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Service Layer Medical Connection

Description:
The service layer of any application is extremely important because it provides the functionality for the front end and business logic to speak with the database itself. Without a service layer you would not be able to get or manipulate any data from your database. While I know a swagger site was a requirement for this assignment, I decided to take the time to make one anyway so that I can have the service layer clearly documented and be able to quickly iterate on it in the future. I have worked with APIs in the past that have used swagger and the ability to quickly import them into postman and other API tools makes development much easier so I believe that the extra time put in now will pay off in the end. The swagger yaml file is linked in the submission.

Endpoints:

Doctors – This endpoint will accept both Get and Post requests and will be primarily used by the doctor's page as well as the patient settings page. In the doctor's page it will be used to input and update doctors' information and inside of the patient page it will be used to display information about the doctor that you are seeing. One more page the endpoint may be used is the appointment page to show some more information before you are booking an appointment. This endpoint will also be hit with the Symptom Matching functionality where we can match symptoms to the doctor although that will also involve a few other endpoints that I have.

Patients – The patient's endpoint will accept both Get and Post requests and will be primarily used on the patient's page for the patient to update and create their record that holds their information. It will also be used in the doctor's appointment schedule page to show some more information about the patient before they come in for their appointment.

Appointments – The appointments endpoint will accept both Get and Post requests and will be used pretty heavily throughout the application, the Get will primarily be on the schedule page to show upcoming appointments but will also be on the patient page where they can schedule an appointment using the Post request. I also see the potential for it being used on the Doctor Schedule page where the doctor or provider can view this information as well.

Medical Records – The medical records endpoint will also accept both Get and Post requests and will be used by both the patients and doctors' pages. Patients will be able to utilize this to see the medical records as well as use the export function that will export them out and email them to the destination of your choice. Doctors will be able to insert and view new medical records after each appointment or whenever else they feel the need to review them.

Symptoms – The symptoms endpoint will accept Get and Post requests to add symptoms by the patient and also will use Get requests by the doctor's page and will be an important endpoint in the Symptom Matcher functionality to match a patient to a doctor based on their inputted symptoms.

Doctors Symptoms – This endpoint will accept both Post and Get requests, Post requests from the doctor's page where they can insert symptoms that are covered under their specialization to best allow the patient to be matched correctly.