EZ-Health

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Overview

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Introduction

- The medical field has a ton of tough medical jargon for someone outside of the field to understand

- In a study 91% of patients prefer the doctor that avoided medical jargon

- We wanted to create an application that helps to remove jargon and create a better user experience than what is currently available such as MyChart

Problem Statement

The difficulty and usability issues of modern patient-facing health applications have been well documented. The caveat of these systems is that there are no viable alternatives to medical software that prioritize the patient's experience and understanding of their own medical information. Miscommunication with doctors and caregivers after appointments can lead to patient confusion. Online patient portals are difficult to use and are typically eyesores that are overwhelming to navigate even for tech-savvy patients.

Solution

The aim of our project is to create a web application to streamline the user interface in order to serve the patient a more user-friendly approach to healthcare documentation with a focus in UI/UX design, providing information in a format that the patient can easily understand. Utilizing simple, straightforward language and visuals in online documentation will provide a more user-friendly solution to the current standard of patient portals.
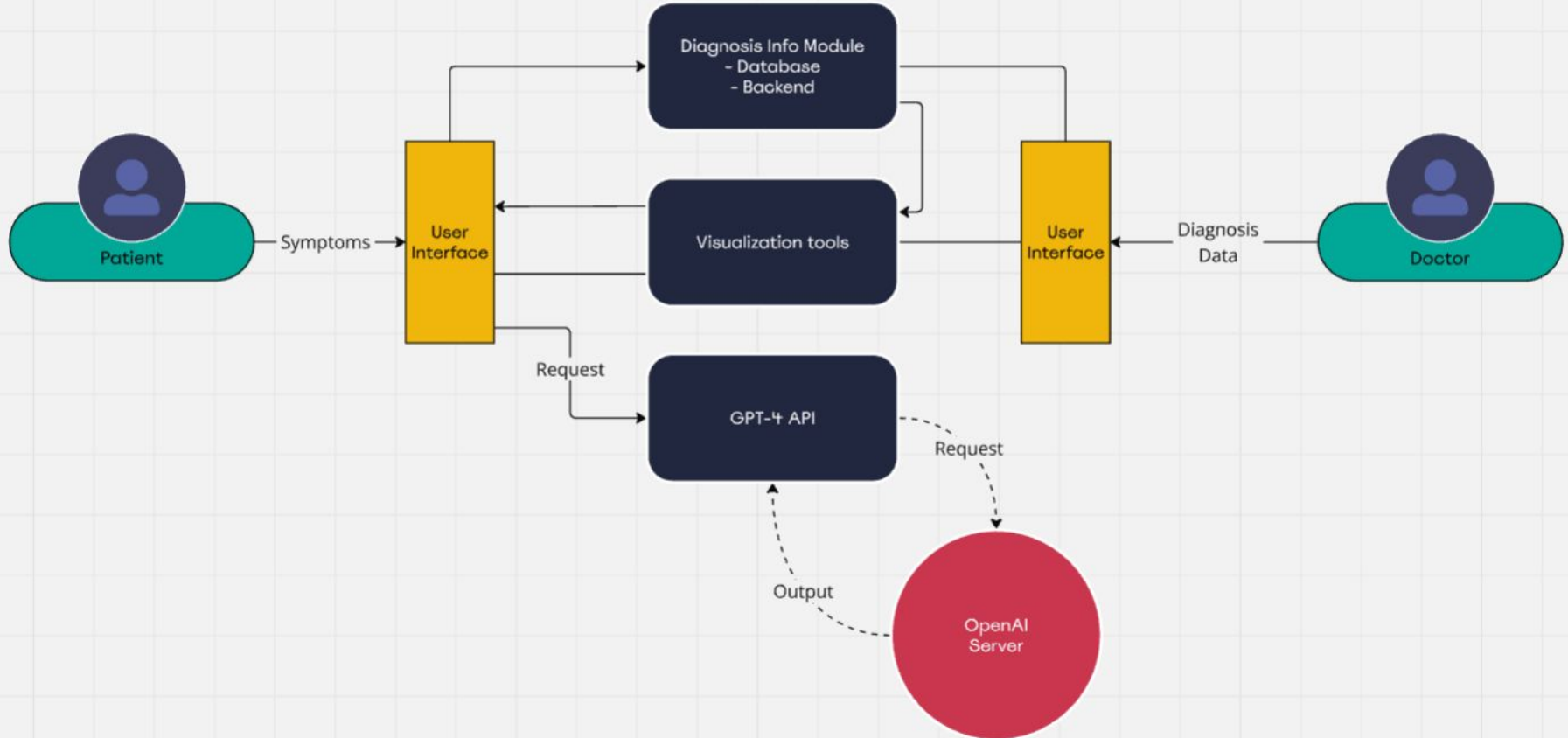
Client and Users

Client

Our target client will at first be local healthcare practices and then we would like to expand across the country. Our stakeholders include those that will be using this system like doctors and patients.

Users

Our primary users will be doctors, healthcare professionals, and patients. As long as the user is able to access the internet they will be able to access the website.
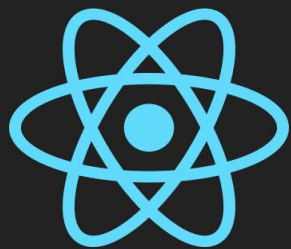
Use Case Diagram

Client Constraints

Due to protection of privacy, only doctors and a patient's medical team can access a patient's medical information. A doctor will have a list of patients and can view each individually. The application itself is only accessible through an internet browser. It is recommended to use a laptop or a PC instead of a mobile device to access the website.

