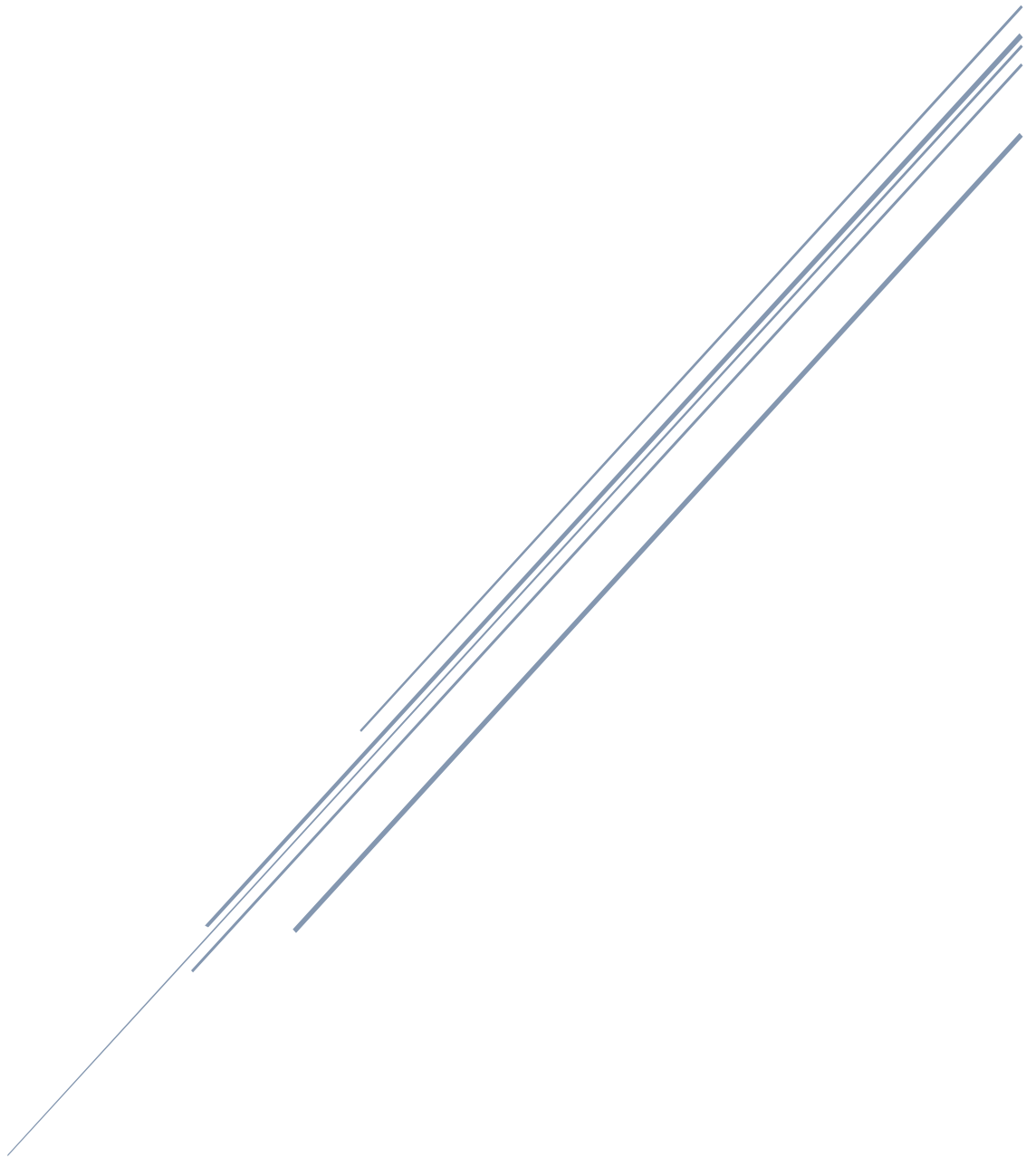


LIBRARY MANEGMENT SYSTEM



Vishan Dias

Functional and Non-functional requirements

Functional Requirements

- Member management
- Book management
