

Vision Statement

The purpose of this project is to design a database system for a small library that will allow for improved scalability, item tracking, membership tracking, borrow tracking, and report generation. Our system should provide all of these services with a simple user-friendly UI. Through this project, we aim to gain practical experience in database design, implementation, and management.

Scope Statement

The system will support efficient cataloging and tracking of loanable items, enforce borrowing rules, and generate insightful reports to aid library management. The project provides hands-on experience with database development, including domain modeling, conceptual and logical design, and physical implementation. The library database system will include the following functionalities: item management, membership management, borrowing and returning facilitation, as well as query and report generation. It will do this while maintaining the integrity of the database.

In Scope:

- Database Design
 - Domain modeling
 - 3 Schema
- Web-based User Interface
 - User/Admin differentiation
- Database Security
 - Role-based access
- Documentation

Out of Scope:

- Desktop User Interface
 - Advanced Query Selections
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Team Organization

Team Name: Database Dynamos

Profiles:

Cole Charpentier

Role: Meeting Secretary, Developer

Phone Number: 913-850-4046

Email: cwcharpentier@ku.edu

Computing Platform Experience: Windows, Linux

Programming Language Knowledge: Proficient in Python.

Familiar with Java, C, and C++. Minimal experience in Haskell and SQL.

Availability:

	Sun.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.
8:00 am							
9:00 am							
10:00 am							
11:00 am							
12:00 pm							
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2:00 pm							
3:00 pm							
4:00 pm							
5:00 pm							
6:00 pm							

Cole DuBois

Role: Quality Assurance Lead, Developer

Phone Number: (316) 300-9384

Email: duboiscole@ku.edu

Computing Platform Experience: MacOS, Linux, Windows

Programming Language Knowledge: Python, C, C++, HTML, JavaScript, Typescript, SQL

Availability:

	Sun.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.
8:00 am							
9:00 am							
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12:00 pm							
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6:00 pm							

Blake Ebner

Role: Lead Debugger, Developer

Phone Number: 913-747-5234

Email: beferb@ymail.com or b939e266@ku.edu

Computing Platform Experience: Windows and a bit of Linux

Programming Language Knowledge: pretty good at Python,
know a bit about C, C++, Javascript, HTML

Availability:

	Sun.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.
8:00 am							
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6:00 pm							

Riley Faith England

Role: Team Manager, Developer

Phone Number: (913)-484-5029

Email: rileyfaithengland@ku.edu

Computing Platform Experience: Windows, Linux, MacOS

Programming Language Knowledge: Proficient : Python,

Familiar with HTML, C++, C, and JavaScript

Availability:

	Sun.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.
8:00 am							
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6:00 pm							

Jackson C Yanek

Role: Team Administrator, Developer

Phone Number: 785-764-2020

Email: yanekjackson@ku.edu

Computing Platform Experience: Windows, Linux, MacOS

Programming Language Knowledge: In descending order:

Python, C, C++, SQL (Familiar with common commands)

Availability:

	Sun.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.
8:00 am							
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Meeting Log

Standard Meeting Location: Virtually via Discord server

Standard Meeting Time: 12:00 pm

Meeting Frequency: Weekly

Task Allocation and Tracking: At each meeting, we will review previous task assignments and their progress. We may also assign new tasks and update deadlines. Any changes and/or updates will be recorded in the meeting log.

Meeting Log Template:

<p>Date:</p> <p>Time:</p> <p>Location:</p> <p>Objective:</p> <p>Team Members Present:</p> <p>Task Completion Confirmation:</p> <ul style="list-style-type: none">• Cole Charpentier:• Cole A DuBois:• Blake Ebner:• Riley Faith England:• Jackson C Yanek: <p>Tasks Allocated:</p> <ul style="list-style-type: none">• Cole Charpentier:• Cole A DuBois:• Blake Ebner:• Riley Faith England:• Jackson C Yanek: <p>Additional Notes:</p>

GitHub Repository Management

Our team will use GitHub as the central repository for all project artifacts, ensuring version control, collaboration, and organization. The repository will contain the project deliverables as well as meeting logs. It will also have database design files, SQL scripts, and any related resources.
