Application Development

Project - First Part

2023 - 2024

A40533 – Suraj Pokharel

A43323 - Bikal Bista

A41724 - Shahadat Hossain

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Online Library

The idea of this project is to develop an Online Library which allows the admin to Create, Update and Delete books for the library. While new users are allowed to read the description of the book in the "Book" section of the page where they can make a reservation and borrow the book. To borrow the book, the user must be logged in. They will be redirected to sign in page if the don't have an account. Users can also create a blog in the "Article" section as well as read articles from different users. If the user encounters any problem, then they can leave a comment on "Contact Us" section which will be reviewed by the admin.

Objectives

1. Create an online library platform for users to access and manage a collection of books.

2. Allow administrators to perform CRUD (Create, Update, Delete) operations on books.

3. Enable users to read book descriptions, make reservations, and borrow books.

4. Implement user authentication to control access to borrowing books.

5. Provide a mechanism for users to create and read articles in a blog section.

6. Enable users to contact the admin for assistance and feedback.

Functional Requirements

1. User Registration:

   - Users can create accounts with their personal information.

   - User registration should include fields like name, email, and password.

2. User Login:

   - Registered users can log in using their email and password.

   - Unregistered users are redirected to the login page when trying to borrow a book.

3. Password Recovery:

   - Provide a "Forgot Password" feature for users to reset their passwords.

4. Book CRUD:

   - Admin can add new books to the library, specifying details like title, author, genre, and description.

   - Admin can update book information.

   - Admin can delete books from the library.

5. Book Reservation:

   - Users can reserve a book for borrowing.

   - Users can view book descriptions before making a reservation.

6. Book Borrowing:

   - Users can borrow reserved books.

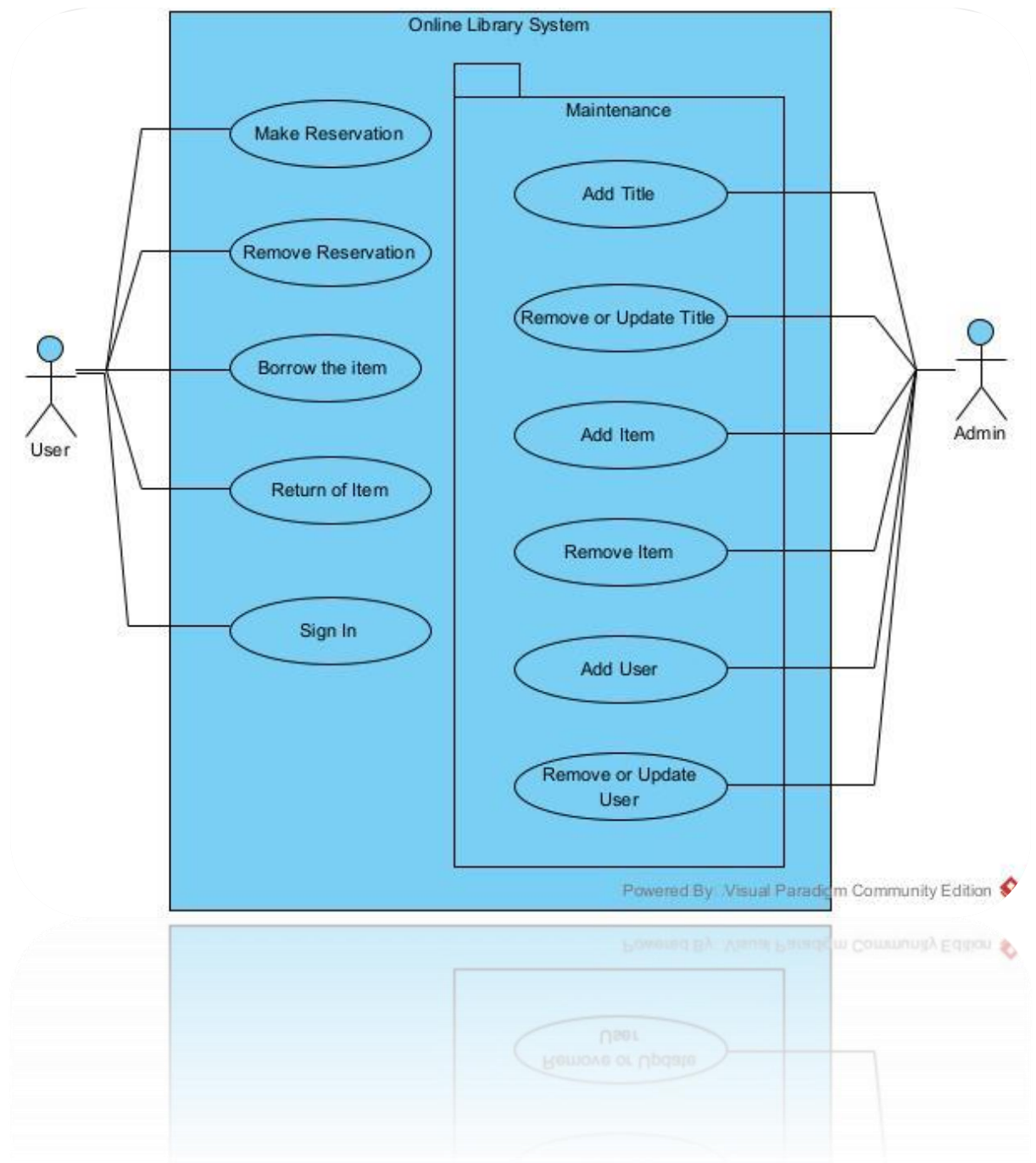   - Only logged-in users can borrow books.

