## **Software Engineering Intern Task**

Write a short program that simulates a basic health information system for managing clients and health programs/services.

Your solution should allow a doctor (system user) to do the following:

1. **Create a health program** – e.g., TB, Malaria, HIV, etc.
2. **Register a new client** in the system.
3. **Enroll a client in one or more programs.**
4. **Search for a client** from a list of registered clients.
5. **View a client's profile**, including the programs they are enrolled in.
6. **Expose the client profile via an API**, so that other systems can retrieve this information.

Please ensure that your code is clean, well-documented, and easy to understand.

Submission:

1. Provide a Github link of your repository for review.
2. Include a PowerPoint presentation on the approach, design and the solution
3. Include a prototype demonstration

*What we expect*

* *Demonstration of an understanding of the challenge*
* *Clean code*
* *Application of your software development skills with any framework you’re comfortable with.*

*What would be great*

* *Application tests*
* *API first approach*

*What would be amazing*

* *Added innovations and optimizations to the solution*
* *Some data security considerations*
* *Deployment of the solution*

*What we do NOT want*

* *To discover that you did not do the practical by yourself*
* *Ugly commits*

*What we will look at*

* *Your commit history*
* *Your README*
* *Your code quality, its structure, and how you implemented your design choices*
* *If the provided solution addresses the challenge*