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A Mini Project Report on
"BOOK RECOMMENDATION SYSTEM"

Submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING

in

COMPUTER SCIENCE & ENGINEERING

Submitted by

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2024-25

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BANGALORE-560024

CERTIFICATE

Certified that the project work entitled **"Book Recommendation System"**, carried out by **Sharon A Dobbin (1AT22CS120),** a bonafide student of **Atria Institute of Technology,** in partial fulfillment for the award of Bachelor of Engineering in **Computer Science & Engineering of Visvesvaraya Technological University, Belagavi** during the academic year 2024-2025. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The mini project report has been approved as it satisfies requirements in respect of project work prescribed for the said degree.

Signature of Guide	Signature of HoD	Signature of Principal
Prof. Prathima	**Dr. Devi Kannan**	**Dr. Rajesha S**

DECLARATION

I, **Sharon A Dobbin,** student of V semester B.E in Computer Science & Engineering at **Atria Institute of Technology**, hereby declare that the project work entitled "**Book Recommendation System**" has been carried out under the supervision of Prof. Prathima, Assistant Professor, Dept. of CS&E, Atria Institute of Technology and submitted in partial fulfillment of the course requirements for the award of degree in B.E in Computer Science & Engineering of Visvesvaraya Technological University, Belagavi during the year 2024-25. I further declare that the report has not been submitted to any other University for the award of any other degree.

Place: Bangalore
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Sharon A Dobbin
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ABSTRACT

“BOOK RECOMMENDATION SYSTEM” aims to enhance the user experience by suggesting books based on their preferences and interests. The primary objective is to create a user-friendly platform where readers can explore new titles tailored to their tastes, making the process of book discovery more engaging and efficient.

For the development of the website, HTML, CSS, JavaScript, and jQuery were used. HTML was used to structure the web pages, providing the foundation for displaying content. CSS was employed to style the elements, ensuring the site is visually appealing and responsive. JavaScript handles the dynamic features, enabling interactivity such as responsive buttons and real-time updates. jQuery simplifies the JavaScript code and enhances functionality with efficient event handling and animations.

In the future, the system can be expanded by integrating algorithms for personalization and recommendations, such as collaborative filtering or content-based filtering. This implementation would analyze user preferences, reading history, and genre interests, making book discovery more intuitive and engaging. Such advancements could significantly improve the platform's functionality and user satisfaction.

The system includes several key pages, such as a dashboard, a home page featuring favorite books and a "browse by genre" option, and links to essential functionalities like profile creation, login, and registration pages.

This project holds significance as it addresses the challenge of overwhelming choices in the vast world of books, offering a tailored and personalized discovery experience. By helping users find books that align with their unique preferences, the system fosters a deeper connection to reading and encourages exploration of new genres and authors.

The primary target audience includes avid readers, casual book enthusiasts, and students, as well as libraries and educational institutions looking for efficient ways to recommend books to their members. By streamlining book selection, the project has the potential to inspire a love for reading across diverse user groups.

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CHAPTER 1

INTRODUCTION TO THE CONCEPT

A Book Recommendation System is an innovative web project designed to enhance the reading experience by helping users discover books that align with their interests. In today's fast-paced digital world, having a platform that curates and categorizes books based on genres is invaluable for readers. The purpose of this system is to connect readers with the right books effortlessly while fostering a love for literature and storytelling.

A well-designed book recommendation system is more than a catalog; it’s a personalized guide for readers. Combining intuitive navigation with a visually appealing interface ensures the platform is accessible to users of all ages. The integration of different genres broadens the scope of discovery, appealing to varied tastes. By leveraging technology to categorize, recommend, and display books, the system serves as a bridge between readers and the literary world, fostering a deeper connection with books.

1.1 Purpose and Significance

This system empowers readers by offering an organized and user-friendly interface that caters to diverse reading preferences. It aims to save time, reduce decision fatigue, and encourage exploration of new genres or authors. Whether you’re a casual reader or a book enthusiast, the system provides tailored suggestions to enrich your literary journey.

1.2 Diverse Genres to Choose From

The website features a wide variety of genres to ensure inclusivity for all kinds of readers:

- **Fiction**: Stories crafted from imagination.
- **Mystery**: Whodunit tales that keep you guessing.
- **Thriller**: High-stakes plots packed with suspense.
- **Romance**: Heartwarming tales of love and relationships.
- **Romantasy**: A blend of romance and fantasy.
- **Fantasy**: Magical worlds and epic adventures.
- **Science Fiction**: Stories exploring futuristic technology and concepts.
- **Women’s Fiction**: Stories centered on women’s experiences and journeys.

