**Introduction**

OUR\_APP\_NAME is a cloud based library management system that allow libraries to deliver content and resources to its users and staff, the cloud based library system provides easy ways for Liberians to create and store their library collections. It enables consumers and staff to communicate through multiple channels.

This software will allow librarians to track inventories and managing books, keeping record of books borrowed and it borrowers and the returning due date of the book.

Librarians will also have flexibility of managing their staff and theirs other branches through the system.

On the other hand, the system will also allow users to search for books through a smartphone or tablets, which will give them results of where they find the book they are looking for in the user surrounding area or in an area they user will specify. The users will have two options either to reserve the book for a late collection or just go directly to the library.

**PROBLEM DEFINITION**

It often difficult for people to know where they can find the book they are looking for, so they have to go from library to library to look for a book, which is time consuming.

There is excess paperwork which ends up creating a backlog and also potential loss of data because hard copies are not easy to keep intact.

It also very difficult for librarians to manage and track inventory of their books and also managing their others branches in case they have multiple branches

**HYPOTHESIS**

The app will be installed on user’s smartphone or tablets device, allowing them to search books of their choice and find the availability of books across various libraries. There will be more additional features whereby users will be able to order books online and collect them at the library they ordered from.

If the application is successfully developed and implemented following specialized criteria, then it will work effectively and reduce the traditional manual way of how the library systems work. There will be a web app for librarians which will be accessible anytime anywhere.

**OBJECTIVES**

* Make the system simple and easy to use

One of our objective is to make the system users friendly, automated backups, and easy upgraded to simply and enhance learning process.

* Increase library engagement

Avoid frustration and tediousness by providing librarians with 24/7 access to the library resources from anywhere, anytime,

The system will allow librarians to perform kind of actions such as creating, updating, searching books, staff and branches.

* Efficient cloud data management

Automate, simplify and deploy library data seamlessly to make it easy for any library to benefits from a secure cloud service. Improve efficiency with the automation of various library tasks including acquisition, cataloging, serials management, circulation and reference.

* Highly secure, scale and reliability

Libraries will benefit from a scalable infrastructure, role-based secure access, high performance and reliable to ensure seamless access to library data.

* Mobile access

The system will give users access to search books from library in a nearby location or in a specific area from anywhere, at any given time via smartphones and tablets.

* Error-free

The automated library software is user-friendly, powerful and developed for easy entry of data, makes library operations free from errors.

* Innovation

Users can search books, and also interact with librarians

* Fully customizable

The system will be fully customizable and adaptable to the needs of librarians and users to provide fast and reliable data

* Cost effective

Embracing sophisticated technologies is cost-effective and a viable choice for librarians and users. Using a cloud, mobile and digital libraries eliminates paper-based processes and maintenance overheads, improves productivity, reduces operation cost and saves time.

**JUSTIFICATIONS**

* The option of browsing for books online will help users to know whether the books they are looking for are available at the library or not, and if they are –where to find them.
* There will be no paperwork at all, due to the fact that every information will be stored on the cloud.
* The app will be secure because receipts and important information will be stored safely in the cloud.
* The chances of people not returning books that they had borrowed would be slim because everything will be recorded in the database.
* The app will be time conserving for both the users and librarians, librarians won’t have to do the paperwork since everything will be done electronically, which is faster and more convenient on the other hand the user won’t have to go look for books from library to library which is a time consumption.

**Expectations**

* We anticipate to eliminate the time consumption process of going through each and every library in order to find a specific book.
* We expect to have an application that will work in favor of both parties and make things simpler and run smoothly.