

Project Specification:

Product backlog:

This project is divided into two big parts. We have a patient app enabling patients to ask questions about symptoms and a doctor's app to answer questions.

Patient:

1. Register/Login:
 - a. Patients register: patients need to have accounts to ask questions, and the registration process should involve username, password, email, ages and so on.
 - b. patient login: patients need to log in so that they can use their crypto to ask questions or search for symptoms.
2. Post:
 - a. Crypto trading: Each patient will have cryptos and they need to consume cryptos to ask questions. Their cryptos are stored in their profiles and they can decide how much cryptos they may use for that question. Doctors will earn cryptos after the patients receive satisfying answers.
 - b. Rating mechanism: patients can rate doctors after the ending of the post. After patients click the "end posts" button, a new page will pop up for the rating of that doctor, and the doctor's rating will be updated in the doctor's profile.
 - c. Searching symptoms via keywords: Patients are allowed to search symptom keywords to see if there are similar symptom questions before that can be helpful.
 - d. Post new symptoms: If there are no similar symptoms before, patients can use cryptos to ask new questions, and they need to choose the category when drafting questions so that expert doctors can see the posts. (if patients can't recognize the category, they are allowed to choose general category.)
 - e. When spanning the symptoms, patients are allowed to use categories to filter all of the symptoms and check if there is any useful information in this category.
3. Common questions: there is a block to show some basic articles about common symptoms provided for patients to read.
4. Searching for doctor (category)
 - a. category: Patients can search the doctors via category, the doctors list will appear in the order of doctor's rating.
 - b. profile: Doctor profiles are available if patients click doctor's profile, and the doctor's work phone would be available after patients pay the cryptos. (there will be restrictions such as only available when work hours) (visible work phone after paying)(restriction: only available in work hours set by doctors)

Doctor:

1. Register:
 - a. Doctors need to upload their name, position, hospital, license, specialty, phone, email so that we can recognize the "fake" doctors.
2. Visible information:

- a. Only questions belonging to the doctor's department or questions in the general category can be shown on the doctor's page and the doctor can answer the questions they want.
3. Patient profiles, posts, record:
 - a. Doctor's profiles should also include the historical record of answering questions and the total number of questions answered so that patients can check if that doctor is qualified.

First sprint backlog:

Patient:

1. User interface
2. login/register
3. Post: post new symptoms
4. Common articles

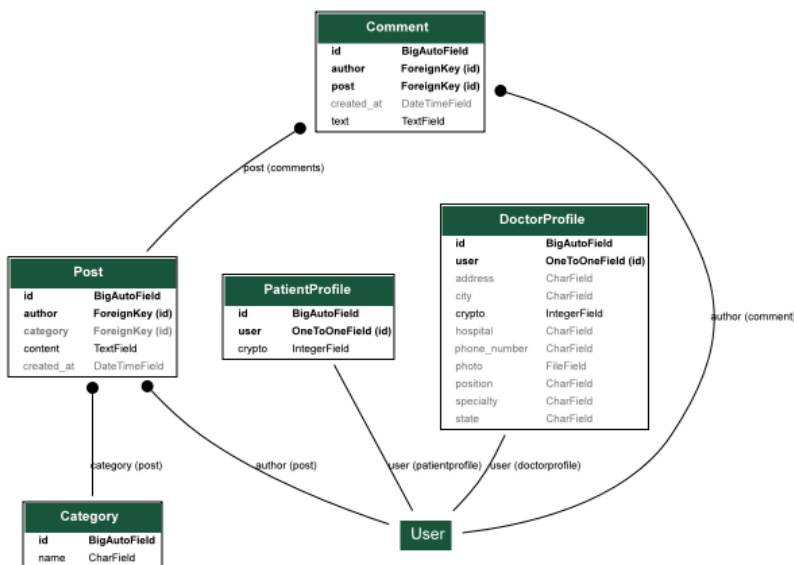
Doctor:

1. User interface
2. login/register
3. Post page

Product owner:

Calvin

Data Models:



HTML mock-ups:

1. Patients login page

PDP Platform

Press to Register

Register

Doctor Platform

Doctor press to reach doctor platform

Login

Username:

Password:

Submit

Everyone will reach the patient's login page first. In this page there is a button for login or navigate to the registration page. If a doctor wants to reach the doctor platform, clicking the "Doctor Platform" button will navigate to the doctor login page.

2. Patients register page

PDP Platform

Login

register

Username:

None

Password:

....

Confirm:

....

