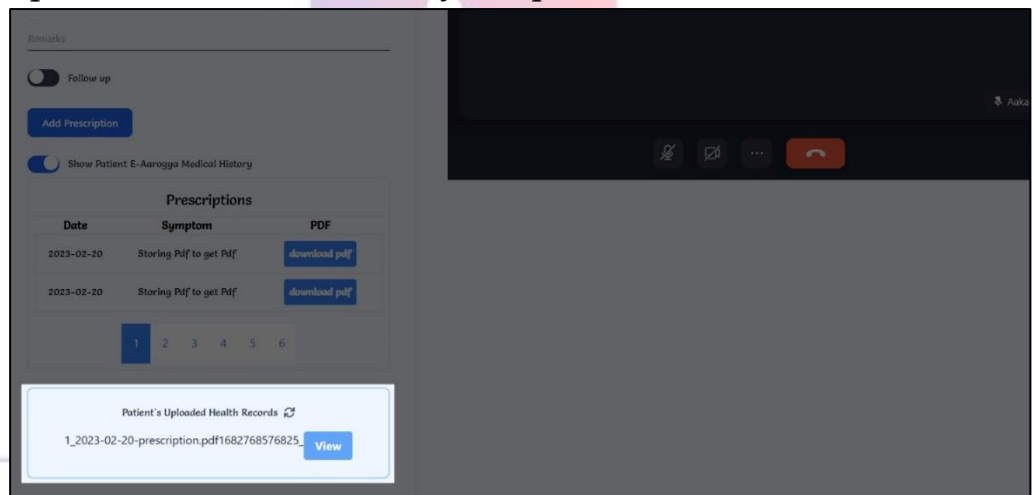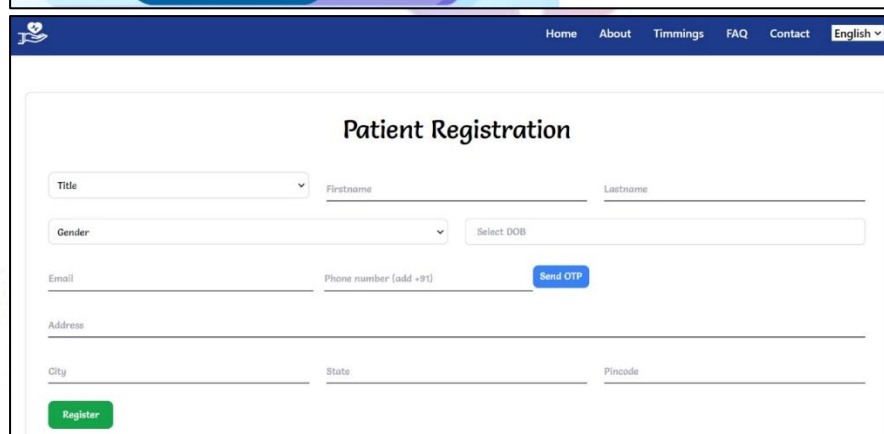
E-Aarogya patient's guide:

- ✓ **Login/Register:** On the home page, click on the Login/Signup button and you will be redirected to the login page. If you are already signed up on the website, then you are ready to login, otherwise please sign-up.
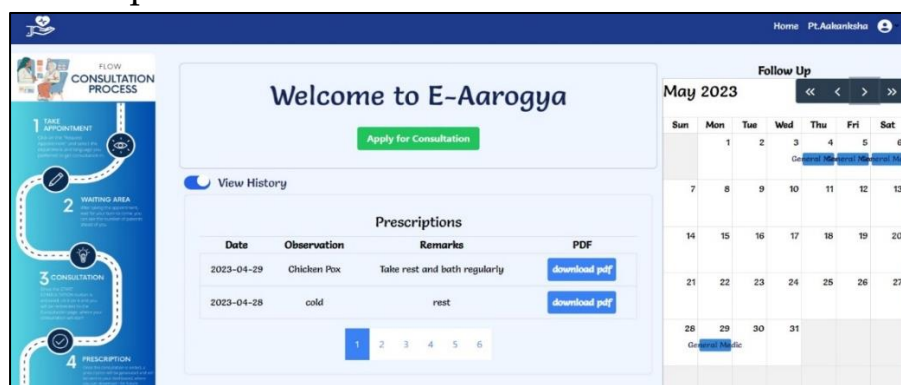

- ✓ **Patient Dashboard:** Once you logged in to your account, you'll see the patient's dashboard.

