EasyHealth

Mission Statement: The purpose of this project is to provide a free tool for understanding and demystifying neurological conditions based on patients' brain imaging in order to provide suggestions for medical professionals and recommend lifestyle changes for the patient.

Technologies:

****MIRO for diagramming****

Web Technologies:

- JQuery
- React
- VueJS
- Html, CSS, javascript
- Database
- NodeJS
- Chatgpt 4 API

Front End

Github link:

https://discord.gg/GguvaAsB

Journal to track symptoms for records
Connect with medical professionals
Recommend lifestyle changes

Front end + backend

Age
Gender
TBI?
Stress
Exercise

Previous conditions

AI chatbox if the person has questions too

Tasks:
Prompt generation: 10 outputs

Requirements elicitation

Functional requirements:

Functionality

- What will the system do?
- When will the system do it?
- Several modes of operation?
- Computations and data transformations?

Data

- Format of data for input and output?
- Do we need to retain any data?

Design constraints:

Physical Environment

- Constraints on size of the system?
- Are there constraints from existing software?

Interfaces

- Is input coming from one or more other systems(upstream)?
- Is output going to one or more other systems?

End-users

- Who will use the system?
- Are there different types of users?
- What is the skill level of each user?

Quality requirements:

Performance

Usability and human factors

Security
Reliability and availability
Maintainability
Precision and accuracy
Timeline/cost

Problem the software is solving:
Improving understanding/accessibility of reading CT brain scans for a layperson/patient

Potential issues:
How would the target user get a file of their CT scan…?

Will there be a neurologist on the other end recommending this to their patients? Should they have access to the database with the patient information?

Will there be anyone who has a need for this software? (if CT scans are not shared as a file to patients, then there will be no need for this service)
Target users are primarily older people who likely have very little/no experience with web applications, file input, AI, etc. … This approach may not be accessible or desirable to the target user.
A large percentage of the target users also have memory and cognitive limitations, should be heavily accounted for in the user interface.
Consider the full experience of end-user: ability to open a computer, open a web browser, input a url(probably written on sticky note on computer), input login information(on same sticky note)
Is it worth it to save user input for later login? (what would the purpose be?)
    Would the user need to input new information frequently? (new scans?)
    Would they be referring back to the same scan more than once?

Problem Statement: