

MCG Staff Software Engineer Take Home Assessment

Exercise: Patient Care Management System

Overview

Design and implement a system to manage patients, incorporating additional features such as handling attachments with clinical information (any medical history information that relates to the patient, example is MRI, CAT Scan, previous Doctor's reports etc.).

Requirements:

- Create, update, retrieve, search and delete patient records.
 - Include fields such as patient ID, name, age, contact details, and medical history.
- Add capability to upload, store, and associate clinical attachments (e.g., MRI, CAT Scan, doctor's reports) with patient records.
- Provide search functionality to filter patients based on criteria such as name, medical condition, and attached document type.

Timeframe:

You have 2 days to complete this assignment. Please be sure to send your submission to your recruiter, alexis.baker@mcg.com through a version control repository link (e.g., GitHub) with all necessary files included.

This exercise aims to demonstrate your ability to create a comprehensive, secure, and efficient system for managing patient data with advanced handling features.

What interviewee is expected to produce:

- 1 (or more) page(s) Design Document, use Excalidraw or similar tool.
- Code for at least one API with programming language of their choice.