7. Article Creation:

   - Users can create and publish articles in the "Article" section.

   - Articles may include titles, content, and author information.
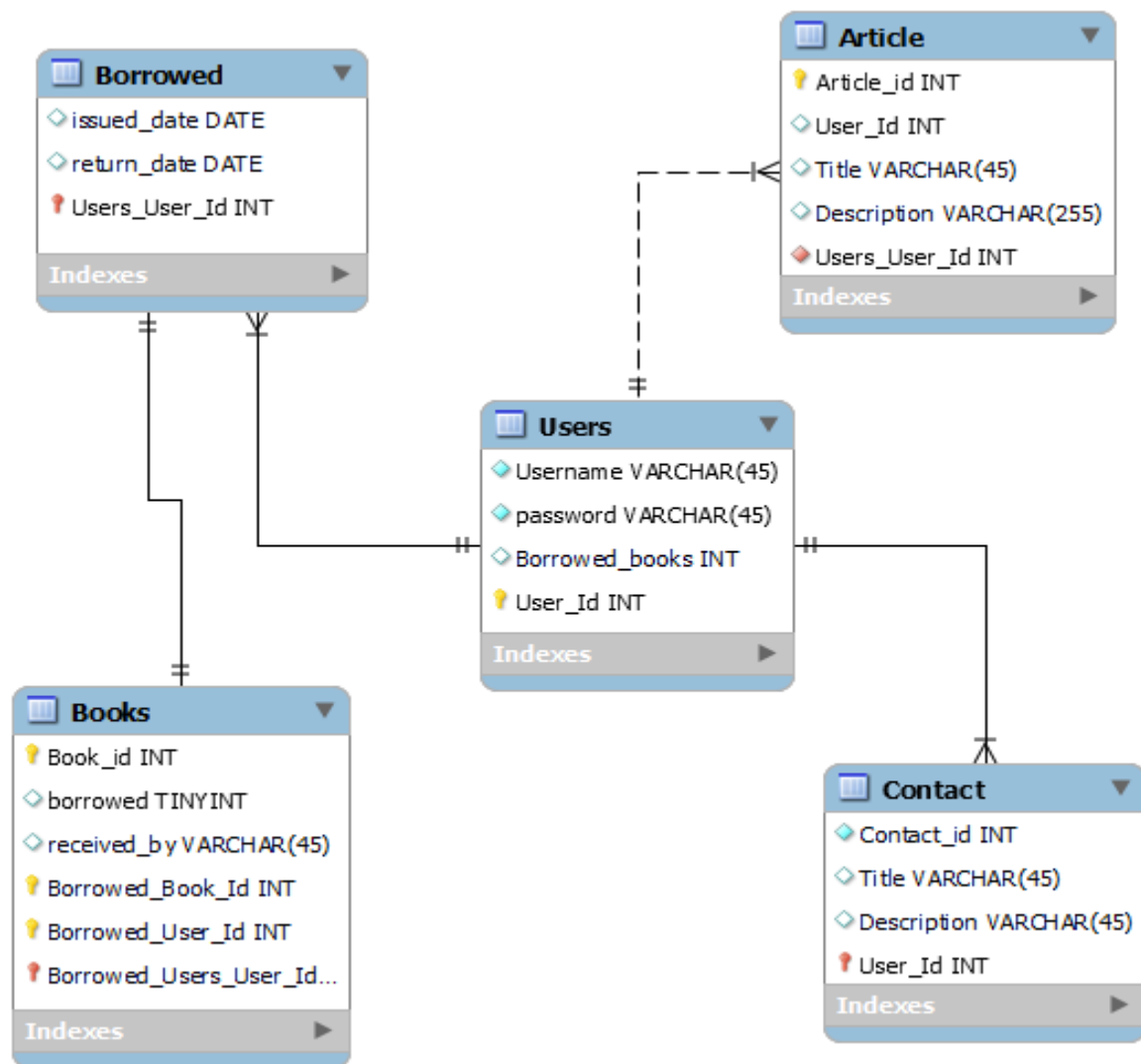
8. Article Reading:

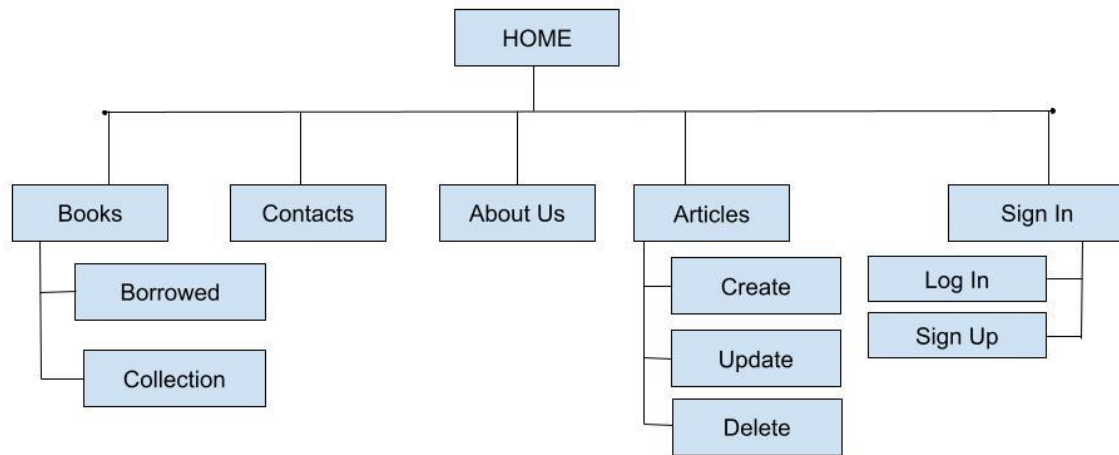   - Users can read articles published by different users.

9. User Comments:

   - Users can submit comments or questions through the "Contact Us" section.

   - Comments will be reviewed by the admin for response.