- Reservation System
- Notification

Non- Functional Requirements

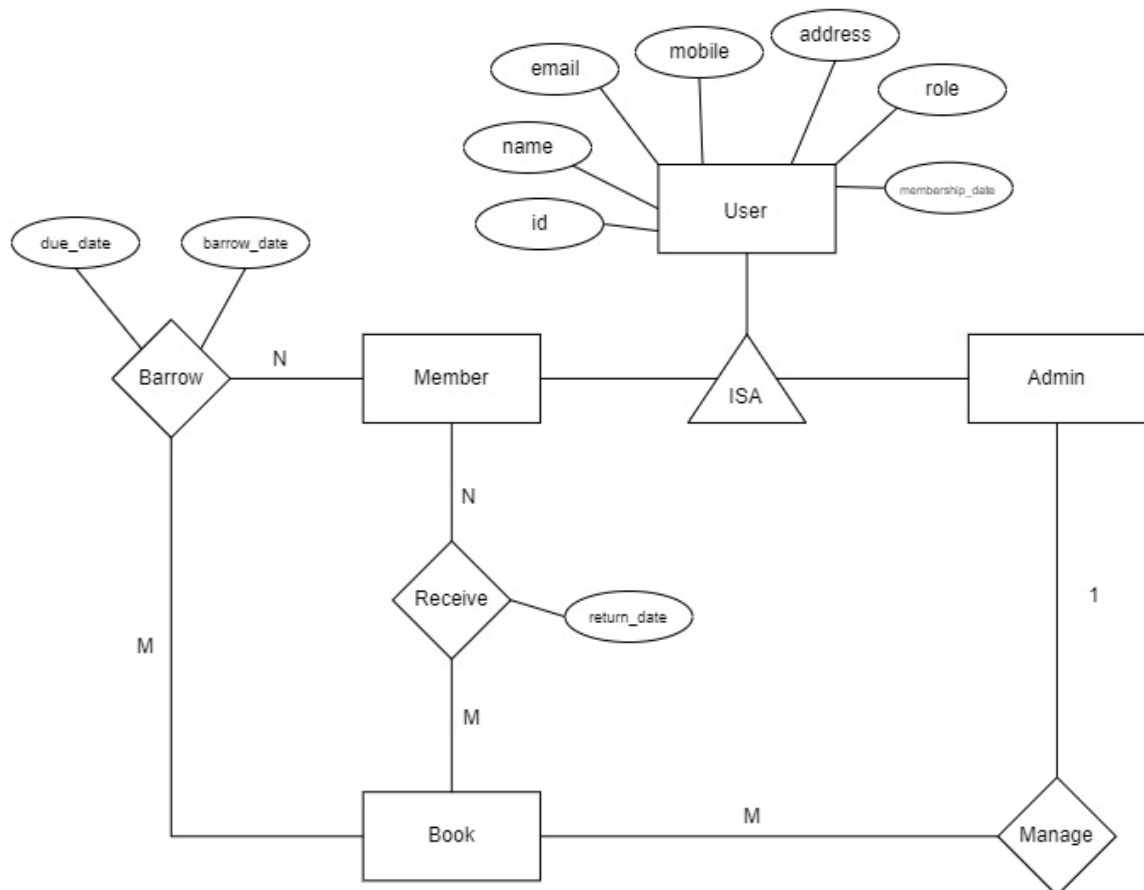
- Performance
- Usability
- Security
- Maintainability
- Compatibility

