

Analysis Checklist for the Hospital Management System.

Developer: Owen Abuto Okoth – 2023/2024

Functional Requirements (scale 1-10, 1 being poor, 10 being good)

- **Has the project overview been met adequately?** Yes. 8/10

Some areas of testing in the project using certain tools proved difficult such as SonarQube, however other tools accommodated the project effectively. The project also changed from what it was initially supposed to be by some minor tweaks and changes over the course of its development.

- **Have all the requirements been met.** No 6/10

Some of the requirements that had been posted from the requirements of the whole project have not fully been utilized due to errors as well as hiccups such as sign up fees and lack of storage space to accommodate all tools for metrics, architecture, Domain driven Design (DDD) among others. However based on the entire project development, all personal requirements have been met and satisfied.

- **Has Patient Management been well implemented? (registering, booking, billing, discharging, choosing doctors, updating information, tracking history, reports)** Yes. 10/10

All aspects of the hospital management system that had been submitted in the original README file have been met for the patients, upgraded and even enhanced to accommodate for a simpler user experience.

- **Has Doctor management been well implemented? (Signing up, log in, see symptoms, communicate with admin, scheduling)** Yes. 10/10

All aspects of the Hospital Management system in regard to the "Doctor" profile have been adequately satisfied, upgraded and deployed to enhance all of the Doctors capabilities, functions and permissions.

- **Has Admin management been well implemented?** Yes 10/10

All aspects of the Hospital Management System in relationship to what the admin roles and responsibilities have adequately been met and deployed as well.

- **Appointment and scheduling (appointment confirmation, handling emergencies)** Yes 10/10

All users of the hospital management system are able to effectively set appointments and the administrator is able to freely scale them and schedule them with the doctor of choice if a specific one has been chosen or allocate the patients to the next available Doctor.

- **Billing.** Yes 10/10

Admin is able to issue receipts and generate reports for patients to download based on Doctors analysis and recommendations of services rendered.

- **Storage of health records** 7/10

Currently the system only stores patients data such as name, address, and symptoms and the report billed, but has not been able to get extensive data of patients such as blood type, previous medical records, etc. But it shall be scaled

As for Doctors, it is also only able to store data such as name, occupation in the hospital, address, phone number etc.

However, it is able to store all input records in the database without getting rid of them until manual deletion by the administrator.

Non functional requirements

- **Performance (system performance, passed unit tests, can handle big loads)** 8/10

The system is working at optimum at the moment and has been tested using a number of doctors and patients to see if it will be able to handle the load and it has.

- **Scalability** 10/10

The system is highly scalable and shows room and opportunities for development into a larger commercial system with more features and more capabilities.

- **Security** 8/10

The system uses basic encryption to store passwords and data for the sake of Doctors as well as the patients and can definitely be improved over time.

- **Usability** 10/10

The system is extremely easy for both Patients and Doctors as well as for the admin to effectively operate the day to day management of the hospital

- **Reliability** 10/10

The system has proved to be reliable and has shown signs that it does not time out even on idle mode until suspended manually from the command prompt. Data is effectively saved within the database for ease of retrieval at a later time for any interested party.

Licence

Hospital Management System- Owen Abuto Okoth -2023