✓ **Previous Prescriptions:** Here you'll see all your previous prescriptions you got on the E-Aarogya site. You can also download this e-prescription.
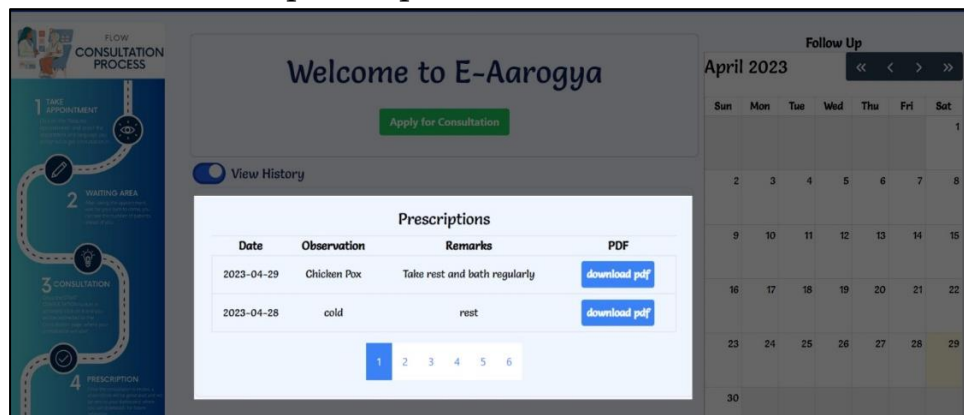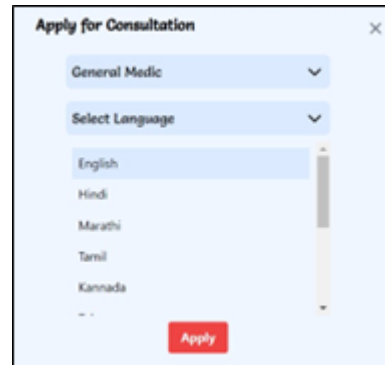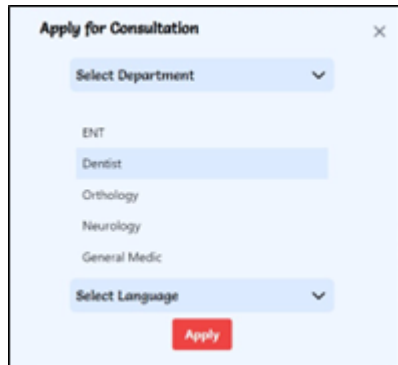

✓ **Follow-ups:** On the right side of the screen, you can see one calendar which shows all your upcoming follow-ups with any particular department. You also has the liberty to add this to your google calendar to get reminder on that day.
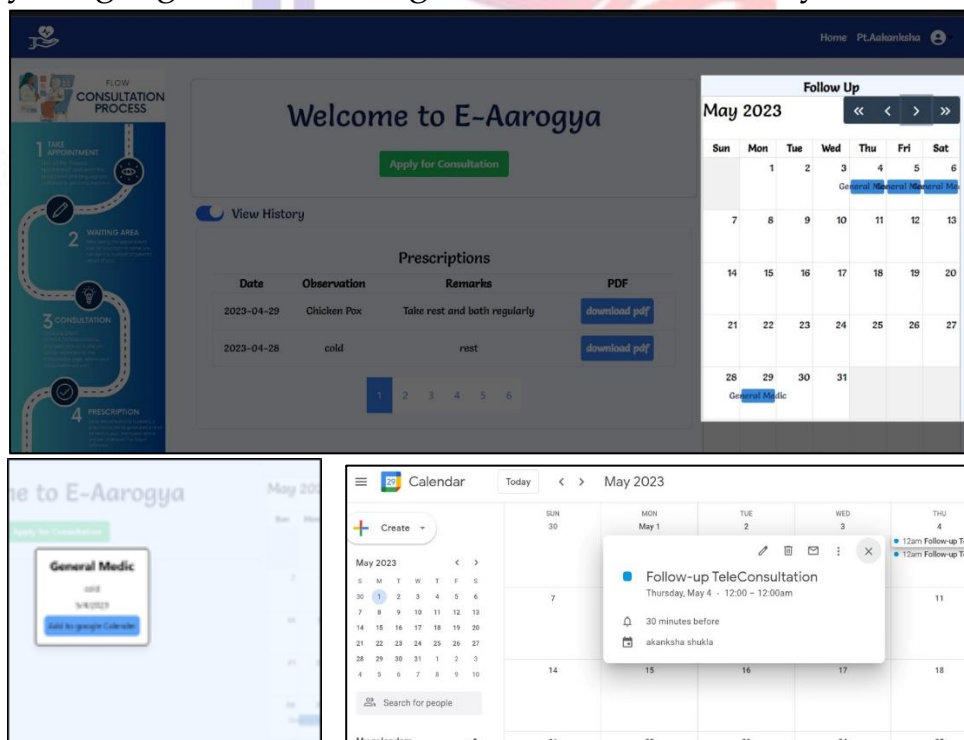
✓ **Apply for Consultation:** The heart of this website, you can take appointment under any department you wish for

and also you can select the language in which you want the consultation to be.

