

EECS 447 Project Vision/Plan

Vision Statement: We are designing a library database product to gain experience in developing, implementing, and maintaining a database for different items and relationships such as borrowed books, memberships, reports, and others. The project aims to simulate a real-world experience of having to create a database to fit specific needs.

Scope Statement: Our library database will integrate all required features from the project description including books and their respective attributes (ISBN, author, year, genre, etc.) so that various media types can be added, deleted, and updated from the database. There will also be a system to manage borrowers and memberships of different types with members categorized by age, education, and other qualifications that might provide benefits. There will be constraints in place to regulate how many books clients can check out, how fees are decided, how exclusive media might have more restrictions, etc. There will also be measures in place for reserving books that are checked out, tracking books that are out with timestamps, and notifications for those who have books due soon/overdue and reserved items that are ready to be picked up. There will also be a feature to generate reports for calculations, what items are available, borrowing trends, and member activities.

Team Organization and Profiles:

Spencer Addis

Contact: spenceraddis@ku.edu

Availability: Monday after 5p, Tuesday after 6p, Wednesday after 1p, Friday after 1p

Computing platform experience: Windows, macOS, a little Linux

Programming language: Python, C, C++, Rust, HTML/CSS, Javascript

Role: Quality assurance engineer

John Mosley

Contact: jmosley@ku.edu

Availability: Mondays and Wednesdays after 1 pm, Tuesdays and Thursdays after 2 pm,

Fridays after 11 am

Computing platform experience:

Operating Systems: Windows, Linux, some macOS

Cloud Platforms: AWS

Version Control: Git, Github

Programming language: Python, C, C++, C#, Rust, Javascript, HTML/CSS

Role: Team Administrator

Jared Harrington

Contact: jred2401@ku.edu

Availability: Mondays, Wednesdays, and Fridays any time. Tuesdays and Thursdays after 2 pm

Computing platform experience: Windows, Linux, and a little macOS

Programming language: Python, C, C++, C++, HTML/CSS, JavaScript

Role: Meeting Recorder

Evans Chigweshe

Contact: chigwesheevanstinash@gmail.com

Availability: Monday, and Wednesday from 1 pm-4:30 pm and after 7 pm. Sunday and Saturday after 3:30 pm

Computing platform experience: Windows, Linux, and macOS.

Version Control: Git, Github

Programming language: Python, C/C++, HTML, JavaScript, and Haskell.

Role: Team Database Designer

Brisa Andrade

Contact: bandrade@ku.edu

Availability: MW: 10 am - 1 pm, F: 10 - 2 pm, Sun: 10 am - 1 pm, 8 pm onwards

Computing platform experience: Windows and Linux

Programming language: C, C++, C#, Python, Haskell, HTML/ CSS, Javascript

Role: Database Developer

Project Meeting Log:

Date: February 15, 2025

Time: 5:10 PM - 7:00 PM

Location: Virtual via Discord

Objective: Start documentation for the project, discuss project vision, brainstorm project requirements, assign roles to each member, and allocate tasks to each member.

Team Members Present: Spencer Addis, John Mosley, Evans Chigweshe, Jared Harrington

Task Completion Confirmation:

- Spencer: Created project vision/plan document (completed)
- John: Created Team meeting log (completed)
- Evans: Edited project vision/plan document (completed)
- Jared: Edited project vision/plan document (completed)
- Brisa: Edited project vision/plan document (completed)

Brainstorming Session:

- Discussed the scope and vision of the project, and how we plan to move forward
- Discussed how to assign roles to members as well as allocate tasks

Tasks Allocated:

- All members: Brainstorm the functional requirements of the database – what functions are essential to the database, what kinds of queries/reports should the database be capable of, and what are the main data entities for this database?
- Spencer: Determine the stakeholders for this project and document any
- John: Determine the software requirements of the project and document them

- Evans: Determine the hardware requirements of the project and document them
- Jared: Brainstorm and document the purpose of the project as well as its constraints
- Brisa: Brainstorm and document the high-level requirements for the project

Follow-up Actions:

Schedule the next meeting for February 19, 2025 at 3:00pm to brainstorm and document the requirements for the project.