- **History**: Books delving into past events and eras.
- **Historical Fiction**: Fictional stories set in historical contexts.
- **Biography & Autobiography**: Real-life accounts of notable individuals.
- **Horror**: Chilling tales to keep you on edge.
- **Young Adult**: Stories crafted for teenage readers.
- **Non-Fiction**: Informative and factual content.
- **Classics**: Timeless masterpieces of literature.
- **Audiobooks**: Narrated versions of books for easy listening.
- **Children's Literature & Middle Grade**: Engaging tales for younger readers.

1.3 Technical Foundation

The website is built using modern web technologies for seamless functionality:

- **HTML**: Forms the backbone of the website, structuring content and elements.
- **CSS**: Enhances visual appeal with styling and layout design.
- **JavaScript**: Adds interactivity, enabling dynamic features like search and filter options.
- **jQuery**: Introduces smooth animations and simplifies scripting for enhanced user experience.

CHAPTER 2

INTRODUCTION TO PROJECT

2.1 Overview of the project

2.1.1 Introduction

A **Book Recommendation System** is an intuitive web platform designed to enhance the experience of book lovers by helping them discover titles that resonate with their preferences. In an era of abundant literary options, finding the perfect book can be overwhelming, making this system an essential tool for readers. Its primary purpose is to simplify the search process by organizing books into various genres and providing tailored suggestions. By encouraging exploration and promoting lesser-known titles, the system enriches the literary journey for readers of all ages.

The website offers an extensive selection of genres, including Fiction, Mystery, Thriller, Romance, Fantasy, Science Fiction, History, Biography, Horror, and more, catering to diverse tastes and interests. Built with a combination of **HTML** for structure, **CSS** for styling, **JavaScript** for interactivity, and **jQuery** for smooth animations, the platform ensures a seamless and engaging user experience. Beyond its technical foundation, the system serves as a bridge between readers and literature, fostering a deeper connection with stories that inspire, entertain, and educate.

2.1.2 Problem statement

In a world overflowing with books across countless genres, readers often face the challenge of identifying titles that match their tastes and interests. This abundance can lead to decision fatigue, missed opportunities to explore diverse genres, and difficulty discovering new or lesser-known books. The lack of a centralized, user-friendly platform to streamline this process hinders the reading experience and limits access to a broader literary world.

This project aims to address these issues by creating a web-based solution that categorizes books into various genres and simplifies the search for personalized recommendations, offering readers a curated and enjoyable book discovery experience.

2.1.3 Reason for the Project

The primary reason for developing the **Book Recommendation System** is to bridge the gap between readers and their ideal books, making the discovery process seamless and enjoyable. With the overwhelming number of books available across diverse genres, it becomes challenging for readers to identify titles that align with their preferences. This project aims to provide a user-friendly platform that categorizes books efficiently and offers tailored recommendations, encouraging readers to explore new genres, discover hidden gems, and enhance their reading journey. By simplifying the search process, the system promotes a deeper connection between readers and literature.

2.1.4 Scope

The **scope of the Book Recommendation System** encompasses creating a dynamic, user-friendly platform that caters to diverse reader preferences. The system allows users to explore books from various genres, such as Fiction, Mystery, Thriller, Romance, Science Fiction, and more, while providing detailed descriptions and links for further exploration. It also incorporates features like genre-based categorization, visually appealing layouts using CSS, and interactive animations powered by JavaScript and jQuery to enhance user engagement.

Beyond offering book suggestions, the project can evolve to include personalized recommendations based on user preferences, reviews, and ratings, making it a comprehensive tool for book enthusiasts. It has the potential to serve educational institutions, libraries, and individual readers, promoting literacy and making reading accessible and enjoyable for all.

CHAPTER 3 DESIGN

3.1 System Architecture

The Book Recommendation System is designed as a simple, user-friendly web application with a focus on providing book suggestions based on user preferences. The front-end of the system is built using HTML, CSS, and JavaScript, providing users with an interactive interface. The user can select genres, view recommended books, and access detailed information about each book. The system is structured to work entirely on the client side, with no back-end server, making it lightweight and fast. jQuery is used to enhance interactivity, allowing for smooth transitions, animations, and dynamic content updates without the need for page reloads.

3.2 User Interface Design

The website is designed with a clean and intuitive layout to ensure ease of navigation. The main sections include the homepage, where users are introduced to the various genres, and the genre pages, where books are displayed based on user selection. Each book card features a title and a cover image, and users can click on a book to view more details. The design is based on a responsive layout, ensuring it looks great on both desktop and mobile devices. Wireframes and mockups were created to map out the structure and flow, with a focus on making sure the design is both aesthetically pleasing and functional. This ensures users can easily navigate through different sections and find books that interest them without feeling overwhelmed.

