

HelmiPredico

OFFICIAL DOCUMENTATION



APRIL 22, 2023

HEALTHCARE

Tabel Of Content

- Project Scope
- Technology Used
- Architecture Of The System
- Data Collection
- Application UI
- Use Case Diagram

2. Project Scope (Predico)

- The disease prediction system have 3 users such as doctor, patient and admin.
- Each user of the system are authenticated by the system.
- There is a role based access to the system.
- The system allows the patient to give symptoms and according to those symptoms the system will predict a disease.
- The system suggests doctors for predicted diseases.
- The system allows online consultation for patients.
- The system helps the patients to consult the doctor at their convenience by sitting at home.

3. TECHNOLOGY USED

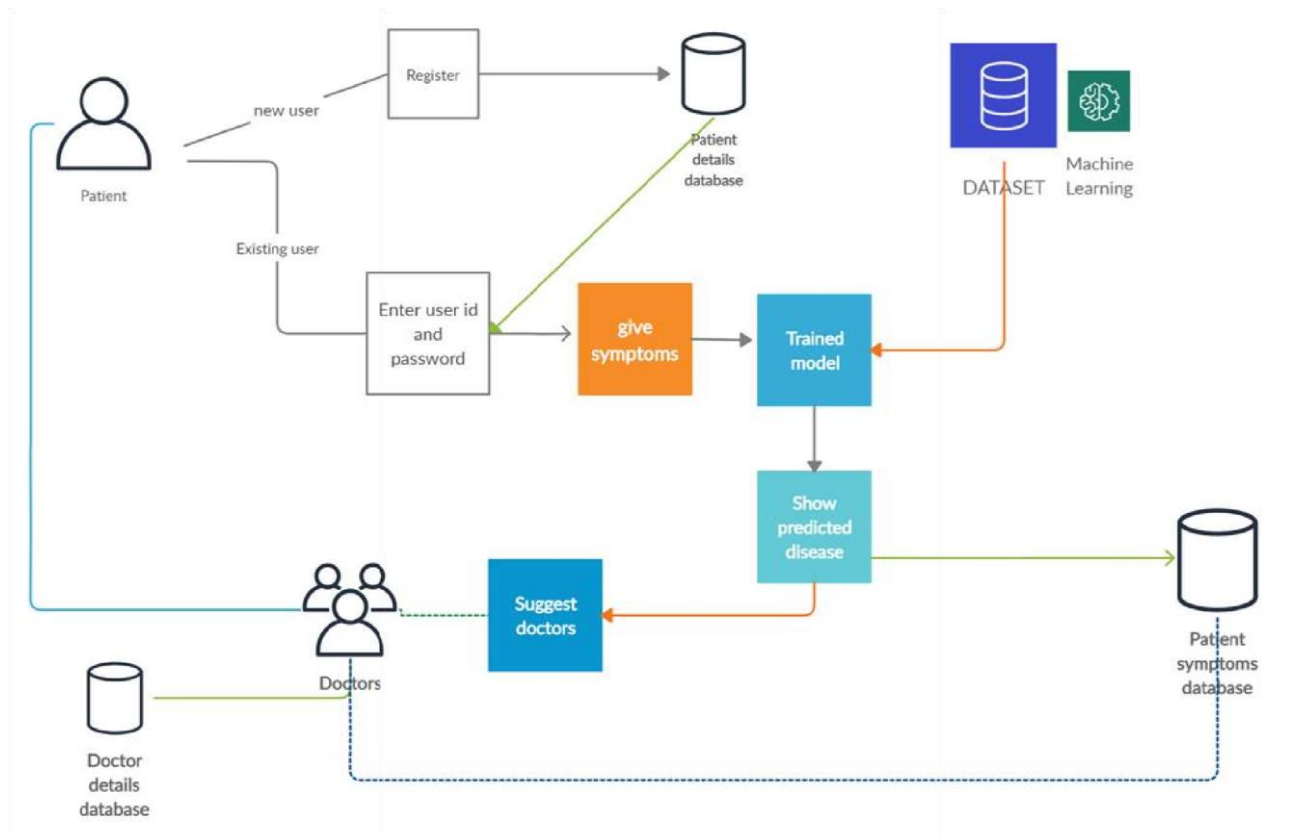
Front end: HTML, CSS , Bootstrap, Javascript

Back end: Django

Database: PostgreSQL

Tools: PgMyadmin, Orange

3. Architecture of the System



4. Data collection

Data collection has been done from the internet to identify the disease here the real symptoms of the disease are collected i.e. no dummy values are entered.

