

# BIBLIO

## LIBRARY MANAGEMENT SYSTEM

*Proposal: We will create a Library Management System.*

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### TITLE: BIBLIO

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**CRUD** operation implementations, along with project requirements, are marked in parentheses and *italics*, where applicable. Possible **entities** are marked in **bold lettering**.

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### INTRODUCTION:

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The project will be a Library Management System, where either a **User** (registered or non registered) or an **Admin** (Librarian) will be able to log in (*Authentication*). The User will be allowed to browse from the available database of **books**. They can be sorted by category, or date added (*Read*). A User can borrow books for an unlimited time (*Create, Update*). Each book will have one copy only, to help with ease of building of the database and website. The user view will also display which books are left to be returned (*Read, Unique Functionality*). The User will have to mark them as returned on their own (*Update, Delete*). The user may also submit a request for books that they want to see in the Library, by filling out a specific form (*Create, Update, Unique Functionality*). The Admin will be able to log in and add new books (*Add*). They will also be able to supervise book requests, and add new books. They shall be able to see the info of either all, or any single user via buttons (*Read*). They may also delete books from the library's database (*Delete*). Thus we get two distinct views (*View Separation*).

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### TECHNOLOGIES:

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**Front-End:** We will be utilizing **HTML**, **CSS**, **JS**, with the **React** Framework.  
**Back-End:** We shall use **Node JS**, with the **Express** Framework.  
**Database:** We will use **MySQL**, and doing database management with **phpMyAdmin**.  
**Project Management:** **Git** shall be used for version control, along with **GitHub** for easy collaboration and tracking of history.

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### DISTRIBUTION:

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**Adib Ar Rahman Khan: Front End**  
**Aurongojeb Lishad: Back End**  
**Both: Database**

Although the front end and back end will be distributed among the two of us, we plan on sharing the workload equally as we both hope to learn Full Stack development by using this project as a means.