✓ **Revoke Consultation:** There might be chances that the patient doesn't want to consult anymore and want to leave, so he/she can simply revoke his/her consultation.
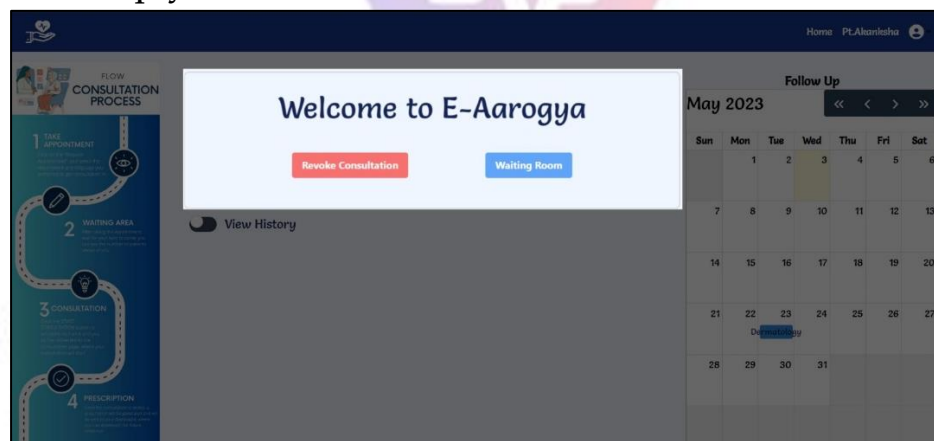
✓ **Join Consultation:** Once you apply for consultation, you'll be redirected to waiting area, where you will be able to see the total number of patient ahead of you. Wait until the join button becomes green, once it is enabled, you can start your consultation.

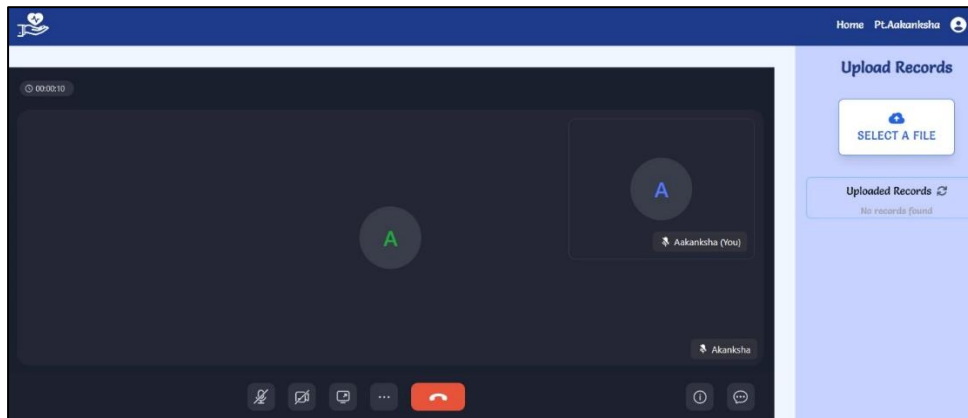✓ **Consultation Area:** Once you joined the consultation, video call will be started and you can talk to the doctor about your medical problem.

✓ **Upload Health Record:** If there is any need to upload your previous health records other than that of E-Aarogya, like your blood report, you should upload it from the side panel of upload records, also if you want to delete them you can delete also.
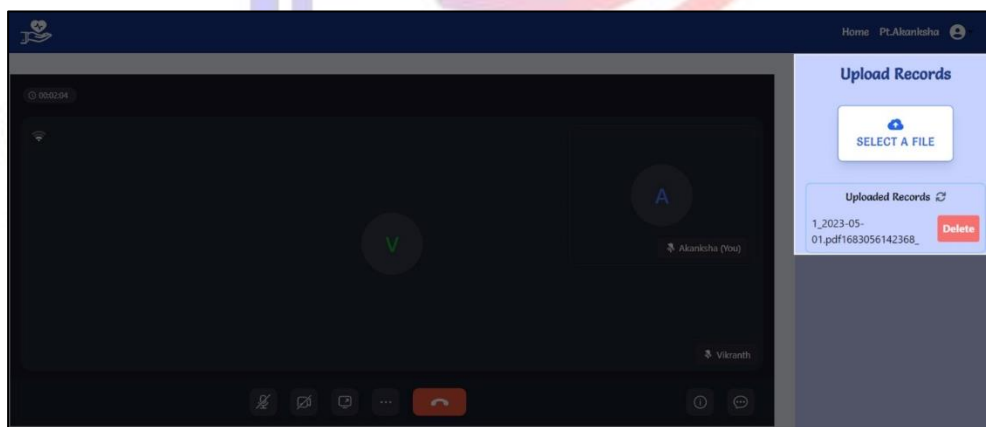