The symptoms of the disease are collected from kaggle.com which is website with a largest of datasets has made using ML & Iot

(<https://www.kaggle.com/datasets/neelima98/disease-prediction-using-machine-learning>)

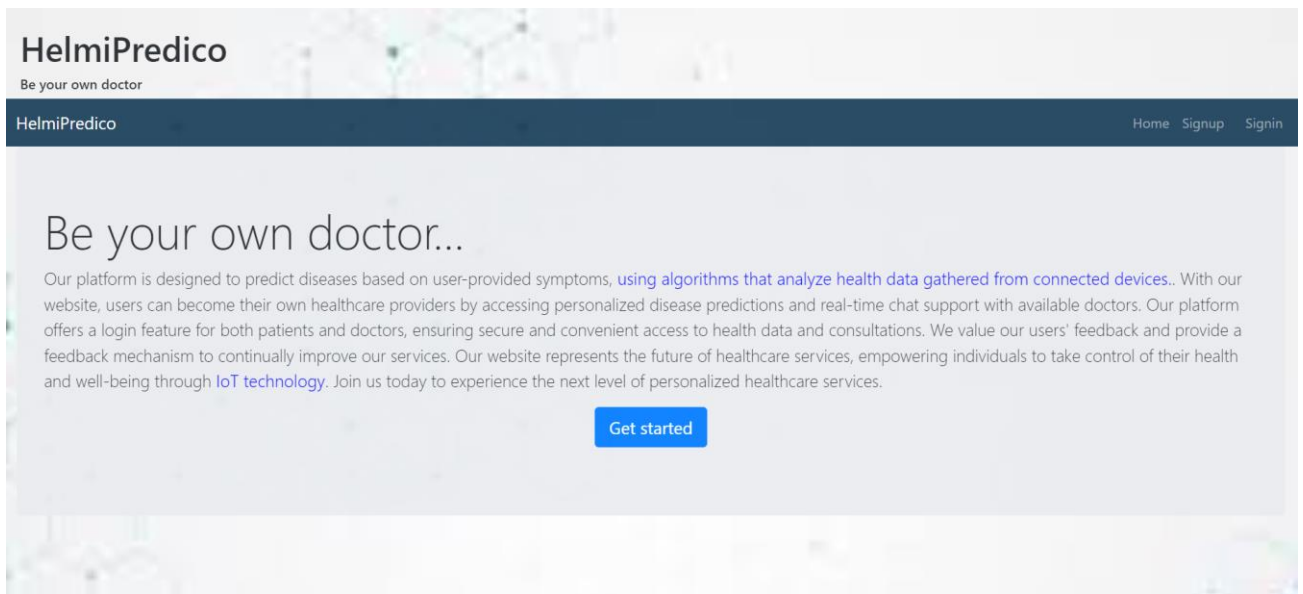
This csv file contain 5000 rows of record of the patients with their symptoms(132 types of different symptoms) and their corresponding disease(40 class of general disease) , After the data is collected, it is securely transmitted to the system's servers for analysis. With the help of Internet of Things (IoT) technology, the data is modified depending on the users devices, ensuring seamless integration with the system. The modified data is showed so to the patient with the most disease predcited .

