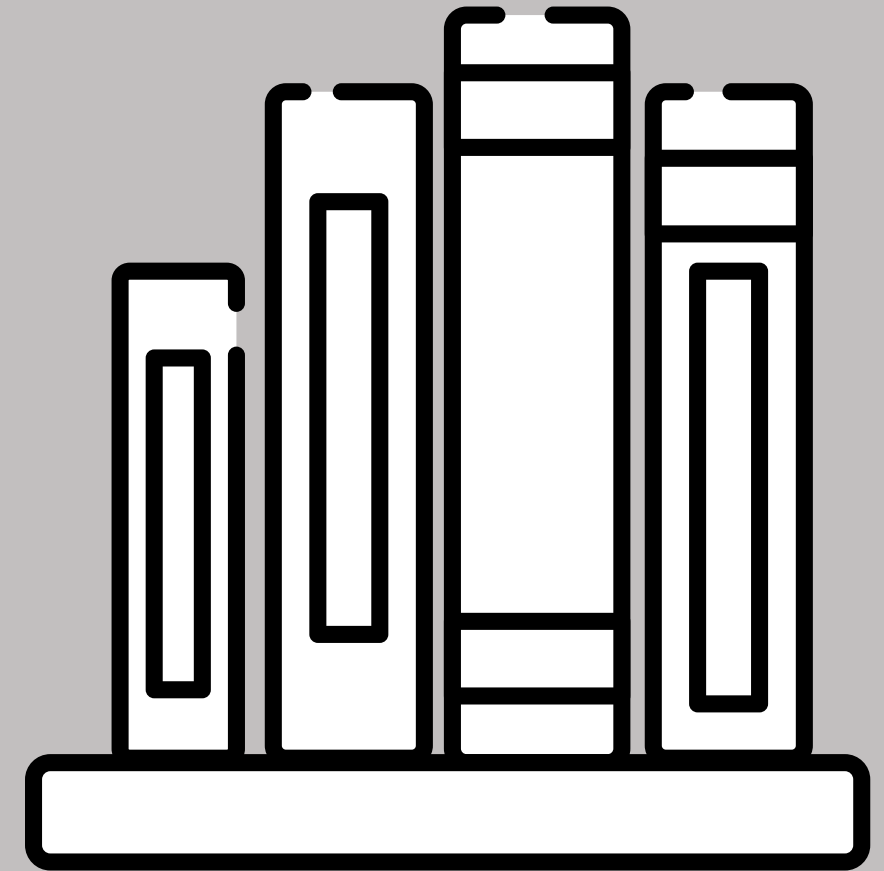


# LIBRO

## Project Proposal CSE 4508

An intuitive library management system for cataloging, borrowing, and returning books with ease.



