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# **EECS 447 Project**

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## **Project Visions/Plan**

**Version 1.3**

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## Revision History

Date	Version	Description	Author
1/21/2025	1.1	Team members did the initial setup of the document, including formatting and finding a 6-person group.	Sophia Jacob, Kusuma Murthy, Anna Lin, Nimra Syed, Ella Nguyen, Nikka Vuong
2/1/2025	1.2	Team members established a company name: ASKNrEceive, or ASKNE. Members of ASKNE wrote out items of the document, including: Vision Statement, Scope Statement, Team Organization and Profiles, Project Meeting Log (Github Repo), and Github Repository Management	Sophia Jacob, Kusuma Murthy, Anna Lin, Nimra Syed, Ella Nguyen, Nikka Vuong
2/3/2025	1.3	Team members refined the document and fixed some errors.	Sophia Jacob, Kusuma Murthy, Anna Lin, Nimra Syed, Ella Nguyen, Nikka Vuong

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## Vision Statement

Local libraries often face challenges due to outdated systems or continuous manual processes for managing their book collections, tracking loans, and keeping up with membership policies. This leads to lost books, difficulty tracking overdue items, and problems managing book reservations. Our company ASKNrEceive (ASKNE), a Library Management System firm, is here to address these problems with our efficient Library Management System.

The system will allow users to borrow, return, and reserve books while enforcing library membership rules. It will also help the libraries' staff keep track of borrowed and overdue books, manage reservations, and generate reports on book usage. By using a structured relational database, ASKNrEceive will lead to smoother book circulation, reduce manual bookkeeping, and overall improve the library experience.

In essence, the goal of this project is to not only grow our members' technical skills in learning about the database development cycle but also to ensure that ASKNE creates a fully functional and scalable database software for libraries solving library organizational management.

## Scope Statement

This project's scope entails creating a full-scale Library Management System (LMS), powered by a relational database. ASKNE would like to create a reporting style that helps the library determine popular books, member's favorite genres, and more quantifiable statistics to help maintain a growing library. This project will be responsible for managing the library's database operations such as adding new books as parts of entries, cleaning the database by removing and editing the borrow and return status of loanable items, and finally creating comprehensive reports for the Library admins and staff.

Some features that are intended for the final product include tracking books and members based on a variety of attributes like author names, item IDs, publication dates, and more. Users can view the database for available books, while library staff can edit and maintain the database.

As for the technical aspect of this project, ASKNE will be utilizing Structured Query Language (SQL) as the main tool used for searching the database and will create various tables that will be structured in a Relational database format.

Thus, our scope statement is as follows: ASKNE, through the use of MySQL and other tools, will deliver an extensive database backed in software to provide better insights and organization to the library on the books, magazines, and other content they house.

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## Project Deliverables:

- 01 Project Visions/Plan
- 02 Database Requirements
- 03 Conceptual Modeling
- 04 Logical Relational Model
- 05 Physical Design Database
- 06 Project Demonstration
- 07 Glossary

## Team Organization and Profile

Member roles in ASKRceive include Project Manager Sophia Jacob, Software Developer Anna Lin, Solutions Architect Kusuma Murthy, Database Designer Nimra Syed, Scrum Master Nikka Vuong, and Quality Assurance Ella Nguyen.



**Sophia Jacob**  
Project Manager  
[sophiajacob@ku.edu](mailto:sophiajacob@ku.edu)  
913-708-5764

### Responsible For:

- Setting up and managing team meetings.
- Ensuring that project deliverables are submitted in a timely manner and deadlines are met.
- Create a planned agenda for meetings that adhere to the guidelines of the project.
- Collaborate with other team members to complete project artifacts/deliverables, such as the development of the relational database and the backend code.
- Streamline communication between the TA, Professor, and team members. Main point of contact.

### Contact Information:

- Meeting Availability: Monday, Wednesday, Friday from 4:30 PM onwards, Tuesday/Thursday from 6:30 PM onwards

### Expertise:

- Tools/Technologies: Python, C++, C, SQL, HTML
- Soft Skills: Organizational skills, Leadership, Communication, Integrity, Problem-Solving

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**Anna Lin**  
*Software Developer*  
[anna.lin@ku.edu](mailto:anna.lin@ku.edu)  
 316-250-1568

#### **Responsible For:**

- Responsible for developing the overarching logic for managing the data in the database with the Database Designer.
- Communicate with the team to produce clean and effective code.
- Ensure that the solution meets the needs given by the solution architect.
- Collaborates with QA Engineer to ensure the database's quality and usability.

#### **Contact Information:**

- Meeting Availability: Monday, Wednesday, Friday from 4:30 PM onwards

#### **Expertise:**

- Tools/Technologies: Python, C++, C, HTML, Figma
- Soft Skills: Organization, Communication, Creativity



**Nimra Syed**  
*Database Designer*  
[nimrasyed@ku.edu](mailto:nimrasyed@ku.edu)  
 913-749-7148

#### **Responsible For:**

- Foster the development of the relational database and include core functionalities of the product.
- Ensure that the development of the database meets the requirements outlined in the scope of the project, as well as security features, design management, and more.
- Designing the database with the end-user in mind, allowing for a clean UI experience.
- Collaborate with the QA Engineer and the Software Developer to create a robust database that is thoroughly vetted.