3.3 Functionality and Interactivity

The core functionality of the Book Recommendation System relies on JavaScript and jQuery for interactivity. When a user selects a genre, the JavaScript dynamically displays books related to that genre without reloading the page. This allows for a smooth and seamless experience. jQuery is also used to implement animations, such as book cards sliding in or fading out as users browse through different genres. Sorting features, like filtering books by genre, are powered by JavaScript, allowing users to quickly find the books they're most interested in. The system’s responsiveness ensures that users can interact with the website in a fluid and engaging way on various devices.

3.4 Responsive Design

The website is designed with responsive web design principles in mind, ensuring that it works efficiently on different screen sizes and devices. Media queries are used to adjust the layout, such as resizing images and rearranging content for optimal viewing on mobile, tablet, or desktop screens. This design approach guarantees that users can access the website comfortably from any device, whether they are browsing on their phone during a commute or using a desktop computer at home.

3.5 Color Scheme and Visual Elements

The color palette and visual elements are carefully chosen to create a welcoming, aesthetically pleasing environment for users. The colors are soft and minimalistic, allowing the book covers and titles to stand out without overwhelming the user. The typography is simple and readable, ensuring that text is easy to read across all devices. The visual design is intended to keep the user focused on exploring books and genres

while providing a smooth and pleasant browsing experience.

3.6 Challenges and Solutions

One of the key challenges faced during the design process was ensuring the website's responsiveness across a wide range of devices and screen sizes. To address this, media queries were used extensively to adjust the layout dynamically, and flexbox was utilized for arranging elements fluidly. Another challenge was maintaining smooth interactivity and animations without compromising page load times. This was solved by using jQuery for lightweight animations that don’t require heavy resources, ensuring a fast and responsive user experience. Additionally, optimizing the overall design for both simplicity and functionality required careful planning to strike the right balance between visual appeal and usability.

CHAPTER 4

4.1 FUNCTIONAL AND NON-FUNCTIONAL REQUIREMENTS

4.1.1 Functional Requirements

1. **User Interaction with Book Genres**
    - The system must allow users to select from a list of book genres (e.g., Fiction, Mystery, Thriller, Romance, etc.).
    - Upon selecting a genre, the system must display a list of books related to that genre.
    - Users should be able to click on a book to view more detailed information, including a brief description, author, and other relevant details.
2. **Dynamic Content Display**
    - The book recommendations should be dynamically updated based on the genre chosen by the user without reloading the page.
    - Users should be able to interact with the genre selection and book cards seamlessly through smooth animations and transitions.
3. **Responsive Design**
    - The website must be responsive, ensuring it provides a user-friendly experience on both desktop and mobile devices.
    - The layout and design elements should adjust appropriately based on the screen size (e.g., images resizing and content reordering for smaller screens).
4. **User-Friendly Interface**
    - The user interface (UI) must be intuitive, with easy navigation between different genres and books.
    - All sections of the website must be accessible from the homepage, with clear call-to-action buttons and labels.
5. **Book Recommendations Filtering**
    - The system should support filtering books by genre, allowing users to narrow down their search to specific types of books.
    - Filters should be easily accessible and provide a seamless experience when switching between genres.
6. **Animations and Transitions**
    - The system should provide smooth transitions for interactive elements (e.g., when a user hovers over a book, the book card should slightly enlarge or change color).
    - **jQuery** should be used for smooth animations and dynamic content updates to enhance user experience without causing delays or performance issues.
7. **Book Details**
    - Each book displayed in the recommendation section should have the following details:
        - Book title
        - Cover image
        - A brief description
        - Author name

        - A link to the Goodreads page or additional information
    - The details should be visible in a modal window or on a separate page when the user clicks on a book card.
8. **Error Handling**
    - The system must be able to handle scenarios where there is an issue with displaying books (e.g., no books available for a selected genre).
    - Proper error messages or fallback content must be provided to guide the user in case of issues.
9. **Performance and Load Time**
    - The website must load quickly, and book data must be retrieved and displayed instantly when a user interacts with the interface.
    - All images and content must be optimized to ensure fast loading times, especially on mobile devices with slower internet connections.
10. **Data Integrity**
    - Ensure that the book data displayed, such as titles, descriptions, and images, is consistent and accurate.
    - Proper measures should be taken to ensure that the correct book details are displayed when a genre is selected.

4.1.2 Non- Functional Requirements

Performance

- The website should load quickly, with minimal delay between user actions and content display.
- The system should be optimized to handle multiple simultaneous users without noticeable degradation in performance.

Usability

- The interface should be user-friendly, intuitive, and easy to navigate, with clear labels and easy-to-understand features.
- Users should be able to find and browse books with minimal effort and confusion, providing a smooth experience for both novice and experienced users.

Scalability

- The system should be designed to accommodate future growth, such as adding more genres or books.
- The website should be capable of handling an increasing number of books, users, or traffic without compromising performance.

