HOSPITAL MANAGEMENT SYSTEM PROJECT PROPOSAL

**Introduction**

Hospital Management System is an automated system that manages the financial and administrative medical facilities through a single management system. It is a web-based system that offers easy managerial tasks of handling certain functions like patient registration, appointment, scheduling, finance account (billing process or salaries) or test that needs to be done on patients. It is a system that can also record and store all these information for easy access, update and hospital decision making.

**Problem Domain**

The problems or issues that were diagnosed are necessities that needs to be addressed in this project proposal. There is little or no intelligence about the basic functionalities that needs to be handled in the hospital management environment which makes the current system lacking. Below are the problems of the existing system;

1. The manual storage of information about patients, tests or prescription through paperwork is time consuming which causes the problem of work overflow for staffs and inconvenient patients as well.
2. It does not provide information based on the availability of doctors, medicines or a particular treatment so it makes it hard for appointment to be made.
3. Information about patients name, assigned I.D’s, appointments, prescription and tests gets lost or damaged and cannot be restored or updated due to the poor data management storage system.
4. Finance department finds it difficult to collect and collate payment for services, purchase of medicines made by customers as well as keeping accurate records of doctors salaries
5. There is also the problem of security where patients information is not secured and can be viewed by mostly all the personnel.

**Proposed Treatment**

In our proposed system, we are going to provide solutions to the problems stated above by automating the whole hospital management system into a single system thereby making the system easy to manage. It can be done through the following:

1. By providing an online registration of patients for easy identification and easy access to all the medical facilities as well as personnel in the hospital thereby solving the problem of time consumption.
2. By providing an easy query handling on doctors, appointment, treatment and medicines availability through a search facilities.
3. By providing a secure database management system that can store information about all the integrated system for easy access and update
4. Also designing an financial account section that can easily collect and collate payment made to doctors, purchase of medicines as well as staffs salaries. This section makes billing process easy.
5. And finally providing a friendly graphic user interface in order for patients and staffs to find the system easy to use.

**Plan Work**

The work plan of this project proposal will commence on the 19th June to the 31st July. It contains the following activities:

19th June-24th June

Will involve laying down of the Specification of the project i.e the statement of work, functional requirement and graphic user interface of the project. It will also involve documenting a draft and giving a full report on the first activity.

28th June-3rd July

Will involve the design of the Online Vehicle Management System with the use of unified model language (UML) as well as writing a full draft and giving report on the work done.

10th July-31st July

Will conclude the coding and implementation of the system.

**Project Title & Group**

Hospital Management System- Group 2

**url from Github**: https://github.com/Ramatubangura/Hospital-Management-System.git

**Team Composition**

Team is compose of six members

Group leader- Ramatu Osman Bangura

* Alfred Kamara
* Abraham Israel Rocklyn
* Milton John
* Zainab Kamara
* Lawrence Nicol

**Project Proposal Description**

Our proposed system (Hospital Management System) is an automated system that offers the solution of information management involved in the hospital system. The information to be managed is on patients, doctors, administrative, nurses, finance accounts and also pharmacies. Below are the functional features of our project, it will involve

A Homepage which will include:

1. Contact Us- which provides information on how to contact the hospital through a phone number or a particular location.
2. Sign Up- where a doctors or patients can sign up in order to get access to the system. It also give patients access to register after signup.
3. About Us- that tells you all you need to know about the hospital.
4. User Login- includes four account types of login. There is a patient login, doctor login, admin login and hospital login.

* Patient login- where you will find a patient dashboard that will involve functions like booking appointments, view appointments, test history, medicine purchases, doctor prescription and logout.
* Doctor login- will also have a dashboard where he can view his appointment with patients, add prescription and can also view prescription, test and medicine history of patients along with a logout section.
* Hospital login- from the hospital login they can add and view doctors management details. They can also add appointments and also see all appointments detail of the doctors and their patient with a provided logout section.
* Admin login- dashboard contains appointment login, doctors’ fees management, doctor schedule management, patient test and medicine management, users management, log reports, finance sector and logout section.

Team Members are divided into Subgroup of three each, from which:

**Subgroup A**

- Alfred Kamara, Abraham Israel Rocklyn, Milton John

Will own the development of Users login account which includes patients, doctors, hospital and admins login and all their detailed functionalities.

**And Subgroup B**

* Ramatu Osman Bangura, Lawrence Nicol and Zainab Kamara

Will be in charge of developing Home, Contact us, About Us and Sign Up sections.

**Plan Work and product ownership**

14th June-16th June

Sub-team members will do some research and gather some information on the functional requirement and graphic user interface of what they are to develop and also documenting information that will help in the designing process.

24th June-26th June

Will involve the sub-team members designing their functional features of the system that needs to be coded using UML.

28th June- 7th July

Each sub-team will develop their functional features that needs to be integrated together to form the Hospital Management System

11th July- 15th July

Team members will integrate their codes together to implement the Hospital Management System.