

3. Library management System.

Problem Statement: Libraries are an essential part of an educational system, and managing them is a challenging task. Therefore, a computerized system is needed to manage the library's day to day operation effectively.

SRS

① User requirement:

1. user friendly interface to easy-to-use for both librarians & users
2. Book ~~search~~ Search functionality
3. Borrowing and returning books
4. Reservation functionality and notification
5. User account management - allow users to create & manage their accounts easily

② Software requirement:

1. Operating System - System should be compatible with different OS.
2. Database management system - need DBMS to store & manage user and book information.
3. Programming language - System should be developed using a programming language such as Java, Python or PHP
4. web development framework and web server
5. Version control system - System's source code can be managed using version control such as SVN, Git

③ Functional requirement

1. user management - Should allow to add, modify & delete users. The system should also be able to record user information

2. Book management and Borrowing management.

3. Reservation management - Should allow user to borrow books, ~~The system~~ Should allow user to reserve books that are not currently available

④ Non-functional requirement

1. Usability - the system should have a user-friendly interface that is easy to use for people
2. Performance - should be able to handle a large no. of users & book efficiently. Should also have a fast search functionality
3. Security and Compatibility

⑤ Domain requirement

1. user information management.
 2. Book information management and Borrowing management
 3. Reservation management, fine and penalty management
 4. library staff management, library branch management
 5. cataloging and classification.
 6. ~~lib~~ Interlibrary loan management.
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