LibVault

Project Vision

Version 1

2/16/2025

Vision Statement

Our project aims to design and implement a relational database system to perform library operations efficiently. This system will manage a collection of loanable items, enforce borrowing policies, track user memberships, and generate meaningful reports. By using structured data management with query functionality, our implementation will enhance the experience for both staff and clients.

Scope Statement

The Library Management system in LibVault will facilitate the organization of library resources, membership-based borrowing policies, automate tracking of loans and returns, and produce reports for data-driven decision-making. This system will also include a Data population with realistic records of books, magazines and members, covering ER modeling, relational schema, and SQL Database Creation. Some of the key functionalities will include Book & Digital Media Management, Membership Management, Borrowing & Returns and Reservations & Notifications.

Member Profiles

Name	Contact Info	Availability	Computing Experience	Programming Language Knowledge
Taha Khalid	tahanurkhalid@gmail.com	Mon-Fri (Evenings)	Windows, Linux, masOS	Python, SQL, JavaScript
Zonaid Prithu	zaprithu@gmail.com	Wed-Sun (Afternoons)	macOS, Windows	C++, SQL, Java
Gregory Markose	unniat03@gmail.com	Mon-Fri (Mornings)	Linux, macOS	JavaScript, HTML/CSS, SQL
Ethan Gao	ejgao11@gmail.com	Tue-Thu (Evenings)	Windows, macOS	Python, SQL, Bash
Matthew Sullivan	342mcs@gmail.com	Weekends	Linux, Windows	Java, SQL, Python
Saurav Renju	saurav.renju1@gmail.com	Flexible	macOS, Linux	C++, SQL, Python