Diagrams

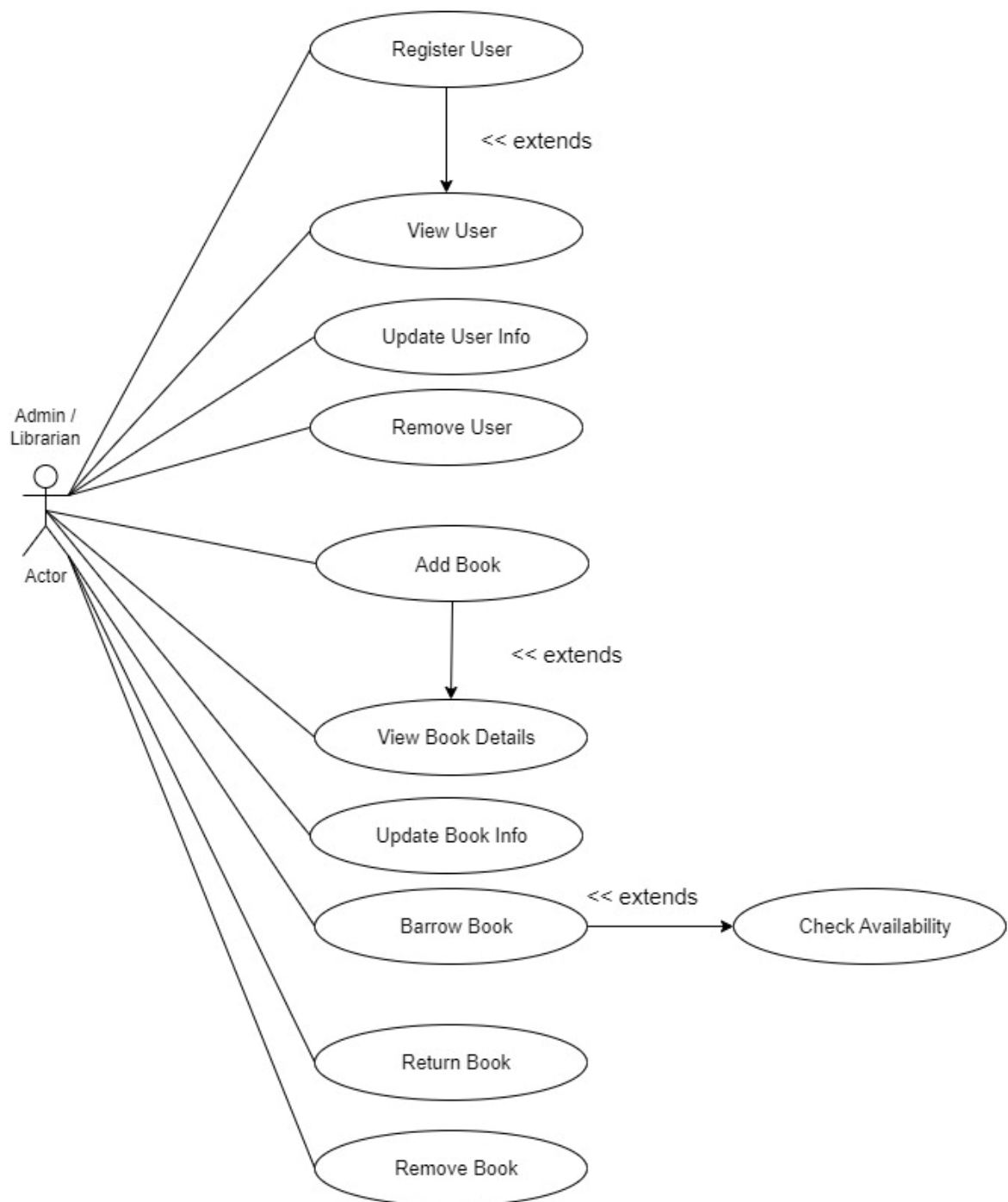
Architecture Diagram



ER Diagram



Use Case Diagram



Data Base Schemas

users

id	name	email	mobile	address	role	register_date	password
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books