#### **Contact Information:**

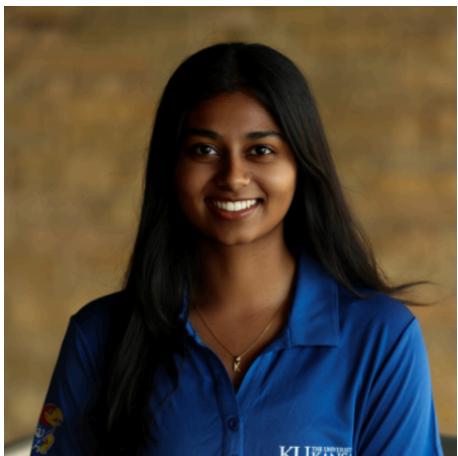
- Meeting Availability: Monday, Wednesday, Friday from 4:30 - 6:00 PM

#### **Expertise:**

- Tools/Technologies: Python, MySQL/MariaDB, Database Design

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- Soft Skills: Communication, Organization, Management, Creative
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**Kusuma Murthy**  
Solutions Architect  
[kusuma.s.murthy@ku.edu](mailto:kusuma.s.murthy@ku.edu)  
913-703-8378

#### Responsible For:

- Design systems to address the business needs.
- Establish the project features and attributes.
- Communicate with team members and stakeholders to determine the needs and deliverables of the system.
- Define the requirements of the system and provide specifications
- Design the system to be applicable to the domain's tech stack and IT environment

#### Contact Information:

- Meeting Availability: Wednesday/Friday from 4:30 - 6:00 PM

#### Expertise:

- Tools/Technologies: Python, C#, MySQL/MariaDB, Database Design, SQL Server Manager
- Soft Skills: Communication, Organization, Management



**Ella Nguyen**  
Quality Assurance Engineer  
[ellanguyen37@ku.edu](mailto:ellanguyen37@ku.edu)

#### Responsible For:

- Identifying and setting requirements according to the requirements document.
- Establishing project features and attributes. Making sure system requirements are met.
- Work with the Scrum Master to ensure that the team is within the scope of the requirements established.
- Collaborating with other team members to help meet project artifact/deliverable deadlines.

#### Contact Information:

- Meeting Availability: Wednesday/Friday from 4:30 - 6:00 PM

#### Expertise:

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913-337-1876

- Tools/Technologies: Python, C, C++, C#, MySQL, JavaScript
  - Soft Skills: Adaptability, Teamwork, Organization, Management
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**Nikka Vuong**  
Scrum Master  
[nikkavuong@ku.edu](mailto:nikkavuong@ku.edu)

785-979-0745

#### Responsible For:

- Taking and posting notes for each meeting.
- Organize team member availability to ensure attendance at meetings.
- Manages the GitHub page.
- Identify and report possible improvements on the project.
- Assist the Software Developer to produce and structure the program.
- Resolve any team conflicts.

#### Contact Information:

- Meeting Availability: Wednesday/Friday from 4:30 - 6:30 PM

#### Expertise:

- Tools/Technologies: Python, C, C++
  - Soft Skills: Teamwork, Communication, Creativity
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## Meeting Schedule

Name of Project Part	Start By	Finish By (3-7 days before due)	Due Date
Part 1: Project Vision/Plans	January 31st	February 7th	February 16th
Part 2: Database Requirements	February 7th	February 21st	March 2nd
Part 3: Conceptual Modeling	February 21st	March 7th	March 16th
Part 4: Logical Relational Model	March 7th	March 21st	March 30th

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Part 5: Physical Database Design	March 21st	April 18th	April 27th
Part 6: Project Demonstration	April 18th	April 25th	May 4th

**\*\* Team members meet every Friday/Saturday afternoon online. During implementation, this may change to in-person meetings. Methods for task allocation and tracking will include a detailed meeting log description for each member. The Project Manager will follow up with individuals, as needed.**

## Project Meeting Log (GitHub Repo)

**\*\* Note: All our [Project Meeting Logs](#) will be housed in the GitHub Repository on the [Wiki Page](#). Please reference it as needed. Our [Team Profile](#) is also on the Wiki Page.**

Date: February 1, 2025

Time: 3:00 - 4:00 PM

Location: Discord Meeting

Objective: Discuss and define the project vision and scope.

Team Members Present: Anna, Ella, Kusuma, Nikka, Nimra, Sophia

Task Completion Confirmation:

- Anna, Ella, Kusuma, Nikka, Nimra: Upload profile and bio (completed)

This Session:

- Discussed and completed the Part 1: Project Visions/Plan
- Brainstormed potential queries and reports users may be interested in (used the project description as a guide)

Tasks Allocated:

- Anna: Complete the GitHub Repository Management description.
- Ella: Complete Team Organization and Profile description.
- Kusuma: Complete Scope Statement.
- Nikka: Complete Project Meeting Log. Set up Wiki page in the GitHub Repository.
- Nimra: Complete Vision Statement.
- Sophia: Complete Scope Statement.

Follow-Up Actions:

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Scheduled the next meeting on February 8, 2025, at 3:00 PM to further develop our database idea.

## GitHub Repository Management

All members of the ASKNrEceive team will regularly manage, update, and commit to the GitHub Repository. The repository will be publicly available for view and accessed here:

[Library Database Management Project](#).

**\*\* Note: All our [Project Meeting Logs](#) will be housed in the GitHub Repository on the [Wiki Page](#). Please reference it as needed. Our [Team Profile](#) is also on the Wiki Page.**