Project Report

On

E-Book Library Management System

Submitted

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(C-DAC, ACTS (Pune))

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ABSTRACT

E-book is an advanced library management system, designed with precision to simplify and enhance the management and administration of a library's vast book collection. This sturdy and user-friendly system allows librarians, administrators, and patrons to easily handle various book-related tasks, ensuring a smooth and efficient library experience.

The core of E-Book is built on a contemporary technology stack, which includes React for the frontend interface, Spring Boot for reliable backend functionality, and MySQL for secure and scalable data storage. This combination of technologies forms a strong base for E-Book wide range of features, designed to cater to the varied needs of effective library management.

Librarians and administrators can utilize E-Book intuitive tools for cataloging new books, monitoring inventory, and managing lending operations. The system's user-friendly interface enables quick and easy navigation, allowing library staff to spend more time serving patrons and less time on administrative tasks.

Patrons also benefit from E-book user-focused design, which allows them to effortlessly browse the library's collection, access detailed information about books, and smoothly borrow items. The system's efficiency ensures a pleasant and enjoyable experience for users, promoting increased interaction with the library's resources.

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Chapter 1 Introduction

1.1 Introduction

The E-Book Library Management System is a software solution designed to streamline the management of ebooks, genres, subscribed users, navigation data, plans, and user authentication in a digital library setting. This system aims to provide an efficient platform for users to access and manage ebooks, track their reading progress, and explore various genres. The system consists of several key components:

- **Entities** - These represent the core data structures of the system, including ebooks, genres, navigation data, plans, subscribed users, and visited users. Each entity encapsulates specific attributes and relationships with other entities, forming the basis of the system's data model.

- **DTOs (Data Transfer Objects)** -DTOs facilitate the transfer of data between the backend services and the frontend user interface. They encapsulate data related to ebooks, genres, navigation, plans, subscribed users, and visited users, providing a standardized format for communication.

- **Repositories** - Repositories are responsible for interacting with the underlying database to perform CRUD (Create, Read, Update, Delete) operations on entities. Each repository corresponds to a specific entity and provides methods for querying and manipulating data.

- **Services**: Services encapsulate the business logic of the application, orchestrating interactions between repositories, DTOs, and other components. They provide functionality for creating, retrieving, updating, and deleting entities, as well as implementing additional features such as user authentication and navigation tracking.

- **Controllers** - Controllers handle incoming HTTP requests from the frontend and delegate them to the appropriate service methods. They are responsible for routing requests, validating input data, and returning responses to the client.

- **Repositories** - Repositories are responsible for interacting with the underlying database to perform CRUD (Create, Read, Update, Delete) operations on entities. Each repository corresponds to a specific entity and provides methods for querying and manipulating data.

Overall, the BookNest Comprehensive Library Management System aims to provide a userfriendly and efficient platform for managing digital library resources, enabling users to explore, read, and interact with e-books across various genres while ensuring data integrity, security, and scalability.

1.2 Objective

The objective of the E-Book Library Management System is to provide a robust and user-friendly platform for managing digital library resources, including e-books, users, plans, and navigation data. The system aims to streamline the process of accessing, organizing, and navigating through a diverse collection of e-books while ensuring data security, scalability, and performance. To provide an overview of the features and functionalities of the E-Book library management system.

- To analyze the technology stack used in developing E-Book, including React, Spring Boot,

  and MySQL, and evaluate their suitability for the project.
- To assess the usability and user experience of the E-Book interface for both librarians and patrons.
- To evaluate the reliability, performance, and scalability of E-Book backend infrastructure, particularly focusing on Spring Boot and MySQL.
- To examine the security measures implemented in E-Book to protect sensitive data and prevent unauthorized access.
- To analyze the impact of E-Book on streamlining library operations, including cataloging, membership management, checkout, and return processes.
- To investigate any challenges encountered during the development and implementation of E-Book and the strategies employed to overcome them.
- To gather feedback from librarians, administrators, and patrons regarding their experience

  with E-Book and identify areas for improvement.
- To propose recommendations for future enhancements and developments of E-Book based on the findings and analysis conducted in the report.