Email:

None

First name:

None

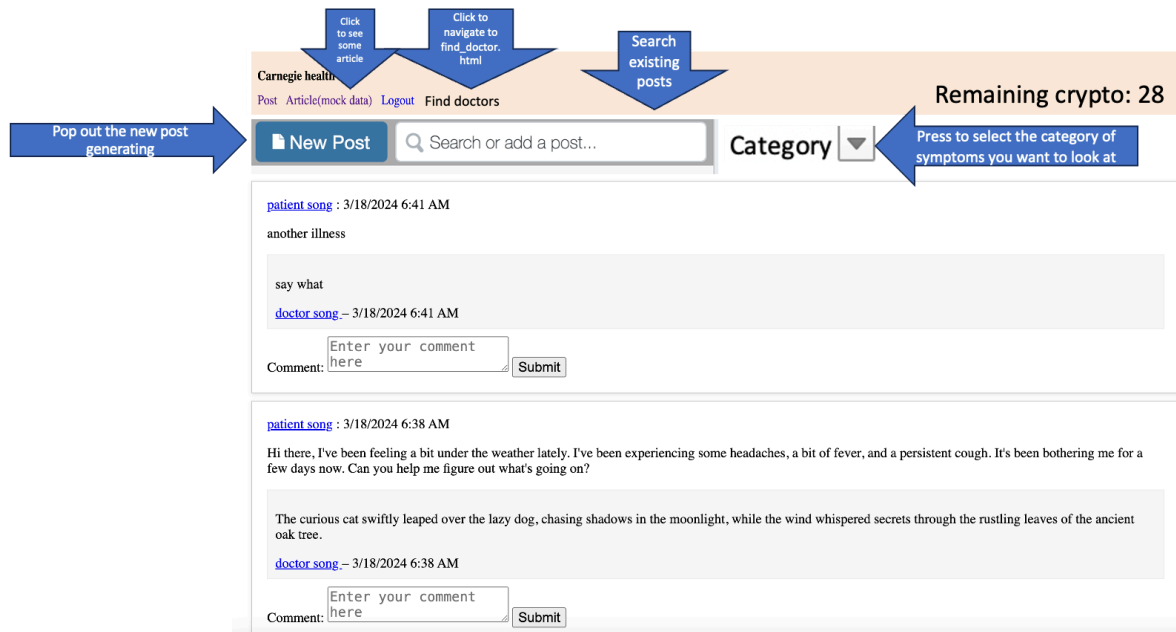
Last name:

None

Register

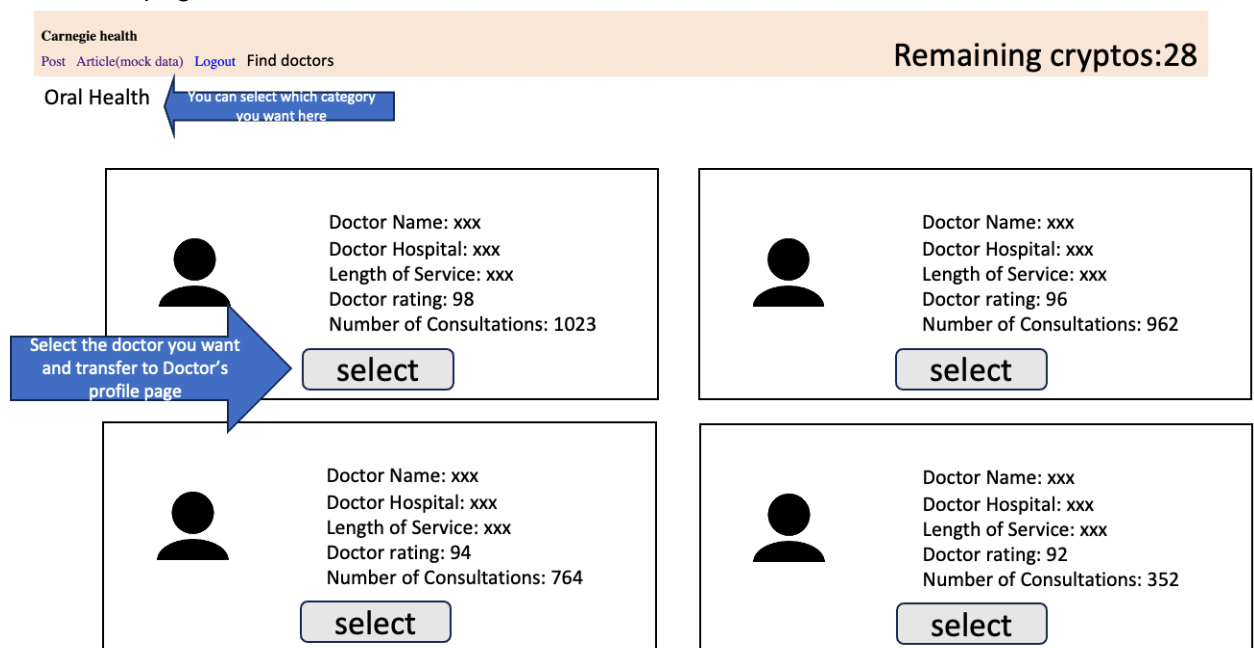
Patients are allowed to register themselves on this page after clicking the register button. Error message will be displayed if password confirmation is not passed.