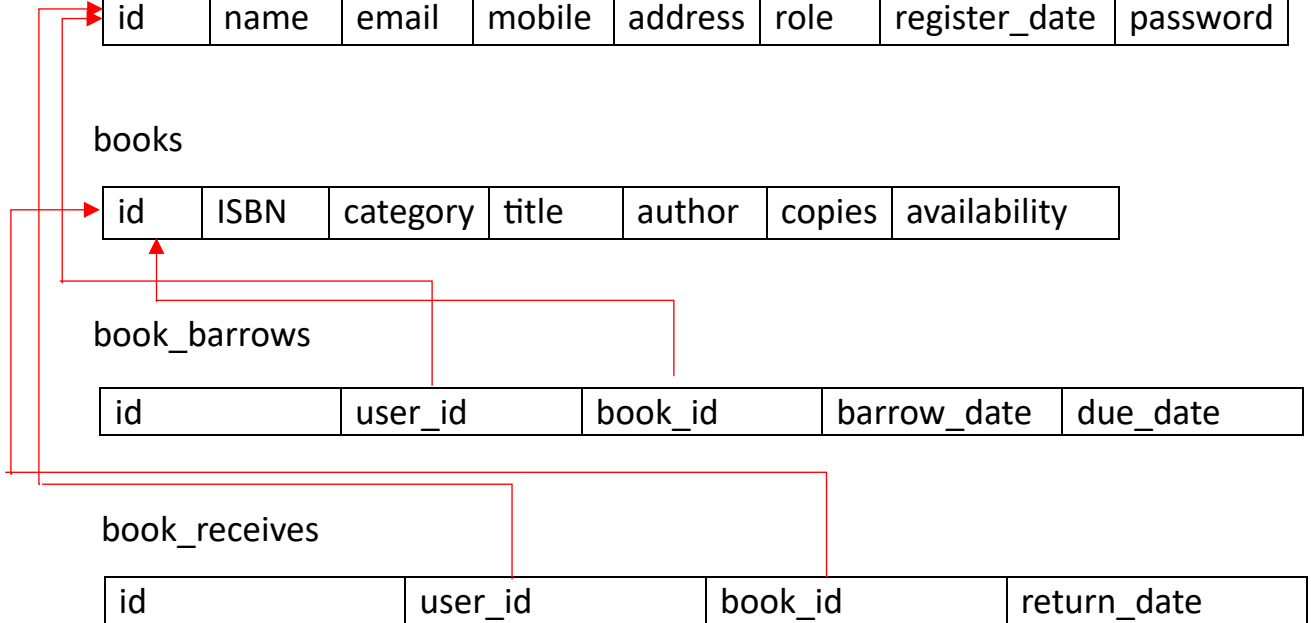
id	ISBN	category	title	author	copies	availability
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book_barrows

id	user_id	book_id	barrow_date	due_date
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book_receives

id	user_id	book_id	return_date
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Manual Testing Report

Project Name : Library Management System

Tested By : Vishan Dias

Tested Date : 11/16/2024

Environment

Browser : Edge (version 130.0.2849.80)

Operating System : Windows 11

PHP Version : 8.2.12

Database : mysql

Test ID	Test Case	Steps	Expected Result	Actual Result	Status
001	Login	Enter valid email (to user name section). Enter password. Click "Enter Now".	User is redirect to the Home page	Work as expected	Pass
002	Add New Book	Click "Add Book". Enter all the book details to the fields. Click "Add Book".	Book Added	Work as expected	Pass
003	Barrow Book	Click "All Books". Click "Barrow". Enter user id to the field. Click "Barrow".	Book Barrowed	Work as expected	Pass
004	Return Book	Click "Recieve Book". Enter user id and book id to the fields. Click "Receive".	Book Received	Work as expected	Pass

005	Search by ISBN, author and title	Fill the name or number in search bar. Click "Search".	Filter according to our search and show.	Work as expected	Pass
006	Filter by availability.	Click "All Books, Available Books, Empty Books".	Filter according to availability and show.	Worked as expected	Pass
007	Delete Book	Click "All Books". Click "View". Click "Delete".	Book Deleted	Worked as expected	Pass
008	Add New Member	Click "Add Member". Enter all the member details to the fields. Click "Add Member".	Member Added	Worked as expected	Pass
009	Delete Member	Click "View Members". Click "Delete".	Member Deleted	Worked as expected	Pass
010	Update Member Info	Click "View Members". Click "Edit". Fill the updated items in the fields. Click "Update".	Member Updated.	Worked as expected	Pass
011	Update Book Info	Click "All Books". Click "View". Fill the updated items in the fields. Click "Update".	Book Updated	Worked as expected	Pass
012	LogOut	Click "Log Out"	Log out the system and redirect to login page.	Worked as expected	Pass