Compatibility

- The website must be compatible with all major browsers (e.g., Chrome, Firefox, Safari, Edge).
- It should be optimized for various devices, including desktops, tablets, and mobile phones, ensuring a consistent experience across platforms.

Reliability

- The system must be stable and consistently available with minimal downtime.
- Any potential bugs or crashes should be identified and fixed promptly, ensuring a reliable experience for users.

Security

- User data should be protected, especially if the system collects personal information or has login features.
- The website must follow best practices in web security, including HTTPS for secure communication and protection against common vulnerabilities such as SQL injection or cross-site scripting (XSS).

Maintainability

- The codebase should be structured in a way that makes it easy to maintain and extend.
- Future updates or additions, such as new genres or book categories, should be straightforward to implement without significant rework.

Accessibility

- The website should meet basic accessibility standards, ensuring that users with disabilities can access and navigate the site.
- Features such as keyboard navigation, screen reader compatibility, and sufficient color contrast should be implemented to provide an inclusive experience.

Availability

- The system should be available 24/7 with minimal downtime for maintenance or updates.
- Any scheduled downtime for updates or bug fixes should be communicated to users in advance.

Internationalization

- While the system may initially be developed in one language, it should be built in a way that allows for easy localization into other languages if needed in the future.

Backup and Recovery

- Regular backups should be taken to protect the data, especially the book information and user preferences.
- In case of a failure or loss of data, there should be a recovery mechanism in place to restore the system to a working state.

4.2 SOFTWARE REQUIREMENTS

1. Programming languages: HTML, CSS, JAVASCRIPT, JQUERY
2. Coding Environment: VSCode
3. Browser: Chrome

4.3.1.1 HTML

HTML (HyperText Markup Language) plays a crucial role in the development of this book recommendation system project. It is the foundational language used to structure and organize the content on the web pages. HTML provides the essential framework for displaying text, images, links, and other media elements, making it possible for users to interact with the content.

In this project, HTML is used to define the structure of the book recommendation system's web pages. It organizes elements such as the header, navigation menu, book listings, user profiles, and search bar. HTML tags are used to create the basic building blocks like headings, paragraphs, images, links, buttons, forms, and lists. Through HTML, users can view book information, browse through different genres, and interact with the system to search for or filter books. HTML ensures that content is displayed in a meaningful and accessible manner, forming the backbone of the front-end user experience.

4.3.1.2 CSS

CSS (Cascading Style Sheets) plays an essential role in enhancing the visual appeal and user experience of the book recommendation system project. It is used to define the layout, design, and presentation of HTML elements, ensuring that the website is not only functional but also aesthetically pleasing.

In this project, CSS is applied to style the various components such as the book cards, navigation bar,

buttons, typography, and background. It controls aspects like colors, fonts, spacing, alignment, and responsiveness across different devices and screen sizes. By using CSS, the website can have a consistent and visually engaging design that improves readability and ease of navigation. Moreover, CSS helps in creating interactive elements like hover effects and animations, making the user experience more dynamic and enjoyable. Essentially, CSS brings the content structured by HTML to life, giving the website its unique look and feel.

4.3.1.3 JavaScript

JavaScript plays a crucial role in adding interactivity and dynamic functionality to the book recommendation system project. As a client-side scripting language, it allows the web pages to respond to user actions without requiring a page reload, ensuring a smooth and engaging user experience.

In this project, JavaScript is used to implement various interactive features. For example, it can handle the functionality of the book search feature, filter books by genres, and dynamically display book details when a user clicks on a particular book. Additionally, JavaScript is responsible for validating user input, handling form submissions, and controlling the flow of information between different parts of the website. It also enables the use of event-driven programming, allowing the page to react to actions like clicks, mouseovers, and scrolling. By incorporating JavaScript, the website becomes more responsive and engaging, providing users with an intuitive and seamless interface.

4.3.1.4 jQuery

jQuery is a fast, small, and feature-rich JavaScript library that simplifies HTML document traversal, event handling, animation, and Ajax interactions for rapid web development. In the book recommendation system project, jQuery plays a significant role in enhancing user interaction and optimizing the website's performance.

Using jQuery, the project can include smooth animations, such as fading in and out, sliding book details, or dynamically displaying content without reloading the page. It is also instrumental in simplifying tasks like handling user inputs, form submissions, and interactive elements like search suggestions, genre filters, and book ratings. By utilizing jQuery's efficient syntax and features, developers can write less code while achieving more functionality, improving the overall responsiveness and user experience of the book recommendation system.

