PROBLEM DEFINITION

The library management system is software, which automates the job of a admins and users

● Users will be able to see a list of books

● Admins will be able to add, remove or update information for a book

● Search books by name. Search functionality should support partial name matches and simple

mistakes in spelling.

SYSTEM REQUIREMENT SPECIFICATION

Purpose:

- The product is titled Library Management System.

- Users and admin can see list of books.

- Admin will be able to control add, remove or update issue.

- Book searching and partial name matches are required.

Overview:

- The SRS contains an analysis of the requirements necessary to help easy design.

- The overall description provides interface requirements for the Library Management System, product perspective, hardware interfaces, software interfaces, communication interface, memory constraints, product functions, user characteristics and other constraints.

- Succeeding pages illustrate the characteristics of typical naïve users accessing the system along with legal and functional constraints enforced that affect Library Management System in any fashion.

The Overall Specification

Product perspective:

Hardware interfaces

- **Hard disk**: The database connectivity requires a hardware configuration that is on-line. This makes it necessary to have a fast database system running on high rpm hard disk permitting complete data redundancy and back-up systems to support the primary goal of reliability.

- The system must interface with the standard output devise, keyboard and mouse to interact with this software.

Software interfaces:

- **Back End:** PyCharm 2020.1,Postman

Memory Constraints: No specific constraints on memory.

Operations: The software allows three modes of operations

- Enquire about the list and status of books.

- Admin will be able to control add, remove or update issue.

- Book searching and partial name matches are required.

Product Functions:

- Enquire about the availability and status of books

- Search the availability of book by entering the title of the book.

- Search the availability of book by entering the author of the book.

- Admin could be able to add, remove or update information for books.

User characteristics

- The intended users of this software need not have specific knowledge as to what is the internal operation of the system. Thus the end user is at a high level of abstraction that allows easier, faster operation and reduces the knowledge requirement of end user

- The Product is absolutely user friendly, so the intended users can be the naïve users.

- The product does not expect the user to possess any technical background. Any person who knows to use the mouse and the keyboard can successfully use this product.

Constraints

There is nothing about unique username and password, there are no options to
retrieve a password or username in case it is forgotten or lost hence the user is requited to remember or store the username and password.