Specifications :

Ebook Management

- Allow users to upload, update, and delete ebooks.
- Store ebook metadata such as title, author, genre, and number of pages. - Support content indexing and search functionality for efficient retrieval.

User Management

- Enable user registration and authentication.
- Maintain user profiles with information such as email, password, name, and gender.
- Implement role-based access control to manage user privileges.

Plan Management

- Offer subscription plans with varying durations and prices.
- Track the number of subscribed users for each plan.
- Allow administrators to create, update, and delete subscription plans.

Navigation Tracking

- Record user navigation data, including ebook visits and page numbers.
- Provide insights into user reading habits and preferences.
- Support personalized recommendations based on navigation history.

Genre Management

Classify ebooks into different genres for better organization and discovery.

- Allow administrators to manage genre categories dynamically.

Data Persistence

- Utilize a relational database management system (e.g., MySQL, PostgreSQL) for data storage.
- Ensure data integrity and consistency through proper database design and transactions.

Security Measures

- Implement secure authentication mechanisms, such as password hashing and encryption.
- Enforce access control policies to protect sensitive user data and system resources.
- Regularly update software components and patches to address security vulnerabilities.

Scalability and Performance

- Design the system architecture to handle concurrent user requests and large datasets.
- Employ caching mechanisms and load balancing techniques to improve system performance.
- Monitor system metrics and optimize resource utilization for scalability.

User Interface

Develop a responsive and intuitive user interface for easy navigation and interaction.

Support multi-platform access, including web browsers and mobile devices. - Incorporate modern design principles and usability guidelines for a pleasant user experience.

Chapter 2 LITERATURE REVIEW

The development of digital library management systems has been an active area of research and implementation in recent years, driven by the increasing demand for efficient access to digital resources such as ebooks. Several studies and projects have contributed to the understanding and improvement of ebook library management systems. Here's an overview of the literature relevant to the Ebook Library Management System:

I. Various research papers and projects have explored the design and implementation of digital library systems, focusing on aspects such as user interface design, database management, and content organization. These studies provide valuable insights into best practices and challenges in developing effective digital library platforms.

II. Literature on user experience (UX) design in digital libraries has highlighted the importance of intuitive navigation, personalized recommendations, and seamless reading experiences. Understanding user behavior and preferences is crucial for optimizing the design and functionality of ebook library management systems.

III. Studies on content management in digital libraries have addressed issues such as metadata management, content discovery, and copyright management. Effective content management strategies are essential for organizing large volumes of ebooks and ensuring efficient search and retrieval mechanisms.

IV. Research on authentication mechanisms and security measures in digital libraries emphasizes the need for robust user authentication, data encryption, and access control mechanisms. Protecting user privacy and preventing unauthorized access to sensitive information are critical considerations in ebook library management systems.

V. Scalability and performance optimization techniques are essential for ensuring that ebook library management systems can handle increasing user traffic and data volumes. Studies on database optimization, caching mechanisms, and distributed computing architectures provide valuable insights into scalability challenges and solutions.

VI. Literature on integration with external systems, such as payment gateways and content delivery networks (CDNs), explores ways to enhance the functionality and reliability of ebook library

management systems. Seamless integration with third-party services can improve user experience and system performance.

Chapter 3 Methodology and Techniques

3.1 Methodology:

The Ebook Management System utilizes various methodologies and techniques to achieve its objectives efficiently and effectively. These include:

- **Object-Oriented Programming (OOP):**

The system is developed using OOP principles to organize code into reusable and modular components, enhancing maintainability and scalability.

- **Model-View-Controller (MVC) Architecture:**

The system follows the MVC architecture to separate concerns between data models, business logic (controllers), and presentation layer (views), promoting code organization and flexibility.