# ABOUT US

## Team Databaes

### Team Members

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Nayeem Fardin

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210041141

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Nafis Fuad Shahid

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210041153

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Maroof Ahmed

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200041129

# CONTENT

**01**

ABOUT US

**02**

PROJECT OVERVIEW

**03**

KEY DEVELOPMENTS

**04**

ROLE OF RDB

**05**

ENTITY-RELATIONSHIP DIAGRAM

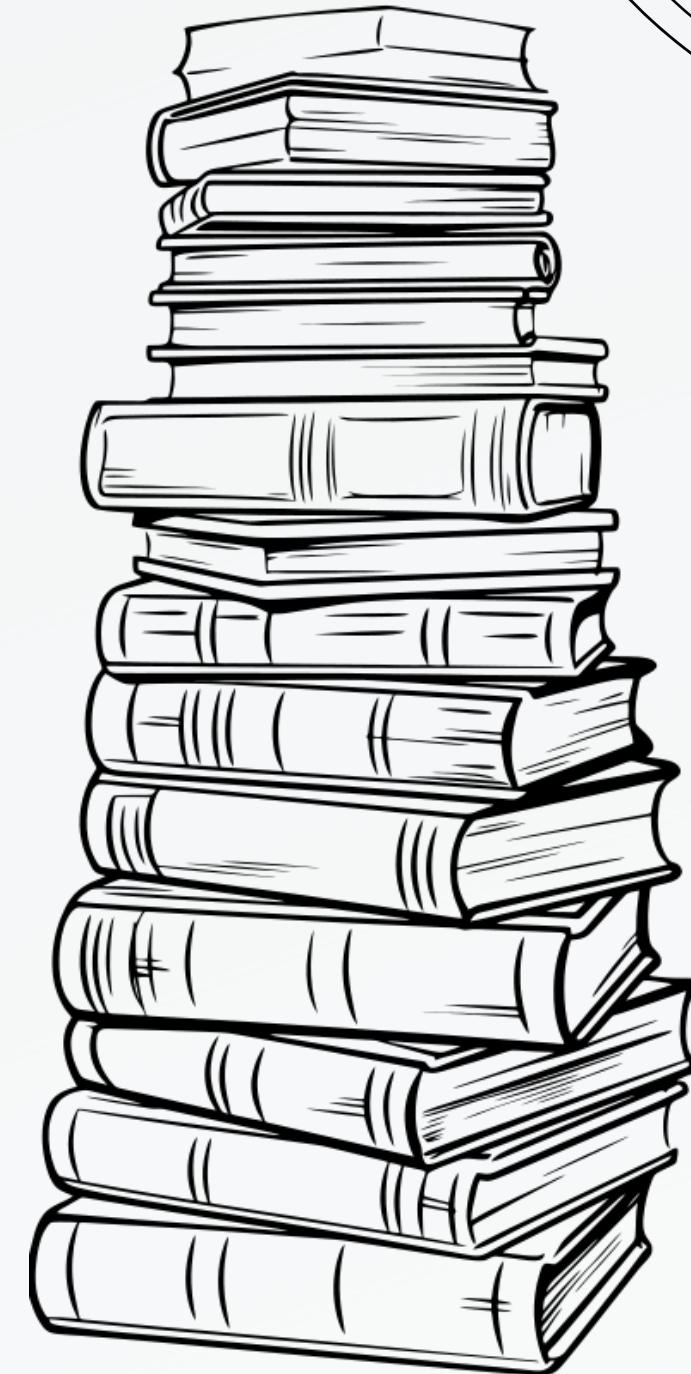
**06**

TECHNICAL CHALLENGES

## OUR SERVICES

# What We Do

LIBRO will be fully admin-controlled. Administrators will have the ability to manage the catalog of books and student records, issue and return books, and track borrowing history along with overdue records.



