PROJECT TOPIC: *Library Management System*

Scrum Master: Ms. Shelly Shiju George   Name: Aleena Ann Shaji

S3RMCA-A

Roll No: 10

REQUIREMENT GATHERING

1. Project Overview?

    The aim of Library Management System is to create efficient and user friendly platform for managing books, journals, magazines and will perform operations like adding books and users, update data, keeping track of borrowing and returning, generate reports.

2. To what extend the system is proposed for?

    - WhatsApp alert message for notifying the user about due date of the book before its return date.
    - Even after the overdue of the book and the book is not returned, then another WhatsApp alert message mentioning its fine amount and details of the book will be sent to the user.
    - User can pay fine online.
    - Book availability notification.
    - Teachers/Users can request for new books, journals etc.
    - Recommendation for books according to the history of books usage by the users.
    - User review, feedback and rating.

3. Specify the Viewers/Public which is to be involved in the System?

    - Librarian
    - Students
    - Staff
    - Dealers

4. List the Modules included in your System?

    (a) Registration – Will be done by Admin for Students & Staff.
    (b) Login – Students & Staff
    (c) Admin –
    - Adding books, journals, magazines
    - List of books, journals, magazines
    - List of borrowing, returning
    - Processing requests from students or staff
    - Maintaining the database

(d) Students & Staff
- Library Home – Search for books
- Issued book details
- Reservation Details & Status
- Library Alerts – Dues, Fines, Book recommendations
- Request for Study Material
- Online Fine Payment

(e) Logout
(f) Change Password
(g) About

5. Identify the users in your project?

(a) Admin/Librarian
(b) Students
(c) Staffs

6. Who owns the system?

College

7. System is related to which firm/industry/organization?

Academic Library - College Library

8. Details of person that you have contacted for data collection?

Mr. Tony Michael
Assistant Librarian, Central Library

Ms. Ushus Mathew
Assistant Librarian, Central Library

9. Questionnaire to collect details about the project?

1. What are the essential functions that you expect for?

The current system doesn't have functionalities such as:
- Book availability notification through WhatsApp Message Alert
- Another WhatsApp Alert message mentioning the overdue of the book and its fine amount details of the book.

- User can pay fine online
- Recommendation of books according to the history of books usage by the users
- Users can request for study materials.

2. How can we reserve a book?

   Users can make reservation for a book only when the whole set of that particular book is not available at the moment when they search for it, we have to wait until the books are returned.
   Users receives auto generated message alert regarding the availability of that book.

3. How can we inform users timely about the overdue of the book and its fine?

   Using auto-generated WhatsApp message alert we can timely notify the users.

4. Paying fine online

   Users have an option for paying their overdue fine in online by scanning the QR code from the library.

5. How can we request for new study materials?

   Users are provided with additional function request box, where the users can request for their new study material by mentioning its Title, Author name, Publisher etc.
   Admin receives the request from the user make order for that book.

6. How to notify the users when new books were added?

   Users receives an auto-generated WhatsApp message alert for the recommendation of the books according to the history of books usage by the users.

7. How to generate Barcode?

   Access number and call number of the books are formatted into Barcode which contains the complete details of the book.