- **Spring Framework**

Spring Framework is utilized for dependency injection, inversion of control, and Aspect oriented programming, facilitating the development of loosely coupled and testable components.

- **java Persistence API (JPA)**

JPA is employed for object-relational mapping (ORM), allowing seamless interaction with the underlying database through high-level Java objects and reducing boilerplate code.

- **Spring Data JPA**

Spring Data JPA simplifies data access operations by providing repository interfaces with predefined CRUD methods, reducing the need for manual implementation of data access logic.

- **Spring Security**

Spring Security is integrated to manage user authentication, authorization, and session management, ensuring secure access to system resources and protecting against common security threats.

- **RESTful Web Services**

The system exposes RESTful APIs to enable communication between the client-side application and the server, facilitating data exchange and interaction with external systems.

- **Database Management Systems (DBMS)**

Relational database management systems (e.g., MySQL, PostgreSQL) are utilized for data storage, ensuring data persistence, integrity, and consistency through transaction management and relational constraints.

- **Frontend Technologies**

Modern frontend technologies such as HTML, CSS, JavaScript, and frameworks/libraries like Angular, React, or Vue.js may be employed to develop responsive and interactive user interfaces for seamless user interaction.

- **Continuous Integration and Deployment (CI/CD)**

CI/CD pipelines may be implemented using tools like Jenkins, GitLab CI/CD, or GitHub Actions to automate build, test, and deployment processes, ensuring rapid and reliable delivery of updates and enhancements.

Approach

The development of the Ebook Library Management System follows a structured approach and employs various methodologies and techniques to ensure the successful implementation of the system. Here's an elaboration on the approach and methodologies/techniques used:

Requirements Analysis

The development process begins with a comprehensive analysis of requirements gathered from stakeholders, including users, administrators, and other relevant parties. This analysis helps define the scope, functionalities, and constraints of the system.

Agile Software Development

Agile methodologies, such as Scrum or Kanban, are adopted to manage the project in an iterative and incremental manner. This approach allows for continuous feedback, flexibility in accommodating changes, and early delivery of valuable features.

User-Centric Design

The design of the system prioritizes the needs and preferences of end-users to ensure usability, accessibility, and overall user satisfaction. User stories, personas, and wireframes may be used to capture user requirements and design intuitive interfaces.

Iterative Development Process

The development process is divided into multiple iterations or sprints, each focusing on implementing specific features or functionalities. At the end of each iteration, working software is delivered, reviewed, and refined based on feedback.

Continuous Integration and Testing

Continuous integration practices are employed to integrate code changes into a shared repository frequently. Automated testing, including unit tests, integration tests, and end-to-end tests, ensures the stability and quality of the codebase.

Code Review and Quality Assurance

Regular code reviews are conducted to assess the quality, readability, and adherence to coding standards. Quality assurance practices, such as static code analysis, code coverage analysis, and performance testing, are employed to identify and address issues early in the development process.

Modular and Component-Based Development

The system architecture is designed to be modular and component-based, promoting code reuse, maintainability, and scalability. Components are developed independently and integrated seamlessly into the overall system architecture.

Version Control and Collaboration

Version control systems, such as Git, are used to manage code changes, track revisions, and facilitate collaboration among development team members. Branching strategies, pull requests, and code reviews enhance collaboration and code quality.

By adopting these approaches and methodologies/techniques, the development team ensures the efficient and effective delivery of the Ebook Library Management System, meeting the needs and expectations of stakeholders while maintaining high standards of quality and reliability.

3.2 Dataset

In the context of the Ebook Library Management System, the term "dataset" may refer to the collection of data used within the system for various purposes, such as storing information about ebooks, users, plans, navigation history, and more. Here's an elaboration on the dataset used in the system:

- Ebook Dataset
- User Dataset
- Plan Dataset
- Navigation Dataset
- Genre Dataset
- Subscribed User Dataset

- Visited User Dataset

dataset in the Ebook Library Management System plays a crucial role in storing, organizing, and managing various types of data essential for system functionality, user interactions, and administrative tasks. It forms the backbone of the system's information architecture and enables seamless operation and user experience.