Some rows of disease with their corresponding symptoms in the dataset are -

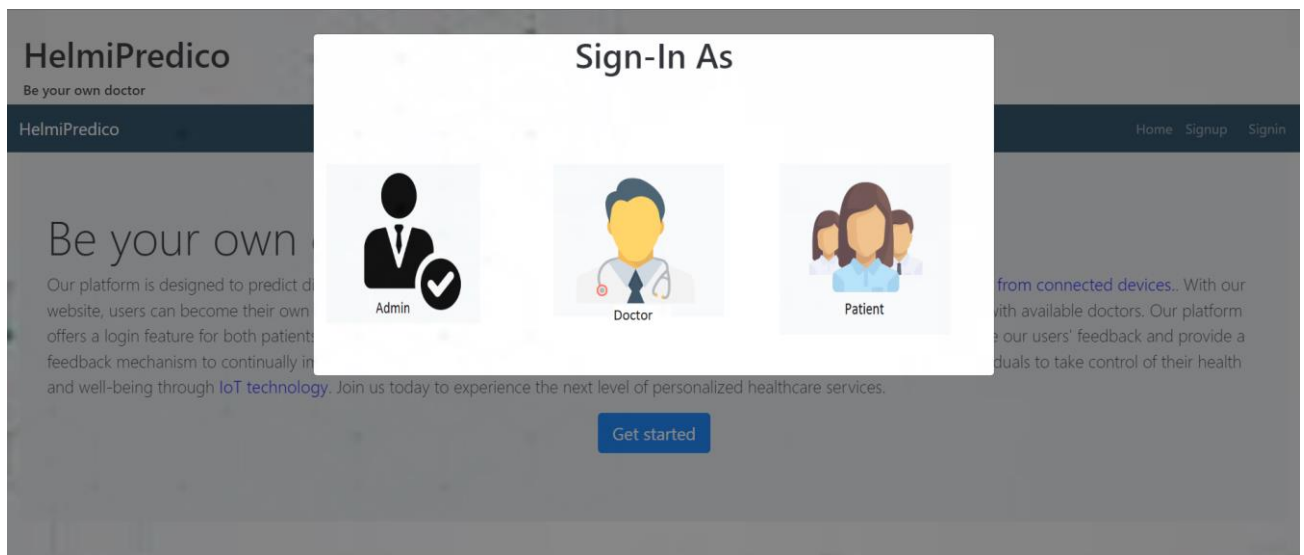
	Disease	Symptoms
0	Malaria	[chills, vomiting, high_fever, sweating, headac...
1	Allergy	[continuous_sneezing, shivering, chills, water...
2	Fungal infection	[skin_rash, nodal_skin_eruptions, dischromic _...
3	Gastroenteritis	[vomiting, sunken_eyes, dehydration, diarrhoea]
4	arthritis	[muscle_weakness, stiff_neck, swelling_joints,...
5	Typhoid	[chills, vomiting, fatigue, high_fever, headac...
6	Hypertension	[muscle_weakness, stiff_neck, swelling_joints,...