✓ **End Consultation:** Once doctor leaves the call, you can also leave it and you will be redirected to your consultation page where you can see your latest prescription.

[Note: If doctor is not coming for more than 5min of joining the call, please consider your appointment to be cancelled.]

E-Aarogya Doctor's Guide:

- ✓ **Login:** Login with your phone number and enter the otp sent to your phone number.
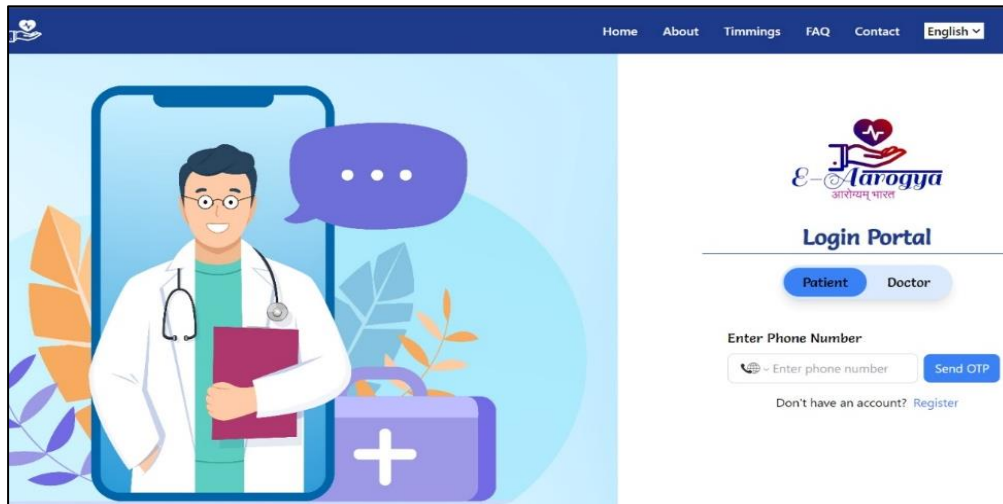

