**THE PROJECT REPORT**

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**Summary of understanding of project**

The project requires one to create a web based application that enables borrowing of books from a library enabling the borrower and librarian keep track of the borrowed books and their return dates.

The application clearly shows the available and unavailable books to the user and once a book is requested, its automatically tracked and provides return date.

The application provides a report of the available and unavailable books, the return date for books , as well as the penalties for the delay of return.

The application provides a search engine for books available using the title, publication date, subject area and author. It sends notification to borrower one day before return date.

With delay in return of three days, one incurs a penalty of 5000/= and delay of 10 days , one incurs a penalty of 15000/=.

**A STUDENT USER STORY**

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| As a student, I want to be able to access books which are available for borrowing and be able to make a decision on what to borrow |

**Acceptance**

Given am a student and was able to create an account:

1. The system must able to recognize me as I log in.
2. The system provides to access to available books using categories like authors.
3. The system must be able to provide one with an option on how to borrow and different conditions related.
4. With prior interest in the book, one must able to acquire the book from the library personnel.
5. The student must be provided with notifications for deadlines and new books as well as acknowledge return of the book before or after deadline.

**A LIBRARIAN USER STORY**

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| As a librarian, I want to be able to access and implement the library database. This is to track the books in use and update new books in to the system. |

**Acceptance**

Given am a registered librarian on to the system:

1. The system must be able to recognize me as an administrator who can make changes to the database.
2. I must be able to add new books into the database of the system.
3. I must be able to update and implement the borrowing and returning terms and conditions.
4. I should be provided with a report of books deadlines, books taken, books returned books with penalties.