Online Library System

Make Reservation

Remove Reservation

Borrow the item

Return of Item

Sign In

Maintenance

Add Title

Remove or Update Title

Add Item

Remove Item

Add User

Remove or Update User

User

Admin

Powered By Visual Paradigm Community Edition

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ER Diagram

Application Map

Mockups

Online Library

Hero Title Example

Hero sub-title Example

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Online Library

Hero Text
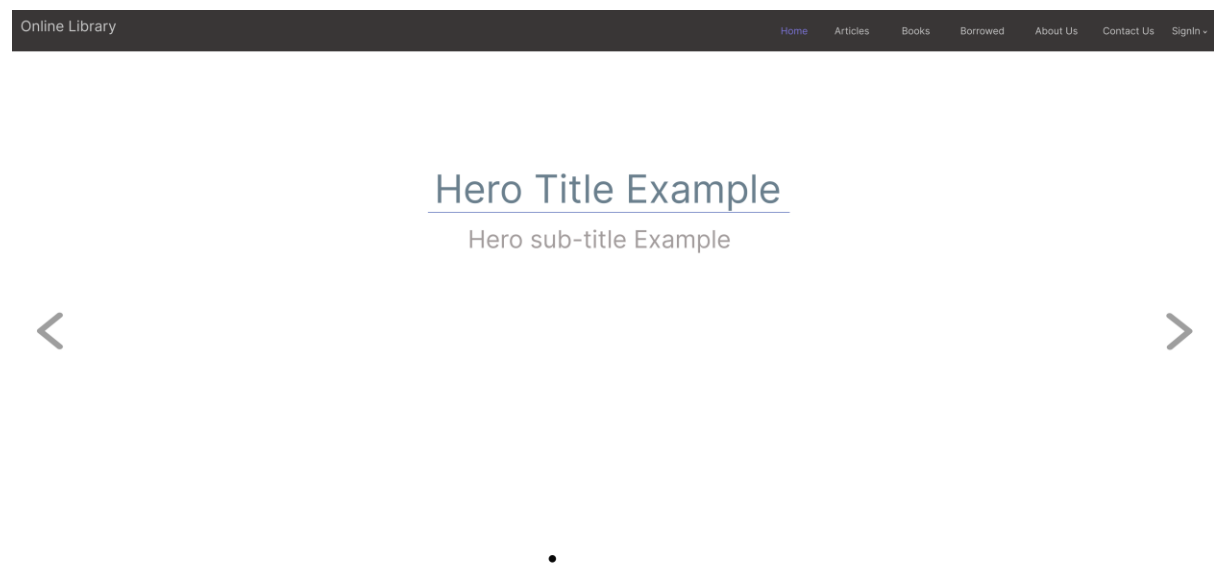
Hero Title Example
Hero sub-title Example

SEARCH

| BUTTON |

Hero Discription Example

MOST POPULAR

| IMAGE | IMAGE | IMAGE | IMAGE | IMAGE |

USER NAME

Borrowed Books:

IMAGE	**Title:** Title discription: Borrowed Date: Return Date:	RETURN	IMAGE	**Title:** Title discription: Borrowed Date: Return Date:	RETURN
IMAGE	**Title:** Title discription: Borrowed Date: Return Date:	RETURN	IMAGE	**Title:** Title discription: Borrowed Date: Return Date:	RETURN
IMAGE	**Title:** Title discription: Borrowed Date: Return Date:	RETURN	IMAGE	**Title:** Title discription: Borrowed Date: Return Date:	RETURN

Home   Articles   Books   Borrowed   About Us   Contact Us   SignIn⌄

Hero Title Example

Hero sub-title Example

Hero Discription Example

FOLLOW US ON   ●   ●   ●

Email: library@example.com
Phone: xxxxxxxxxxxxx

Online Library

Home   Articles   Books   Borrowed   About Us   Contact Us   SignIn⌄

Hero Title Example

Hero sub-title Example

TOPIC

|

SEND

Email: library@example.com
Phone: xxxxxxxxxxxxx

FOLLOW US ON   ●   ●   ●

Log In to Online Library

Username

Password

LOG IN

New to Online Library? Create a new account.

Sign Up for Online Library

Username

Password

Repeat Password

Sign Up

Already have an account? Log In

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