Introduction

Project Overview

As per our vision statement, our purpose for designing and creating this database application is to provide a modern and efficient library management system. Our system focuses not only on user accessibility but also operational efficiency for the library staff which helps improve patron satisfaction and reduce redundancies as well as abstract unnecessary complexities of organizing a vast and comprehensive literature repository.

Scope

The following features help encapsulate the major points of the scope of our library management system:

- **Comprehensive Relational Database** - Seamless management and digital storage of information about a large repository of various materials such as books, magazines, digital media, etc. along with meaningful relations that allow for intuitive information access pertaining to a multitude of usages.
- **Freemium Access Model** - Implementation of a dual-tier system in which the free tier provides easy lookup and search within the library repository, transaction tracking, account management, while the premium tier allows for unlimited transactions, enhanced notification systems, and deeper user analytics.
- **Advanced Search & Transaction System** - Prioritizing ease-of-access by providing a plethora of filters and categorization for patrons to quickly locate the exact material they desire to transact with. The check-out and material return processing workflows will be streamlined to reduce wait times and enhance the overall user experience.
- **Automated Notifications & Reporting** - Provide users with close tracking of due dates, overdue items, and item availability, and also record trends in borrowing of the items, popular resources, and management of inventory to help library staff with decision-making.
- **User-friendly Interfaces** - Package all the above mentioned features within an intuitive and pleasant user interface. The user can personalize their dashboards and through adjustable settings.

Glossary