Vision Statement

The goal of this project is to gain experience with designing and implementing a database system by creating a database system intended for a library. The professor will stand in as the client for which the project is being developed. The project should be completed to a professional standard, including regular meetings, thorough modelling, record keeping, and team coordination.

Scope Statement

The project will be completed in several different phases, tracking the level of completion of the database.

Domain/Requirements

The domain needs to be well defined and clear to every team member. The features needed for a complete product also need to be made clear.

Conceptual Design

An entity-relationship diagram needs to be completed, laying out what entities and relationship sets are present. The model needs to be clearly illustrated.

Logical Design

Convert the E-R model into a set of relations, making sure referential integrity is maintained.

Physical Design

Use DDL to create the database.

Data Population

Randomly generate a realistic set of data and ensure that all constraints are maintained.

Team Organization

Each member of the team has an assigned role with responsibilities. Members are expected to complete their assigned tasks in addition to implementing the project. The roles are as follows:

Team Lead: Managing the GitHub repo, submitting on Canvas, and communicating with the professor.

Assistant Team Lead: Help the Team Lead with performing their functions.

Meeting Recorder: Keep a log of decisions made during weekly meetings. Take attendance at the beginning of each meeting.

QA Engineer: Responsible for testing functionality of the product and ensuring that every feature is working properly.

Model Creator: In charge of generating the models and schemas used for team reference.

Communication Coordinator: Coordinate meeting locations and ensure that each team member is informed about the project.

Member Profiles

MJ McGee
mj.mcgee@ku.edu
Availability: MWF 11am-1pm, Thursday 11am-2pm
Project Role: Communication Coordinator
Platform: Windows
Experience: Python, C, C#, JavaScript, HTML, CSS

Isaac Papineau

l200p448@ku.edu
Availability: MWF 12pm-5pm
Project Role: Model Creator
Platform: Windows
Experience: Python, C, C++, PSpice

Dylan Sailors
d029s738@ku.edu
Availability: Monday 1pm-5pm, Wednesday 12:15pm-2pm, TuesThurs 11am-2:30pm, Friday after 12:15pm
Project Role: Meeting Recorder
Platform: Windows/Mac
Experience: Python, C, C++, Java, HTML, Haskell

Omar Faruque

Omar@ku.edu
Availability: Monday: 8 am-11 am, 2 pm - 9pm, Tuesday: 3 pm - 9 pm , Wednesday: 8 am-11 am, 2 pm - 9pm, Thursday :   3 pm - 9 pm, Friday: 8am-12pm, 2:30 pm - 9 pm
Project Role: Team lead
Platform: Mac
Experience: Python, C++, CSS, HTML

Bisshoy Bhattacharjee
Bisshoy.b@ku.edu
Availability: Tuesday Thursday 2-4, Any time after 5 PM on other days with notice
Project Role: Assistant Team Lead
Platform: Windows
Experience: Python, C++, C, HTML

Jared Harrington
Jred2401@ku.edu
Availability: MW after 4pm, Tuesday/Thursday 11am-1pm and after 4pm, Friday all day.

Project Role: QA Engineer
Platform: Windows
Experience: Python, C, C++, HTML, JavaScript, CSS