

1. Vision Statement

The Library Database Management System (LDBMS) is developed to increase the productivity and organization of library management. The system will manage book and digital media management, membership management, borrowing processes, and reporting. By implementing a structured and automated process, the LDBMS will improve user experience, reduce administrative tasks, and ensure accurate record-keeping, providing a more accessible and easier-to-use library system.

2. Scope Statement

The project will include the design and development of a relational database system to manage the inventory of books, digital media, and magazines for a library, along with membership management. It will also include A borrowing and returning system with the implementation of borrowing limits and a reservation system for checked-out items. The system will also track due dates, overdue items, and available reservations, along with report generation, fine calculations, book availability, borrowing trends, and member activities.

3. Team Organization and Profiles

Team Name: **Table Flippers**

<u>Role</u>	<u>Role Description</u>
Team Administrator	Oversee project progress, ensure deadlines are met, and ensure clear communication and documentation.
Database Architect	Designs the overall database structure and schema, and ensures database efficiency.
Database Administrator	Manages/maintains the database system, ensures data integrity and security, and implements access controls.
Github Manager (GM)	Oversee version control and branch management, and enforce code reviews
Quality Assurance (QA)	Test for bugs and functionality and ensure development requirements are met.

Note: *These are overarching titles, it is expected that everyone will do a little bit of everything.*

Zain Ghosheh (Team Administrator)

- Email: zainghosheh1@ku.edu
- Availability: Mon 1pm-3pm Wed, Fri from 1:30pm to 5pm
- Platform Experience: Mac, Windows, Linux
- Programming Knowledge: Python, Java, Javascript, C++

Subat Qutlan (Database Architect)

- Email: ssubat0628@ku.edu
- Availability: Mon, Wed, Fri from 3pm to 5pm
- Platform Experience: Mac, Windows
- Programming Knowledge: Python, Java, Javascript

Mahgoub Husien (Database Administrator)

- Email: emman1775@ku.edu
- Availability: Mon, Wed, Fri from 3pm to 5pm
- Platform Experience: Mac
- Programming Knowledge: Python, Java, Javascript

Abdulaziz Ali (Github Manager)

- Email: abdulaziz.ali@ku.edu03
- Availability: Mon-Fri 3-6 pm
- Platform Experience: Window, Linux
- Programming Knowledge: SQL, Python

Abdulahi Mohamed (Quality Assurance)

- Email: amoham23@ku.edu
- Availability: Mon, Wed, Fri from 11am to 12pm, 1pm-5pm
- Platform Experience: Mac
- Programming Knowledge: Python, Java, Javascript, C++

5. GitHub Repository Management

The team will use GitHub to manage all project files and artifacts. All files and artifacts are to be stored in a clear file structure and will be kept up-to-date. Artifacts/documentation shall be labeled by a name and a version (ex. “artifactV1.pdf”). To ensure a smooth collaborative work environment, all features and artifacts shall only merged into the main branch of the project with a pull request and will be required to be approved by the QA and one other person who did not make the pull request.