3. Patients Global Page



There are several features in this main page. All patients' posts will be listed with patients' usernames, creation time and so on. By clicking "New Post", patients are allowed to be navigated to a pop out screen for posting new questions. By clicking "Article", patients will be navigated to an article page which contains some common sense. By clicking Category, there will be a drop-down list for patients to select which category of symptoms he/she wants to look at. By clicking the "Find Doctors" button, patients will be navigated to the Doctor list page showing all expert doctors for them to select. The right top "remaining crypto" will show how many cryptos the patient have.

4. Doctor list page



Patients are allowed to select the category they want on the top. The doctor list will be ordered by rating scores, and doctors' brief profiles including name, hospital, length of service will be displayed. Patients can span the doctors' profile and click select to check the complete profile.

5. Doctor's profile page for patients

Carnegie health

[Post](#) [Article\(mock data\)](#) [Logout](#) [Find doctors](#)

Remaining cryptos:28

Doctor XXX's Profile

Doctor Name: xxx
Doctor Hospital: xxx
Length of Service: xxx
Doctor rating: 98
Number of Consultations: 1023

Doctor's historical auscultation records

1. Patients yyy's question: How can I be more stronger?
Doctor's answer: You can eat some rice

2. Patients zzz's question:
Doctor's answer:

Are you willing to pay xx cryptos to get Doctor's work phone number for personal consultation?(Notice: Phone calls can be done only when doctors are available.)

Pay

After clicking pay, your cryptos will be deducted, the page will be refreshed with Doctor's work phone

There is a section named Doctor's historial accumulation records displaying the historical answers the doctor has made, which means answers of doctor are linked to doctor's profile in the model. By clicking the "Pay" button, cryptos will be deducted and a doctor's work phone will appear.

Doctor XXX's Profile

Doctor Name: xxx
Doctor Hospital: xxx
Length of Service: xxx
Doctor rating: 98
Number of Consultations: 1023
Doctor Work Phone: 123456899
Doctor Available Time: W 1-3pm

Doctor's historical auscultation records

1. Patients yyy's question: How can I be more stronger?
Doctor's answer: You can eat some rice
2. Patients zzz's question:
Doctor's answer:

Pay

6. Article Page:

Popular science articles

New Post:

[John Doe](#): 3/18/2024 10:30 AM

This is the content of the first article.

First comment on the first post.

[Jane Doe](#) – 3/18/2024 11:00 AM

Second comment on the first post.

[Alice Smith](#) – 3/18/2024 11:30 AM

[Jane Smith](#): 3/17/2024 9:45 PM

This is the content of the second article.

First comment on the second post.

[Bob Johnson](#) – 3/18/2024 10:00 AM

7. Add post page:

Patients can choose the category of the doctor that they want to consult with. They need to enter the summary and the details of their symptoms. They can choose an image to upload. Once finished, click the post button to submit and then it will be directed to the patient's post page similar to the doctor's main page but without the search posts but the patient can only view their own posts.

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[Post](#)
[Article\(mock data\)](#)
[Logout](#)
[Find doctors](#)

Remaining Crypto: 28

Category

Orthopedics

Choose doctor's category

Summary*

Enter a one line summary, 100 characters or less

Details

Upload image:

Choose file

Post

8. Doctor global page:

Doctors can search posts by typing keywords or can filter posts by date. When clicking the post, the detail post content will be displayed on the right as shown. Doctors can answer questions in the answer box. Doctors can navigate to the Patient record page by clicking the Patient record button.

Carnegie health

[Post](#)
[Article\(mock data\)](#)
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[Patient record](#)

Crypto: 28

Search posts

Find post by date

post

post

post

post

post

post

post

Search post by keyword

Patient Farnam Jahanian

Summary: I have fever

Details

I am having fever for 38 days

Image uploaded by patient

followup discussions for lingering questions and comments

Start a new followup discussion

Compose a new followup discussion

Patient symptom summary


Doctor answer box

9. Patient record page:

Doctors can search patients by their name or find the patients by date. When clicking the select button, the page will be directed to a page similar to the doctor's main page but doctors can only view the posts by the specific patient.


Find by date

▼




Patient Name: Farnam Jahanian
Last answer date: XXXX-XX-XX
Age: XX
Sex: XX

select




Patient Name: Farnam Jahanian
Last answer date: XXXX-XX-XX
Age: XX
Sex: XX

select



Patient Name: Farnam Jahanian
Last answer date: XXXX-XX-XX
Age: XX
Sex: XX

select



Patient Name: Farnam Jahanian
Last answer date: XXXX-XX-XX
Age: XX
Sex: XX

select