5. Application UI

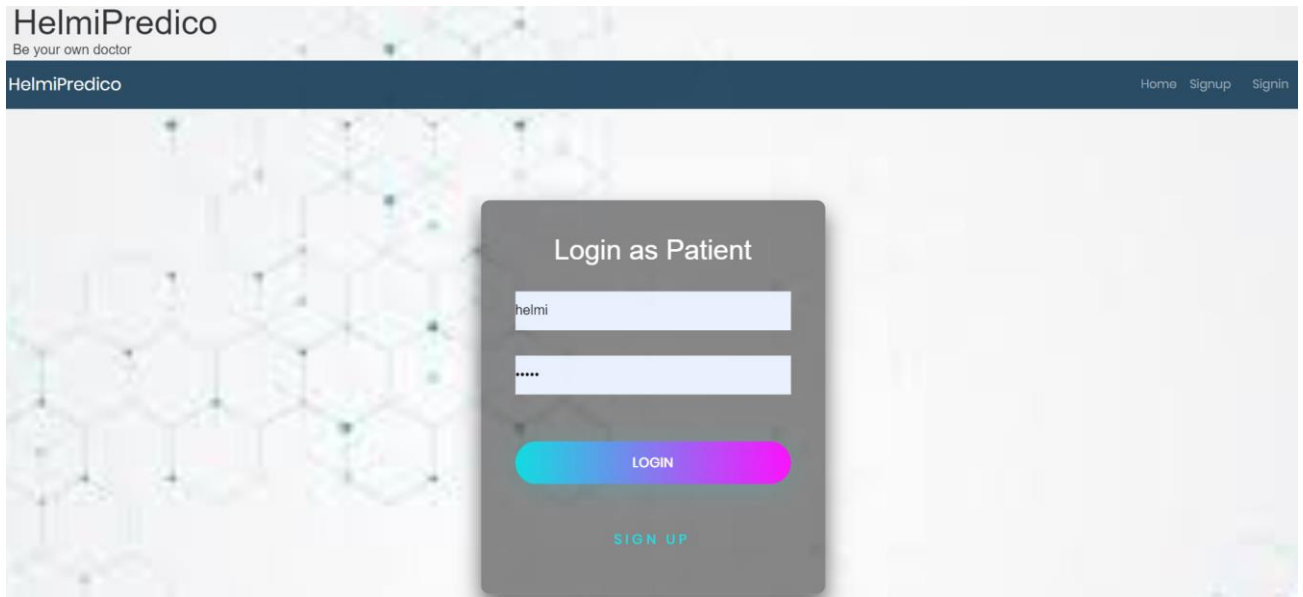
Homepage-



Login Modal-

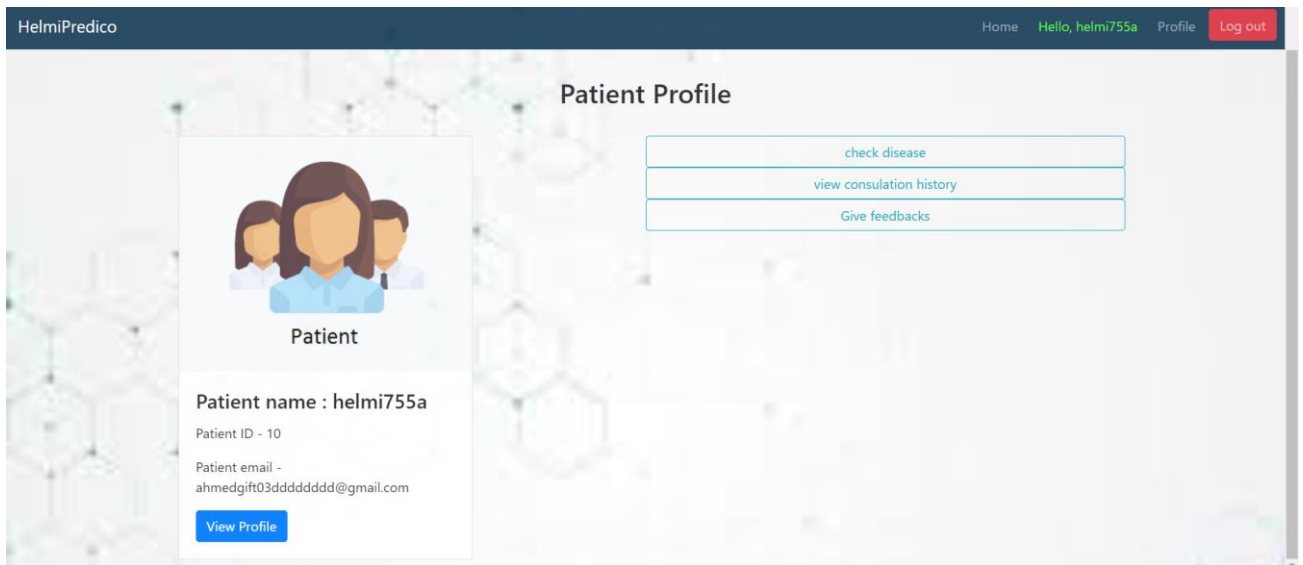


Login as Patient-



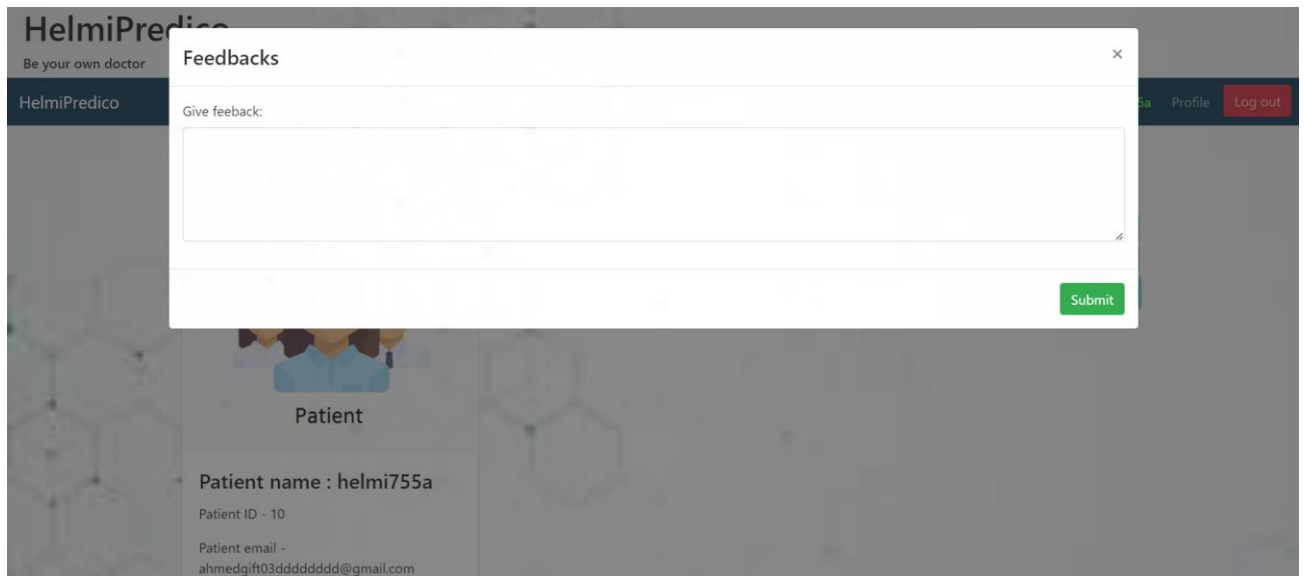
The screenshot shows the HelmiPredico login interface. At the top, the logo "HelmiPredico" is followed by the tagline "Be your own doctor". A dark blue navigation bar contains the text "HelmiPredico" on the left and "Home", "Signup", and "Signin" on the right. The main content area features a large, semi-transparent modal box titled "Login as Patient". Inside this modal, there are two input fields: the first contains the text "helmi" and the second contains six asterisks "*****". Below these fields is a prominent "LOGIN" button with a blue-to-purple gradient. At the bottom of the modal, there is a "SIGN UP" link in a smaller, teal font. The background of the page is a light gray with a faint, repeating pattern of hexagonal molecular structures.