Welcome to EZ-health

EZ-health will help tackle the challenge of translating medical jargon, keeping track of symptoms, and allow easy access to notes from your doctor.

Login

Log In

Email:

Password:

Submit

Patient Profile

First Name:

Last Name:

Date of Birth:

mm/dd/yyyy

Email:

Phone Number:

Gender:

Pronouns:

Profile Photo:

Choose File No file chosen

Submit

Symptoms

Headache

Date: 2023-10-01

Severity: 5

Notes: Mild headache in the morning

Date: 2023-10-02

Severity: 7

Notes: Severe headache in the evening

Fever

Headache Severity Over Time

2023-10-01: Severity 5

2023-10-02: Severity 7

AI Notes

Upload File:

Choose File | No file chosen

Text Input:

Assign Patient:

Submit

Additional Text:

Submit

AI Notes

Patient: John Doe

File: note1.pdf

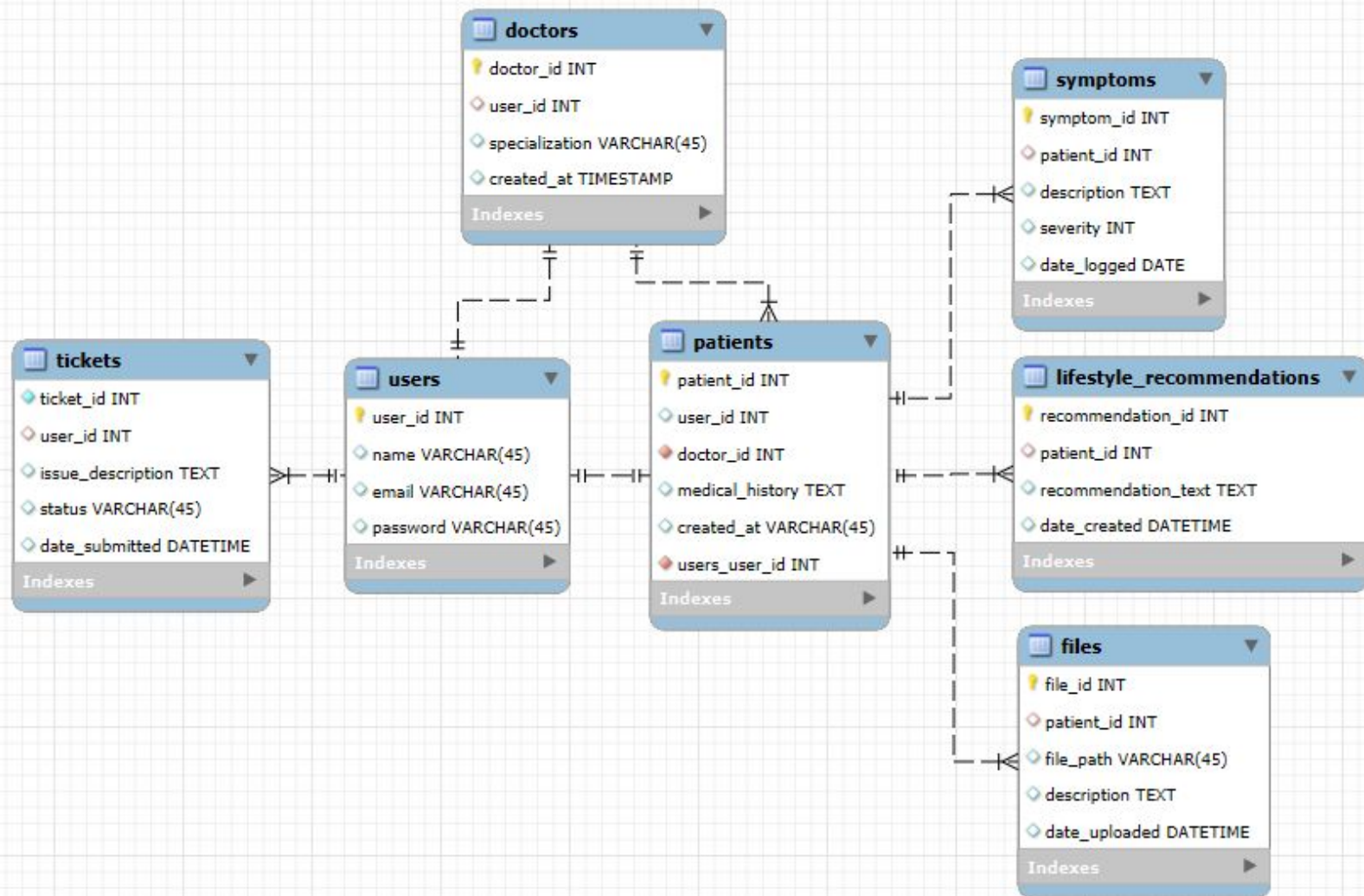**Text Input:** Patient has shown improvement in symptoms.

Additional Text: Continue with current medication.

Patient: Jane Smith

File: note2.pdf

Text Input: Patient reports mild headache.

Additional Text: Recommend rest and hydration.

Conclusions

- A website that can help remove medical jargon from a patient's medical notes can be very beneficial in patient care and make it easier for a patient to reference their medical notes on a user-friendly website
- This has been a fun project but we would have liked to have been able to deploy our website and correctly link the database
- Overall we have learned how to use React and flask and created a great tool for the medical field