Habib University
shaping futures

CS355 – Database Project Proposal Form

Section 1: Metadata

to be filled by the student

1.1. Project Information to be filled by the student

Title: Library Management System	
Section: L5	Instructor: Saba Saeed

1.2. Student(s) Information

Name: Simal Anjum	ID: sa07716
Section: L5	Batch: 2025

Name: Muhammad Talha Salani	ID: ms07725
Section: L5	Batch: 2025

Name: N/A	ID: N/A
Section: N/A	Batch: N/A

Section 2: The Project

to be filled by the student

2.1. Project Description: *Please provide a brief introduction of the project including its scope.*

Library Management System!

The project that we will work on would cater to the problems faced by librarians by keeping a track on the issuance (issued date, issued to), return date, and book status (borrowed, available).

This system would also give the librarian the ability to flag a user, and limit him/her from borrowing a book again, unless the flag is lifted.

Furthermore, the librarian can log in with their login credentials and be able to access the conditions mentioned above.

The user can also login with his credentials, to check the number of books that he has borrowed and the date at which he has to return them back.

2.2 Functional Requirements

This section describes each function/feature provided by your system. These functions are logically grouped into modules based on their purposes. The users in your system must be categorized such as client, customer or administrator etc. These users will be accessing the database with the level of access that they are authorized with.

Module 1: Registrations

• Function 1: Register an account (User and Librarian individually)

The system would allow the user and the librarian to have their respective accounts, which would limit their access to the database. For example, the librarian would have an extended command over the database, and would be able to manipulate data, and flag users etc. Whereas, the user would only have the ability to view the books that he has borrowed, and the date at which he has to return them back.

-Function 1a:

Register as a Librarian!

This would lead the librarian/admin to a login/signup page, where they would register an account/access their account by entering their credentials.

-Function 1b:

Register as a User!

This would lead the user to a login/signup page, where the user would then enter his/her login/signup credentials.

Module 2: Books Inventory!

The librarian can make the following edits:

• Function 1: Add new books to the list of books and Delete books from the inventory.

• Function 2: Change Book Status i.e., be able to mark if the book has been borrowed or if it is available.

• Function 3: Edit Book Details i.e., the name of the book, author, type of the book (category: journal, reference, text book, story book),

Module 3: Admin Duties!

• Function 1: The admin can flag users if their books are overdue or if they

• Function 2: Change book status i.e. mark if a book has been borrowed and add the details of the borrower..

2.3. Planned Schedule: *Kindly list the start/end dates and the timeline for the achievement of any intermediate milestones and the expected contribution to be made by the participant(s).*

1- By the end of 6th week (tentatively), get done with the GUI part, and how the overall user experience would be like.

2- By the end of week 7 (tentatively), make the ERD!

3- By the end of 9th week (tentatively), get done with the backend part (i-e making the database etc)

4- By the end of week 11 (tentatively), get done with the integration of the front and backend.

Contribution of group members:

Muhammad Talha Salani	Sorting out the backend (Microsoft SQL Server, and integrating the front and backend.
Simal Anjum	Sorting out the frontend (C#), and integrating the front and backend.

2.4. Technology Stack: *Kindly identify the language and database management system that will be used to build this application. Also identify whether it is going to be a desktop application, mobile application, or web application.*

Type of Application: Desktop Application

Database Management System: Microsoft SQL server

GUI: C# (Visual Studio)

Project Grading Rubric

Project weightage: 20% (of course grade)

Grade breakdown

Proposal	15%
Interim ERD	20%
Interim Demo	25%
Final Presentation and Submission	40%
Total	**100%**

Project Proposal

Category	Description	Weightage
Proposal document	The overall quality of the submitted document	5%
Useability/Novelty of Idea	How good and useful the project will be.	5%
Features	List of features are defined adequately or not.	3%
System's Users	The users of the system are identified appropriately or not.	2%
Total		**15%**