# KEY DEVELOPMENTS



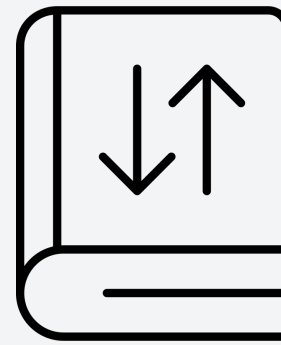
**01**

BOOK  
RECORD  
MANAGEMENT



**02**

STUDENT  
RECORD  
MANAGEMENT



**03**

ISSUING  
BOOKS &  
RETURNING  
BOOKS



**04**

BORROWING  
RECORDS



**05**

OVERDUE  
TRACKING

# ROLE OF RDB

**01**

**PREVENT DATA  
REDUNDANCY**

**02**

**AUTOMATE KEY  
SYSTEM  
OPERATIONS**

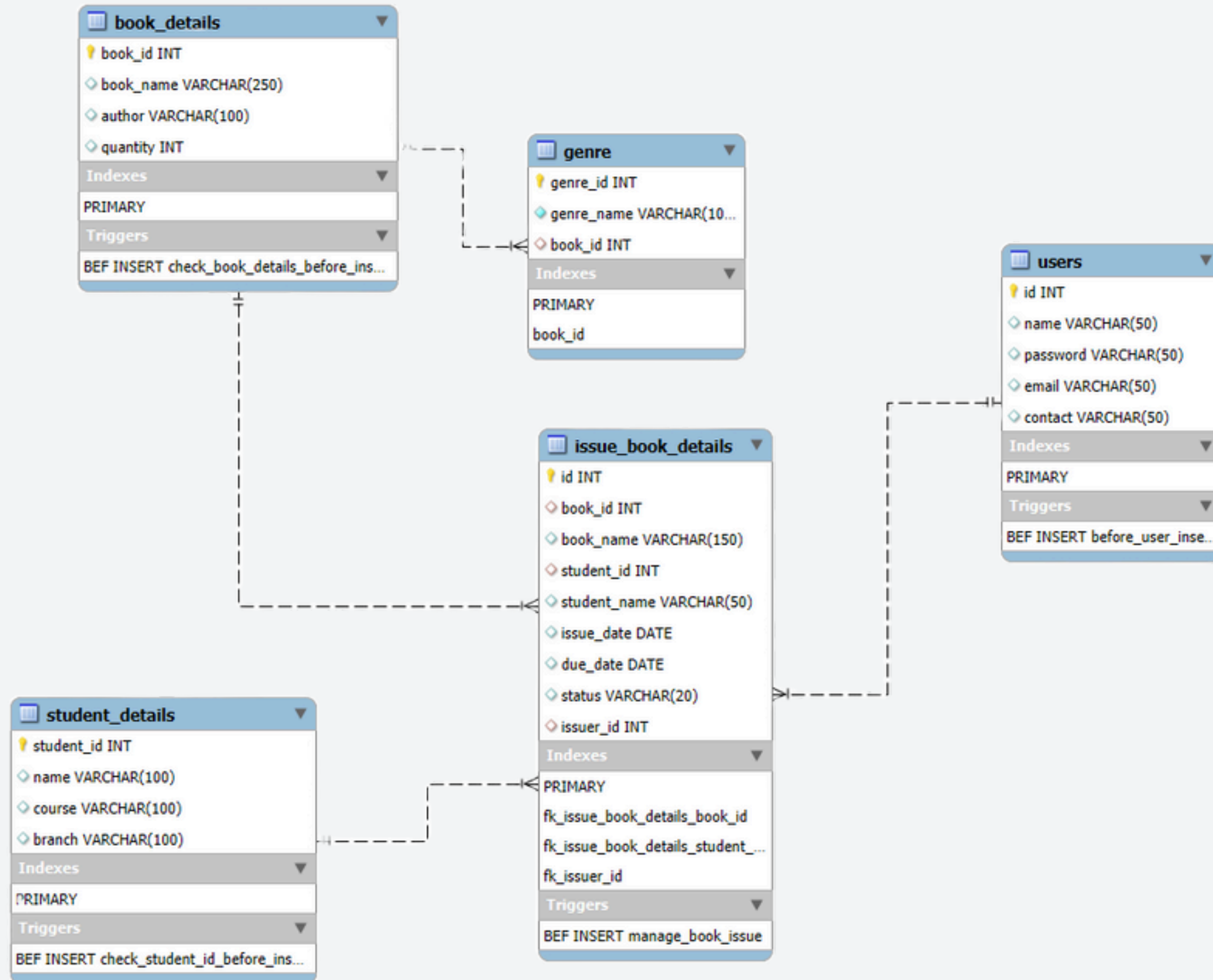
**03**

**ENFORCE DATA  
INTEGRITY  
CONSTRAINTS**

**04**

**RETRIEVE DATA  
FROM MULTIPLE  
TABLES FOR  
REPORTING**

# ERD





# TECHNICAL CHALLENGES



Ensuring Data Integrity  
Across Multiple Tables

Handling Duplicate  
Data and User  
Validation

Structuring queries to  
counter SQL injections



# Thank You!