Sample Code

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>InkSpire</title>
    <link rel="stylesheet" href="css/styles.css">
</head>
<body>
    <!-- Header -->
    <header>
        <div class="logo">
                                                <img    src="C:\Users\Sharon
dobbin\OneDrive\Desktop\InkSpire\images\InkSpire   Logo.png"   alt="InkSpire
Logo">

        </div>
        <nav>
            <div>
                        <input type="text" placeholder="Search for books..."
id="search-bar">
                <button id="search-button">Search</button>
            </div>
            <ul>
                <li><a href="#">Home</a></li>
                <li><a href="#genres">Genres</a></li>
                <li><a href="#featured-books">Favorites</a></li>
                                                <li><a   href="profile.html"
id="profile-link">Profile</a></li>
            </ul>
        </nav>
    </header>

    <!-- Main Content -->
    <main>
        <section id="featured-books">
            <h2>My Books</h2>
            <div class="book-grid" id="book-grid">
                <div class="book-card">
                     <img src="images/book1.webp" alt="Percy Jackson and The
Lightning Thief">
```

```
                    <p class="book-title">Percy Jackson and The Lightning
Thief</p>
                </div>
                <div class="book-card">
                    <img src="images/book2.jpg" alt="The Cruel Prince">
                    <p class="book-title">The Cruel Prince</p>
                </div>
                <div class="book-card">
                        <img src="images/book3.jpg" alt="The Red Scrolls of
Magic">
                    <p class="book-title">The Red Scrolls of Magic</p>
                </div>
                <!-- Add more book cards as needed -->
            </div>
        </section>

        <script>
            document.addEventListener('DOMContentLoaded', function() {
                // Step 1: Collect all the book titles from the book cards
                const bookTitles = [];
                                                    const   bookElements   =
document.querySelectorAll('.book-title');

                bookElements.forEach(book => {
                    bookTitles.push(book.textContent.trim());
                });

                // Step 2: Store the collected book titles in localStorage
                localStorage.setItem('myBooks', JSON.stringify(bookTitles));
            });
        </script>

        <!-- Browse by Genres Section -->
        <section id="genres">
            <h2>Browse by Genres</h2>
            <ul class="genre-list">
                <li><a href="fiction.html">Fiction</a></li>
                <li><a href="mystery.html">Mystery</a></li>
                <li><a href="thriller.html">Thriller</a></li>
                <li><a href="romance.html">Romance</a></li>
                <li><a href="romantasy.html">Romantasy</a></li>
                <li><a href="fantasy.html">Fantasy</a></li>
                <li><a href="science-fiction.html">Science Fiction</a></li>
```

```
                <li><a href="womens-fiction.html">Women's Fiction</a></li>
                <li><a href="history.html">History</a></li>
                            <li><a  href="historical-fiction.html">Historical
Fiction</a></li>
                <li><a href="biography.html">Biography</a></li>
                <li><a href="autobiography.html">Autobiography</a></li>
                <li><a href="horror.html">Horror</a></li>
                <li><a href="young-adult.html">Young Adult</a></li>
                <li><a href="non-fiction.html">Non-Fiction</a></li>
                <li><a href="classics.html">Classics</a></li>
                <li><a href="audiobooks.html">Audiobooks</a></li>
                            <li><a  href="childrens-literature.html">Children's
Literature</a></li>
                <li><a href="middle-grade.html">Middle Grade</a></li>
            </ul>
        </section>
    </main>

    <!-- Footer -->
    <footer>
             <p>&copy; 2024 InkSpire. Web Dev Project By Sharon A Dobbin
(1AT22CS120)</p>
        <ul>
            <li><a href="#">About</a></li>
            <li><a href="#">Contact</a></li>
            <li><a href="#">Privacy Policy</a></li>
        </ul>
    </footer>

    <script>
        // Update Profile Link
        document.addEventListener('DOMContentLoaded', function() {
            const loggedInUser = localStorage.getItem('loggedInUser');
            const profileLink = document.getElementById('profile-link');

            if (loggedInUser) {
                  profileLink.href = `profile.html?user=${loggedInUser}`; //
Redirect to personalized profile
            } else {
                profileLink.href = 'login.html'; // Redirect to login if not
logged in
            }
        });
```

