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**MUNI UNIVERSITY**

**FACULTY OF TECHNOSCIENCE**

**DEPARTMENT OF INFORMATION AND COMPUTER SCIENCE**

**COURSE NAME: PRACTICAL SKILLS DEVELOPMENT (PROGRAMMING PROJECTS)**

**COURSE CODE: 1301.1**

**PROGAMMING PROJECT**

**GROUP THREE MEMBERS:**

1. **BALYEJUSA MICHAEL (TEAM LEADER)**
2. **AFEMA ALFRED**
3. **ABOMUGISHA MOREEN**
4. **DRAMAN ROPHINE**
5. **EGARU FELIX**

**THE DESIGN PROLEM**

Poor patient record management in health centers like hospitals dispensaries, clinics and others

**SOLUTION**

A desktop application named **PATIENT** **RECORD MANAGEMENT SYSTEM (PRMS)** has been developed to be used during record taking in different sectors in the medical centers. In departments like Patient registration, Laboratory, Staff registration, Mortuary, Immunization and so many other departments.

**RATIONALES**

**To digitalize record taking.** As compared with the analog way, papers were used and it will be difficult to insert data once the paper is used up. Digitalizing the record taking also solves problem of papers getting eaten up by insects, rats, rain wetting the papers. And many other problems

**To enable record keeping for long for future references.** This is important since these records are needed to measure progress of the health centre, references, **creating a knowledge base to help your employees grow and develop, to help utilize your time more effectively, Keeping records to help improve and grow your business**

**To solve the problem of space**. That is to say that spaces that would be occupied by the book store in the health centers. Imagine how big the store will be 100 years. But just one computer with big storage can store that data and it is portable for the case of personal computer. Desktops occupy negligible spaces. Therefore PRMS is the solution to this problem

**To reduce time consumption during the process of searching of individual records.** With PRMS it is much simpler because it is matter of going into your software and insert there any particular of the person and you get his or her records.

**TECHNOLOGIES USED FOR THE APPLICATION.**

**1. Python Programming**

**2. Sqlite3 database**

**Python programming language**. Tkinter python module language was used to develop the interfaces and linking the interfaces to the database plus other logics associated with the application.

**SQLite3 data base** for storing the data captured different fields in the health centre.

**REQUIREMENTS FOR USING THE APPLICATION**

A desktop computer with at least 1.8GHz processor speed and 2GB RAM

A personal computer with the same properties above

**ABOUT THE DEVELOPERS**

This application was splinted into different sector and each expert had apart to develop as shown below.

**BALYEJUSA MICHAEL**. I was the **Team leader** who mobilized my fellow colleagues to accomplishing our task and achieve our intended goal**.** Besides that, I specialized in the development of **In Patient** and **Out Patient** **departments**, as introduced to you earlier, Python language was used in developing those two interfaces mentioned and linking the databases, message boxes and others. Finally the database was developed using SQLite3.

**DRAMANI ROPHINE**. I was the sprint master and i specialized in the development of **bills** and **immunization** **departments**. As introduced to you before, python language was used for the project. I developed the interfaces with all its contents using this programming language. The logic behind the sector say, linking to database, message boxes and others using python language. The database was developed with the help of SQLite3.

**ABOMUGISHA MOREEN.** I specialized in the development of **staff interface** ,**mortuary interface** and **Creating Accounts interface** departments .As introduced to you earlier, she developed the interfaces with all its contents using this programming language in developing those three interfaces mentioned and Linking the databases, message boxes ,buttons and others. Finally the database was developed using SQLite3.

**AFEMA ALFRED**: Specialized in developing **Laboratory** and **Dental** interfaces by using Python programming Language while he used SQlite3 for developing the database.

**EGARU FELIX**. I worked on the **group’s login interface**, **system settings** where one can change his password and **view records interface** where is able to view all records in the **notepad** text document therefore making records printable.

**In conclusion, though the application is not meeting the standards as expected, it is still under the process of developing and the developers are still working hard to see that it become better software. Even the new versions will be developed and the users of the software will be updated.**

**We thank the instructor so much for having encouraged and inspired us for coming up with such a solution (PRMS) for our problem.**