3.1.3 Model Description

In the context of the Ebook Library Management System, the "Model Description" typically refers to the structure and composition of the data models used to represent various entities within the system. Here's an elaboration on the model description:

i. Ebook Model –

The Ebook model represents digital books available in the library. It includes attributes such as title, author, number of pages, content (ebook text), genre, and associated metadata. This model allows the system to store and manage information about individual ebooks, enabling functionalities like browsing, searching, and accessing content.

ii. User Model –

The User model represents registered users of the Ebook Management System. It includes attributes like user ID, name, email, password (encrypted), gender, registration date, and subscription status. This model facilitates user authentication, profile management, and subscription tracking.

iii. Plan Model –

The Plan model describes subscription plans offered by the system. It includes attributes such as plan ID, name, duration (in months), price, and the number of subscribed users. This model enables plan management, pricing strategies, and subscription tracking.

iv. Genre Model –

The Genre model represents different literary genres or categories to which ebooks belong. It typically includes attributes like genre ID and genre name. This model aids in organizing and categorizing ebooks based on their thematic content, facilitating easier discovery and navigation for users.

v. Navigation Model –

The Navigation model tracks the navigation history of users within the ebook library system. It records user interactions such as ebook views, page visits, bookmarks, and progress indicators. This model captures details like user ID, ebook ID, timestamp, and specific actions performed, enabling personalized recommendations and content tracking.

vi. Subscribed User Model –

The Subscribed User model represents users who have subscribed to one of the available plans in the system. It links users to their subscribed plans and tracks subscription-related details such as registration date, expiry date, and associated ebooks. This model facilitates subscription management and access control.

vii. Visited User Model –

The Visited User model stores information about users who have visited the system, whether they are registered subscribers or anonymous visitors. It includes attributes like email, password (encrypted), name, gender, and other relevant details. This model supports user authentication, registration processes, and personalized user experiences.

Overall, the model description outlines the structure and attributes of the data models used within the Ebook Library Management System, providing a foundation for data storage, manipulation, and retrieval functionalities.

DEFINITIONS, ACRONYMS AND THE ABBREVIATIONS

- **E-book manager**

Refers to the super user who is the Central Authority who has been vested with the privilege to manage the entire system.

- **User**

One who wishes to obtain the Books.

- **Visitor**

One who visits to obtain Books.

- **Administrator**

One who manages and maintain Books.

NORMAL USER -

USER LOGIN

Description of feature

This feature used by the user to login into system. They are required to enter user id and password before they are allowed to enter the system .The user id and password will be verified and if invalid id is there user is allowed to not enter the system.

Functional requirements

-user id is provided when they register

-The system must only allow user with valid id and password to enter the system

-The system performs authorization process which decides what user level can acess to.
-The user must be able to logout after they finished using system.

REGISTER NEW USER

Description of feature

This feature can be performed by all users to register new user to create account.

Functional requirements

-System must be able to verify information

-System must be able to delete information if information is wrong

REGISTER NEW BOOK

Description of feature

This feature allows to add new books to the library.

Functional requirements

- System must be able to verify information.
- System must be able to enter number of copies into table.
- System must be able to not allow two books having same book id.

SEARCH BOOK

DESCRIPTION OF FEATURE

This feature is found in book maintenance part . we can search book based on book id, book name , publication or by author name.

Functional requirements

- System must be able to search the database based on select search type
- System must be able to filter book based on keyword entered
- System must be able to show the filtered book in table view

A use case diagram is a visual representation of a user's potential interactions with a system.