```
    </script>
    <script src="js/script.js"></script>
</body>
</html>
```

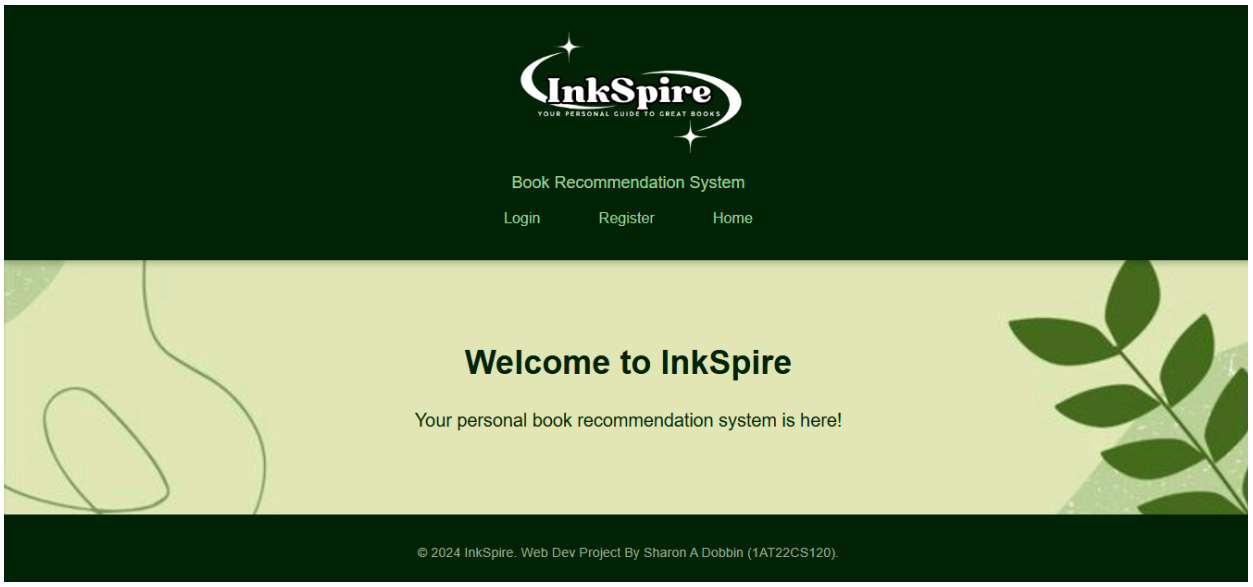
CONCLUSION

In conclusion, the Book Recommendation System project effectively addresses the need for personalized book suggestions, helping users easily discover books based on their preferences and reading history. By incorporating various genres such as Fiction, Mystery, Thriller, Romance, Fantasy, Science Fiction, Biography, and more, the system offers an expansive range of books, making it versatile and appealing to a wide audience. The integration of HTML for structure, CSS