

DIGITAL HEALTH
Bismark Kwasi Frimpong Solution Pathway

Establishing a protocol to follow up in establishing a digital solution would be step tackling this use case problem. A unique logo depicting the family name needs to be designed to publicize the initiation. Data format to gather patient information in an encrypted format on a website through an appointment booking form.

Patient registration could be done on website by the patient themselves by online registration or in person in the laboratory of choice.

Data sharing could be established among the family members. Patients would be ensured about their legal, privacy, security protection of their data in terms of health data storing.

Interoperability within the family members (stakeholders) could be achieved by creating a database which would be accessed via the website via logins details. This would enable the stakeholders in the firm to get to know when a patient is registered through the platform. This would be made feasible with the help of sever which will integrate the user interface and the database together through a cloud. An R program would be used to visualize the data gathered to aid better interpretation of data to the stakeholders.

Informed decision could be made by the stakeholders per the visualization of the data. This helps not only in creating transparency to know the total number of tests run across the three-laboratory established. Moreover, this visualization will also help creates awareness as to which laboratory material runs out most often per the particular test that is booked most from the platform. There would be a link created on the website that would give access to both the staffs and the stakeholders just as the patient booking through online site.

The staffs would get access to enter the monthly data whilst also reporting clients results after being registered and test completed. There would be an option to enter individual results. Also there would be indication on the stakeholder's dashboard on the database to know those clients who are on awaiting results (pending) and those who have their test done and results submitted.

R would be used to collect data from airtable, there could also ways to try hands on visualizing the data generated from airtable through R to be run on the same sever. Php myAdmin may alternatively be used to serve similar purpose.

In setting up this digital solution would not just create interoperability among the family members, there would also be form of transparency and give better data driven informed decision for them. Moreover, give clues about incident rate of disease and better records keeping. Theoretically, this would be the stipulated gesture that would be suggested for solving this case problem. The next chapter would be the process and pathway through the development of this innovative development.