- ✓ **Doctor's Dashboard:** Once you are logged in to the website, you'll be able to see the doctor's dashboard. Here, you can see list of patients waiting in queue on the left panel, also you can see some info-graphics on the screen.
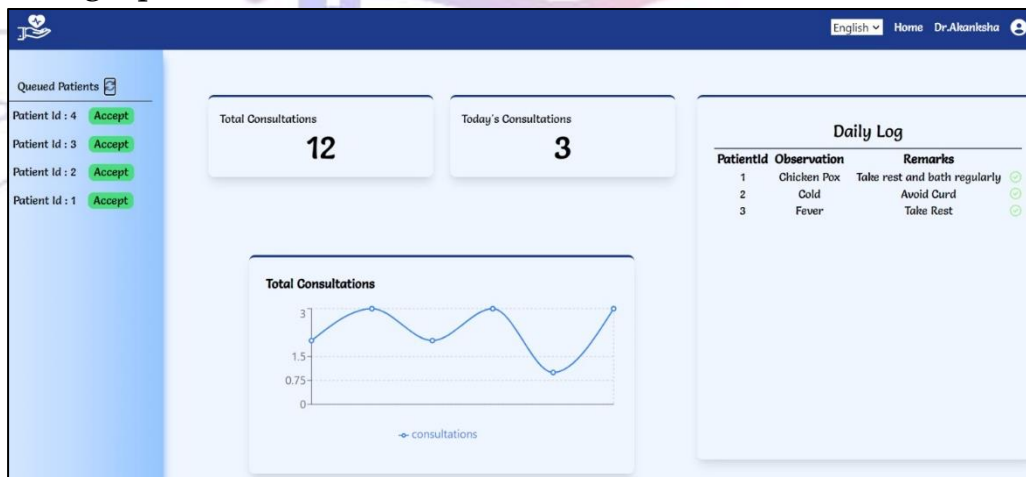
- ✓ **Daily Logs:** Doctor can see what all consultations he/she has done on the particular day.
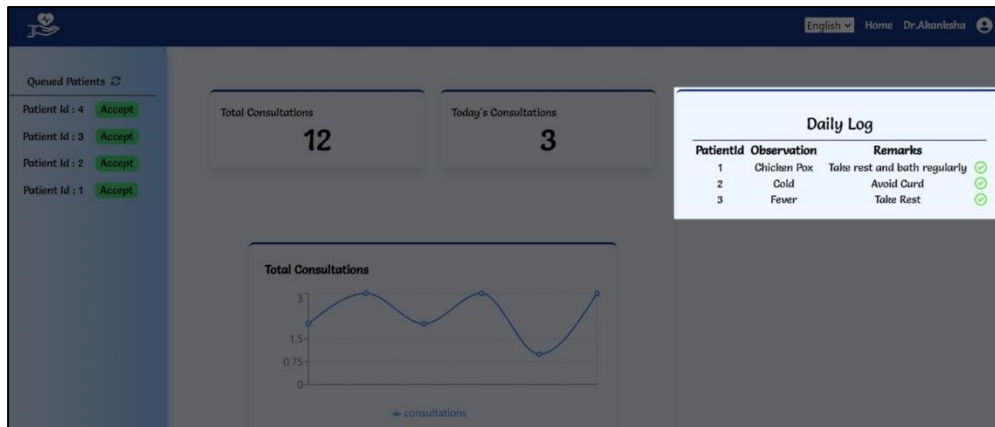
✓ **Queued Patients:** Doctor will be able to see all the waiting patients in the queue but can only accepts the first one's request.
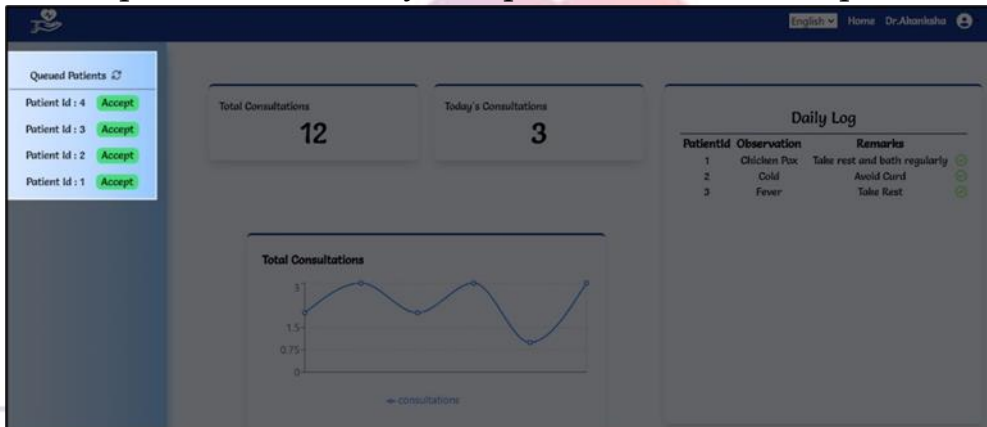
✓ **Consultation Page:** Once the doctor accepts the request for consultation, he/she will be redirected to the consultation page.

✓ **Patient's previous consultations:** Doctor can see patient's previous consultations iff the patient gives the consent for which

doctor have to click on send otp button and ask patient to tell the otp so that he/she can access their previous prescriptions for reference.

✓ **Health Records:** Once the patient uploads any health record on his/her end, doctor can see it in the health record section.

[Note: Doctor firstly has to end the videocall and then only he/she should submit the prescription, once add prescription is clicked, doctor will be redirected to the dashboard.]

Individual Contributions:

- ✓ **Akanksha Shukla (MT2022008):**
  - ➢ Complete UI/UX design
  - ➢ Video Call Feature
  - ➢ Appointment Queue maintenance
  - ➢ Functionality to protect page print during consultation
  - ➢ Database design
  - ➢ API Integration
  - ➢ JWT Integration

- ✓ **Ayush Agrawal (MT2022027)**
  - ➢ Functionality to Add to Google calendar
  - ➢ OTP login and Authentication
  - ➢ Multi-Lingual
  - ➢ API Integration
  - ➢ Functionality to take consent of patient before accessing his/her previous consultation records.

- ✓ **Vikranth Bari (MT2022131)**
  - ➢ Architecture design
  - ➢ Database design
  - ➢ API creation
  - ➢ Logic building
  - ➢ PDF creation and download
  - ➢ Functionality to add health record in real-time using Amazon S3.

- ✓ **Yaman Goyal (MT2022134)**
  - ➢ Spring security
  - ➢ Role based authentication
  - ➢ API creation
  - ➢ JWT integration