P1. Topic and Objectives

Topic: Library Management System

Mission Statement

To design and implement a comprehensive **Library Management System** that streamlines the management of books, members, and transactions. The system aims to ensure efficient cataloging, borrowing, returning, and tracking of library resources while providing an intuitive interface for library staff and members.

Mission Objectives

1. Catalog Management:

Maintain a structured database of books and other resources, including information like titles, authors, genres, publication details, and availability status.

2. Member Management:

Store and manage member information, including personal details, membership types, and borrowing history.

3. Transaction Management:

Facilitate seamless borrowing and returning processes, with features to track due dates, overdue fines, and transaction histories.

4. Inventory Control:

Monitor the availability of books and resources in real-time, enabling efficient restocking and purchase decisions.

5. Search and Retrieval:

Provide advanced search functionalities for members and staff to quickly locate books or resources by title, author, genre, or other criteria.

6. Reservation System:

Allow members to reserve books that are currently checked out and notify them when the books are available.

7. Fine Management:

Automate fine calculation for overdue returns and provide easy fine payment options.

8. Reports and Analytics:

Generate detailed reports on borrowing trends, popular books, inventory status, and member activities to support decision-making.

Team Members

1) Name: Rutwik Ganagi

Email: ganagi.r@northeastern.edu

2) Name: Sachin Vishaul Baskar

Email: baskar.sa@northeastern.edu

3) Name: Ashwin Badamikar

Email: badamikar.a@northeastern.edu

4) Name: Dennis sharon

Email: cheruvathoorshaj.d@northeastern.edu

5) Name: Chetan Warad

Email: warad.c@northeastern.edu

Github Link: https://github.com/rutwikganagi2000/DMDD-Group-10