for styling, JavaScript for functionality, and jQuery for animations ensures a seamless and interactive user experience. This combination of technologies allows for a dynamic, responsive, and aesthetically pleasing website that enhances the process of book discovery. The project not only improves the user experience but also serves as a foundation for future enhancements, such as implementing machine learning algorithms for more accurate book recommendations, adding user reviews, and even integrating social sharing features. With its simple yet effective design and functionalities, the Book Recommendation System is a valuable tool for readers seeking their next great read, while offering significant room for further development and scaling.

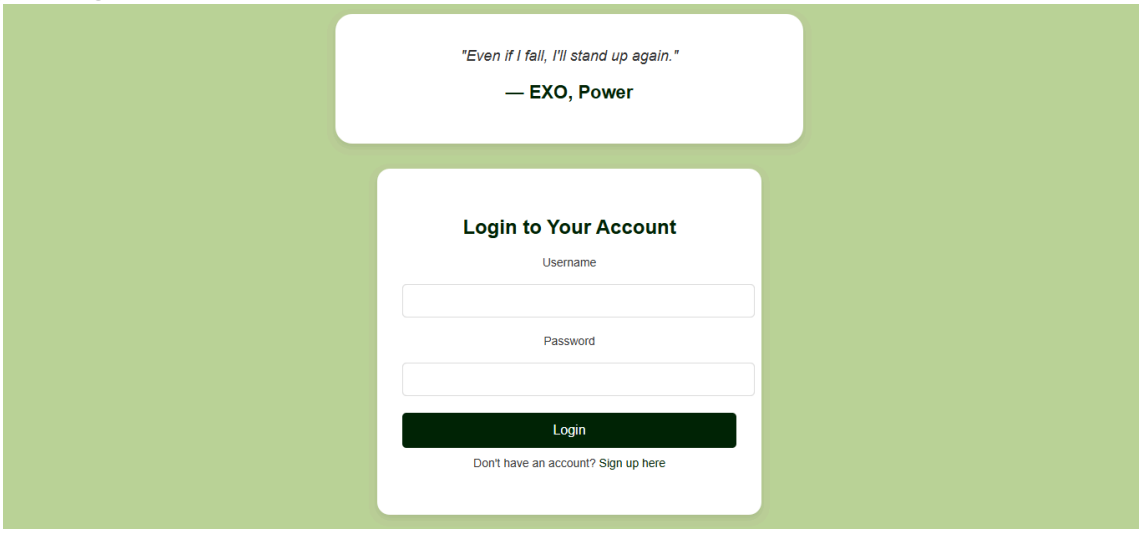
APPENDIX ‘A’– SCREENSHOTS

A.1 Logo

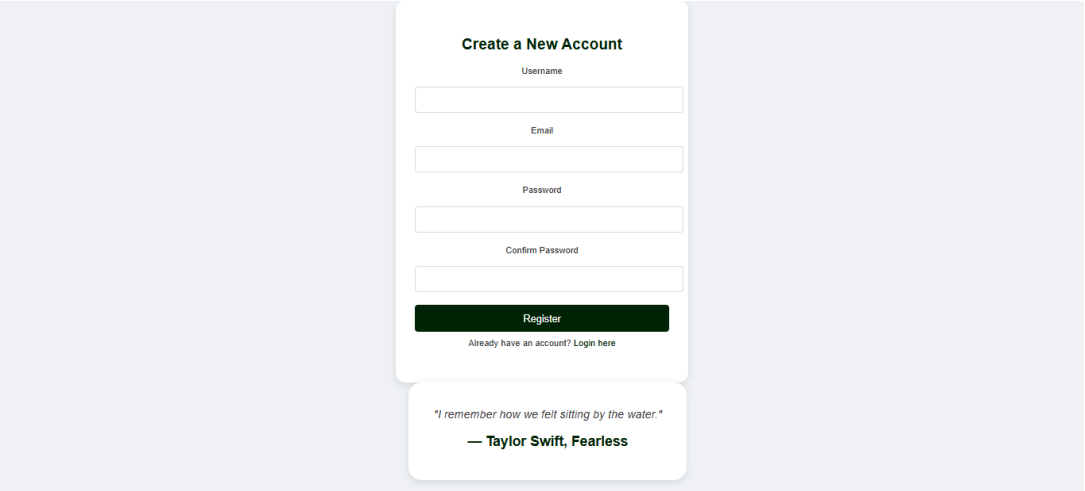
A.2 Dashboard



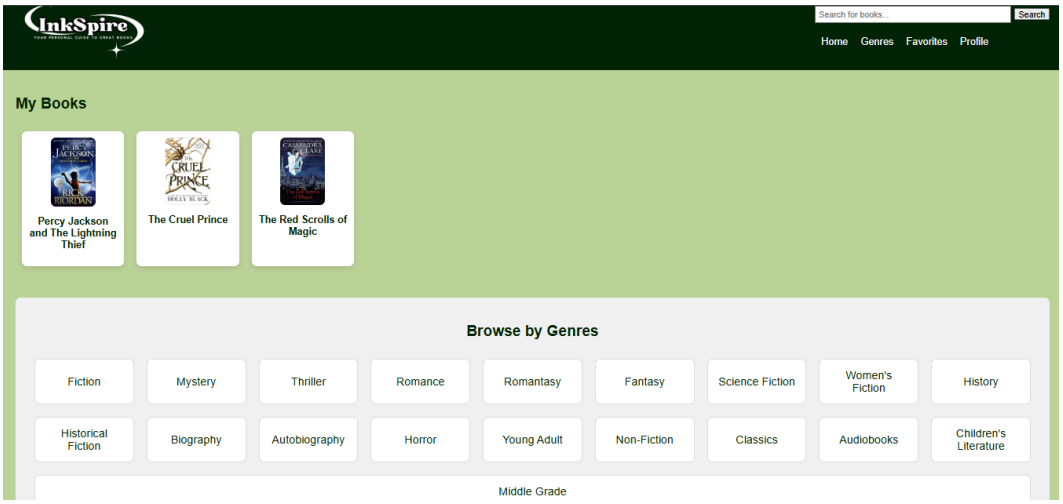
A.2 Login Page



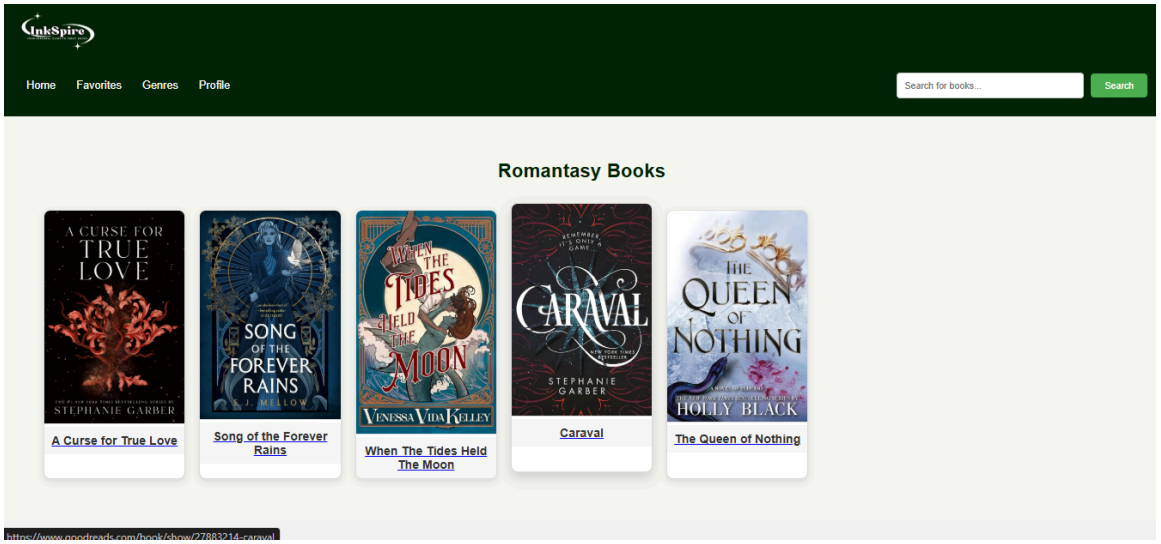
A.3 Register Page

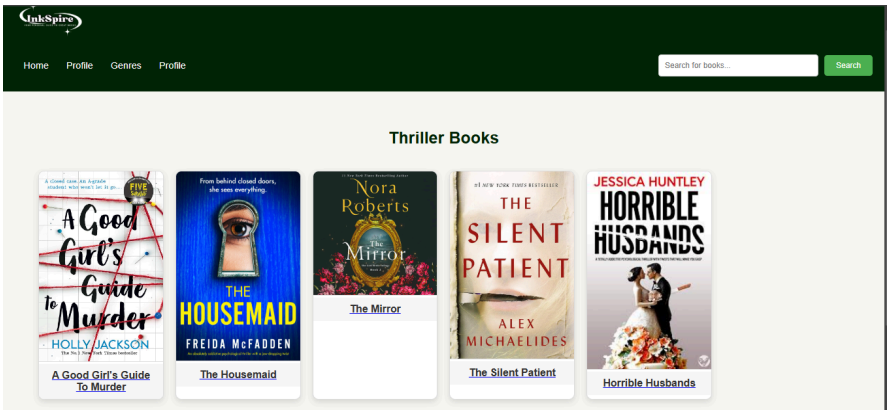


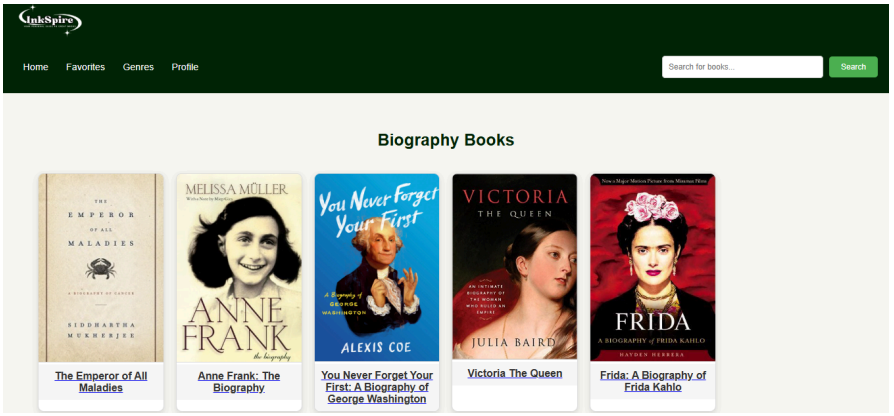
A.4 Home Page

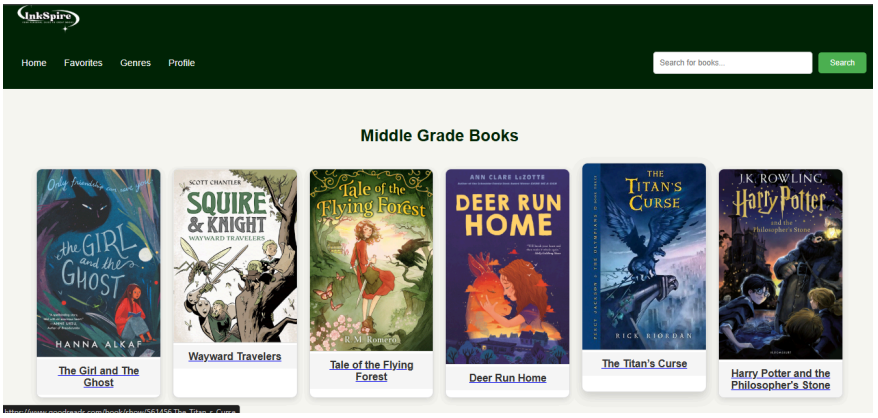


A.5 Screenshots of genres









A.6 Profile Page