Patient UI-

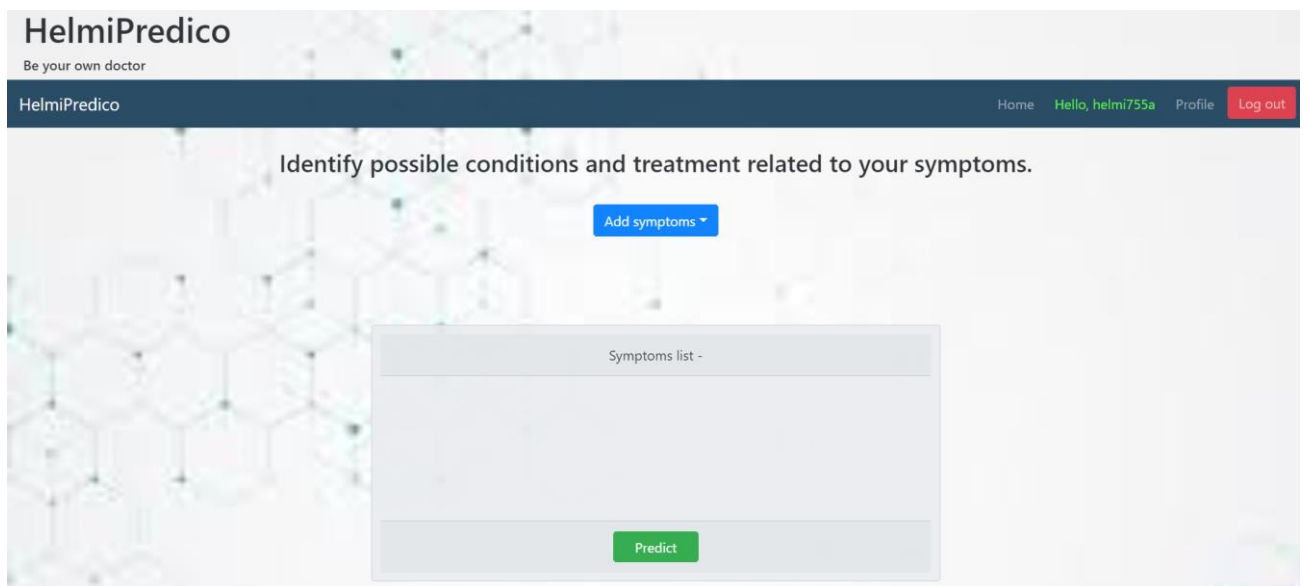


The screenshot displays the "Patient Profile" section of the HelmiPredico application. The top navigation bar is dark blue, showing "HelmiPredico" on the left and "Home", "Hello, helmi755a", "Profile", and a red "Log out" button on the right. The main content area is titled "Patient Profile". On the left side, there is a white card containing a stylized illustration of three people (two adults and one child) and the word "Patient" below it. Further down in the card, the text reads: "Patient name : helmi755a", "Patient ID - 10", and "Patient email - ahmedgift03ddddd@gmail.com". A blue "View Profile" button is located at the bottom of this card. To the right of the card, there are three stacked, light blue rectangular buttons with rounded corners, labeled "check disease", "view consultation history", and "Give feedbacks" from top to bottom. The background of the page is a light gray with a faint, repeating pattern of hexagonal molecular structures.

Feedback Form-



Check Disease- Entering symptoms



Predictions-

Symptoms list -

acute_liver_failure

blood_in_sputum

bladder_discomfort

abdominal_pain

Predict

Patient name : helmi755a Age : 0

predicted disease is : Hepatitis E

confidence score of :

