**Library Management Requirement Document (R\_01)**

**Introduction:**

The purpose of this project is to develop a library management system by using java code. It will involve Librarian to Log in and Log out and also allow Librarian to add books and it can maintain the records of issue and return of books. The project will have the following objectives: To Reducing costs of maintaining books, to consume less time to keep records of customers, to increases the revenue and to deliver the quality product and services. The project scope includes Log in, Log out add books, issue of books and return of books. The project will deliver the following: A new project for library management.

* To create a user-friendly Library Management System that allows librarian to easily Log in and Log out from system
* To provide Librarian with tracking of their Issue Books, Return Books, View books and Add Books
* To improve customer satisfaction by providing and maintaining the records of books and providing quick services.

|  |  |
| --- | --- |
| **Project Name:** | **Library Management System Project in Java** |
| **Abstract** | It’s a console -based project used with the Swing module to organize all the elements that work under library management. |
| **Language/s Used:** | Java |
| **IDE** | Eclipse IDE (Recommended) |
| **Python version (Recommended):** | **Java SE 1.8** |
| **Database:** | MySQL |
| **Type:** | Desktop Application |
| Recommended for | TECH BEE SCHOLARS |

**Stakeholder Requirements:**

* The project team will need to collaborate with the Library manager and the librarians to ensure that the project aligns with the overall goals and fulfill the all requirements
* The Developer department will be responsible for hosting and maintaining the application

**User Requirements:**

* The application should be intuitive and easy to use for users of all skill levels.
* The application should allow librarian to login and log out from the system
* The application should allow librarian to maintains all records of books such as add books, view books, issue books, report books.
* The application should allow Librarian to view records are stored in database

**System Requirements:**

* The application should be developed for both iOS and Android platforms
* The application should be compatible with smartphones and tablets
* Need a Database server, to store data
* The Application should be run in Windows 10, Ram 2GB, CPU 4.7GHZ, Etc..

**Constraints:**

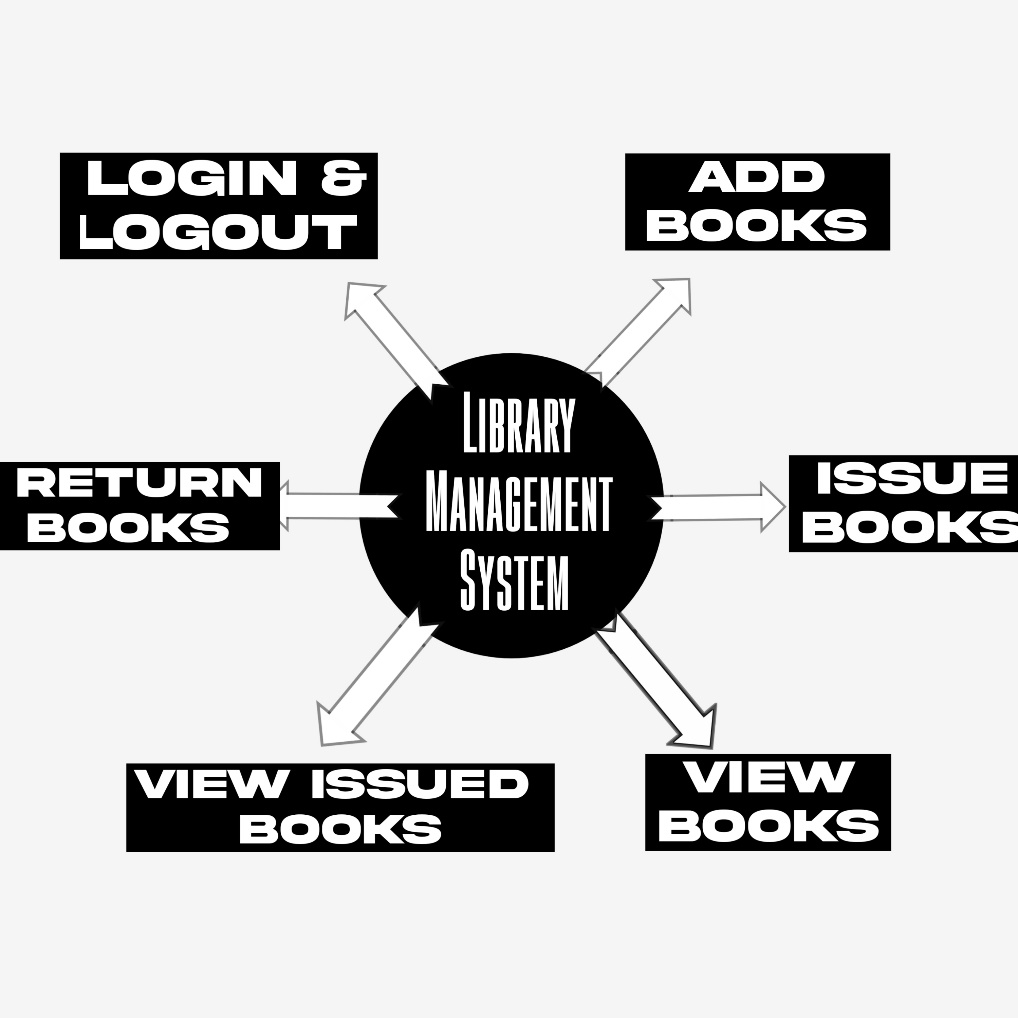
* The development of the application must be completed within a budget of $0
* The project must be completed within a timeline of 4 weeks

**Assumptions:**

* It is assumed that the project team will provide the necessary hosting and maintenance for the application.
* It is assumed that the Librarian and Library Manager should provide the details books to maintain records and information.

**Appendices:**

Diagrams of the user flow for the application



Sample data for library management system and librarian profiles

Username = Admin

Password = admin1234

Book ID = 01

Book Name = Marvel

Book Taken by = Venkat

Issued Date = 06/01/2023

Return Date = 11/01/2023