43%

Click here to know more about Hepatitis E

Consult a Doctor-

HelmiPredico

Be your own doctor

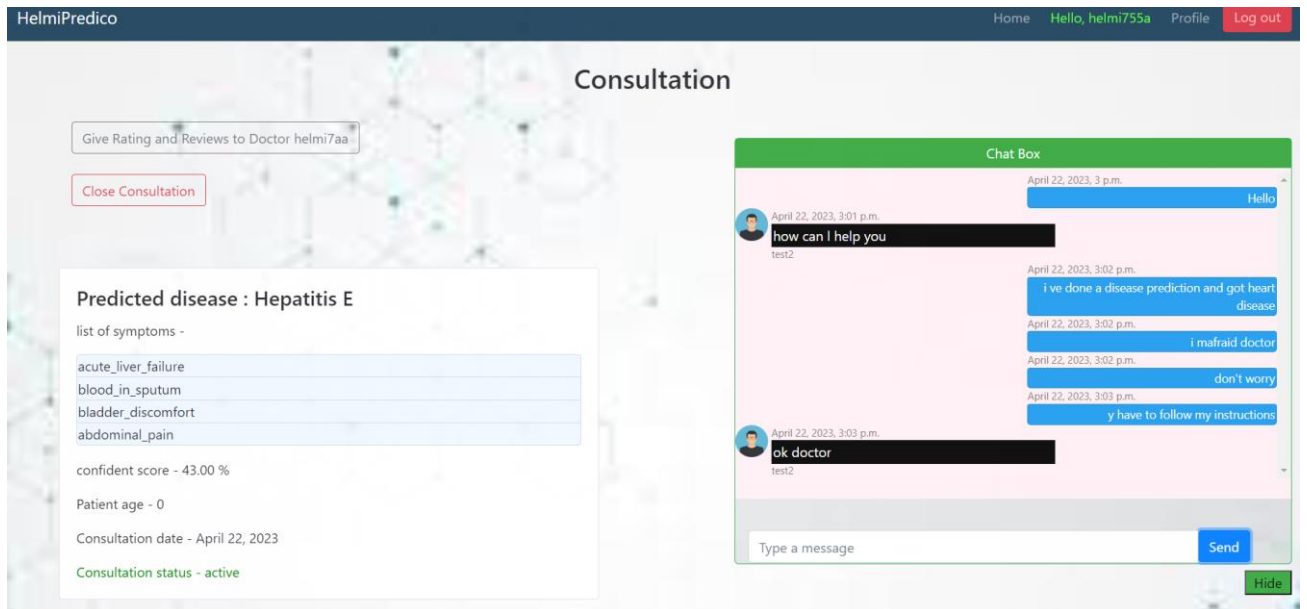
HelmiPredico

Home Hello, helmi755a Profile Log out

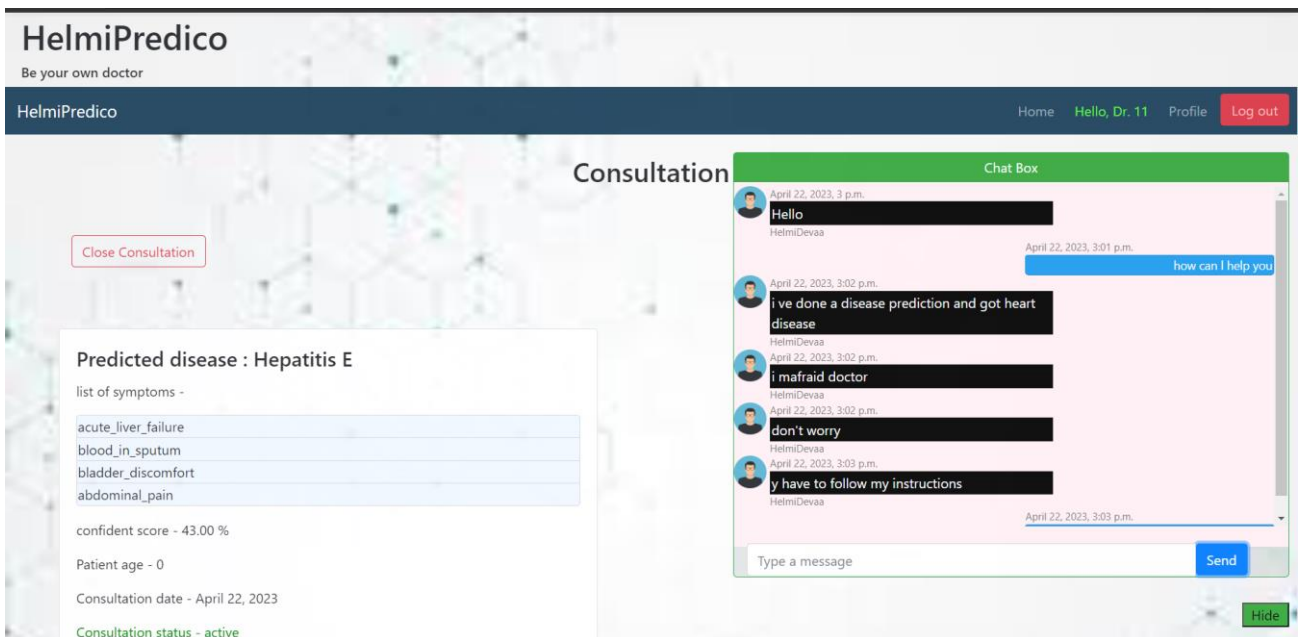
Consult a Doctor

Doctor name	Specialization	Email	Ratings	View profile	Consult
helmi7aa	Orthopedist	ahmedghift03@gmail.com	0/5	view profile	Consult
hh	0	helffffffm11ipaty@gmail.com	0/5	view profile	Consult
helmi7	heart disease	ahmedgift03@gmail.com	4/5	view profile	Consult
11	Dermatologist	helimip11111111aty@gmail.com	0/5	view profile	Consult

Consultation UI- (Patient)



Consultation UI- (Doctor)




Consultation history- (Doctor)

The screenshot shows the HelmiPredico web application interface. At the top, the logo "HelmiPredico" is displayed with the tagline "Be your own doctor". Below the logo is a dark blue navigation bar containing the text "HelmiPredico" on the left and links for "Home", "Hello, Dr. 11", "Profile", and a red "Log out" button on the right. The main content area is titled "Consultion History" (note the typo). It features a table with the following columns: "Patient name", "Patient Email", "View Patient's profile", "Predicted Disease Name", "Consultation Date", "Consultation Status", and "Resume Consultation". A single row of data is visible, showing a patient named "helmi7" with email "ahmedgivrwwvvt03@gmail.com", a predicted disease of "Dimorphic hemmorhoids(piles)", a consultation date of "April 22, 2023", and a status of "closed". Action buttons "view profile" and "Consult" are present in the row.

Patient name	Patient Email	View Patient's profile	Predicted Disease Name	Consultation Date	Consultation Status	Resume Consultation
helmi7	ahmedgivrwwvvt03@gmail.com	view profile	Dimorphic hemmorhoids(piles)	April 22, 2023	closed	Consult

Admin Sign in-

Admin Signin



Login

Username

Password

☒ Remember me

Admin Interface-

Site administration

AUTHENTICATION AND AUTHORIZATION

Groups	+ Add	Change
Users	+ Add	Change

CHATS

Chats	+ Add	Change
Feedbacks	+ Add	Change

MAIN_APP

Consultations	+ Add	Change
Diseaseinfos	+ Add	Change
Doctors	+ Add	Change
Patients	+ Add	Change
Rating_reviews	+ Add	Change

Recent actions

My actions

None available

6. Use Case Diagram