Actors involved:

1. User
2. Administrator

The E-book use cases in our system are:

1. Login
2. Register
3. Search book
4. Payment
5. Publisher

6. Update

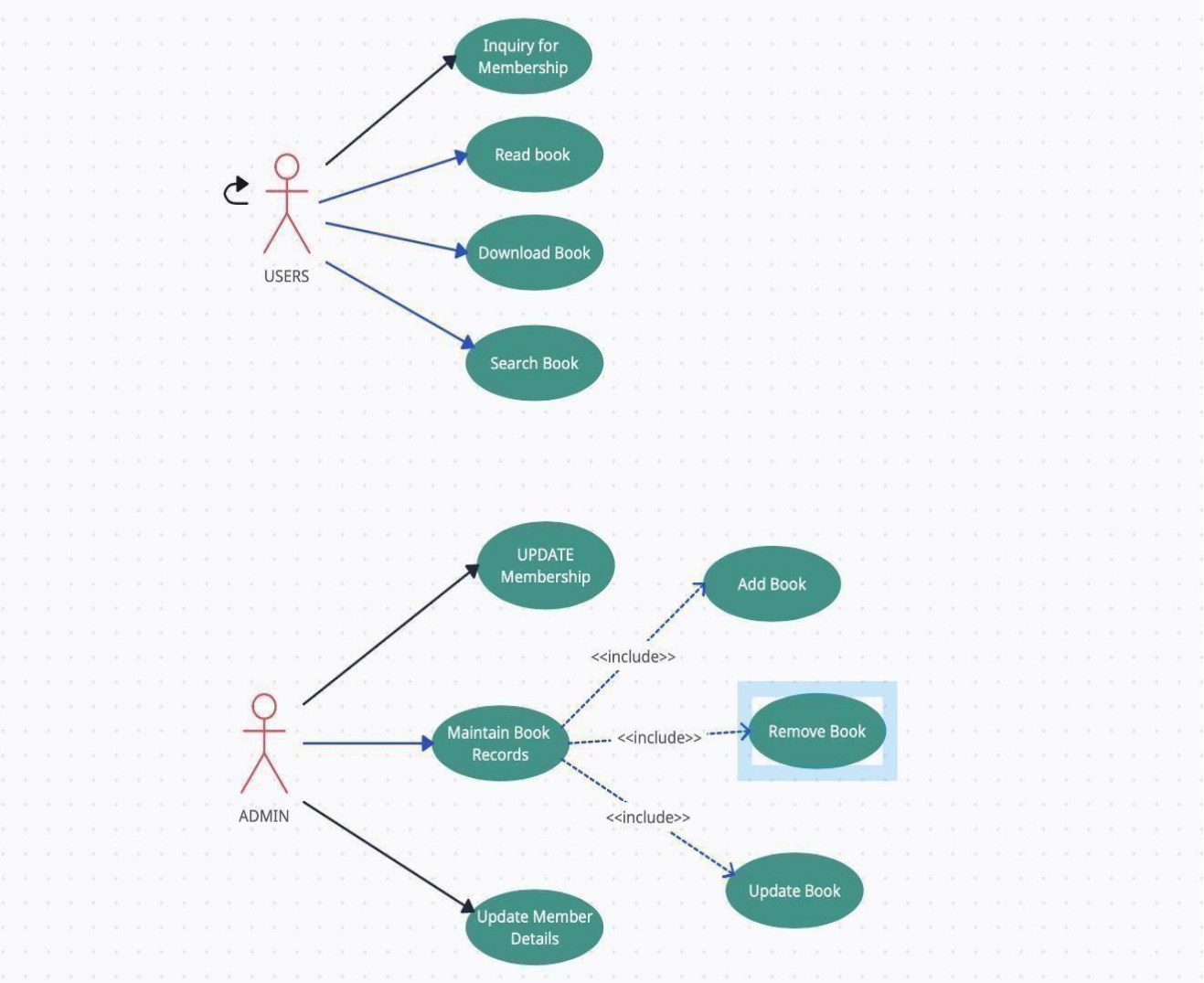


Fig 3.1 Data Flow Diagram

ACTIVITY DIAGRAM:

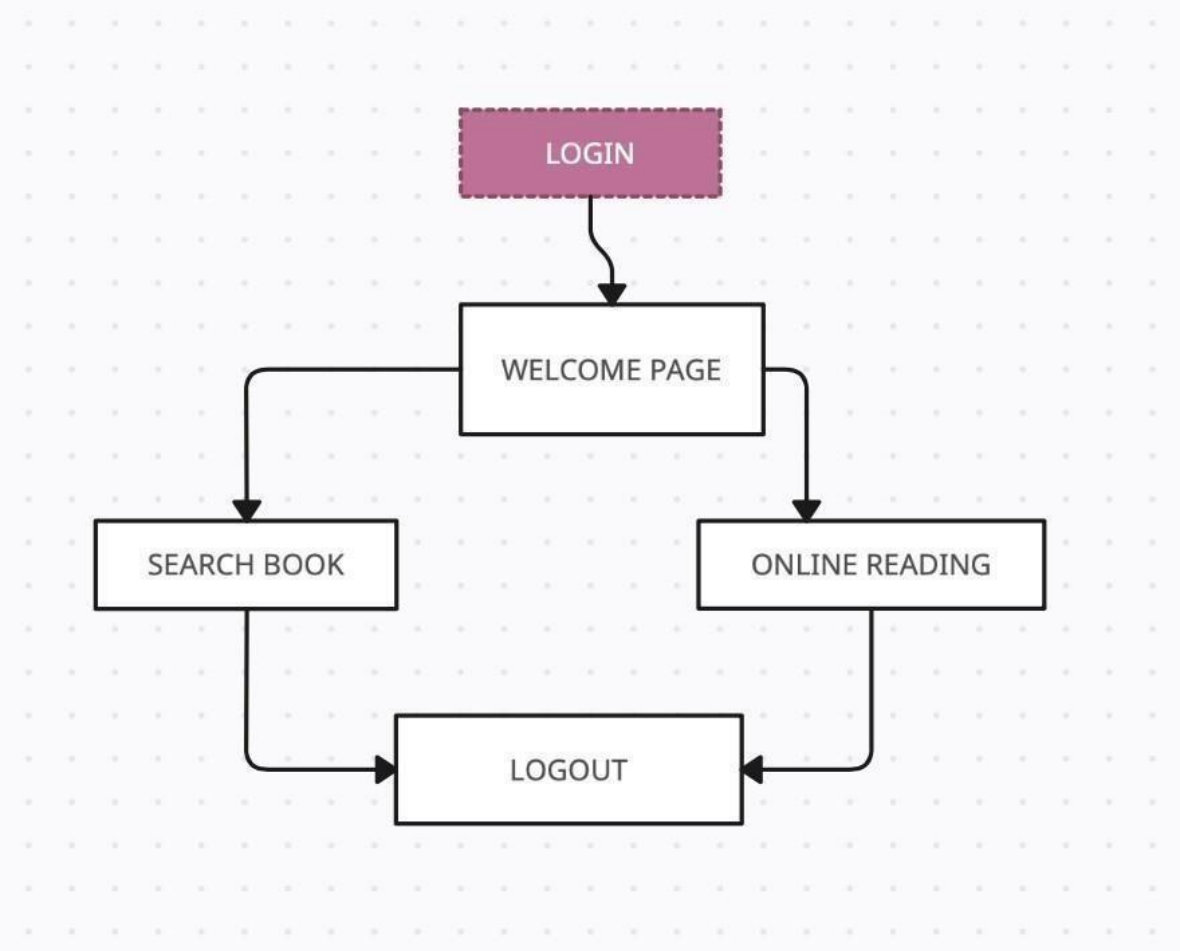
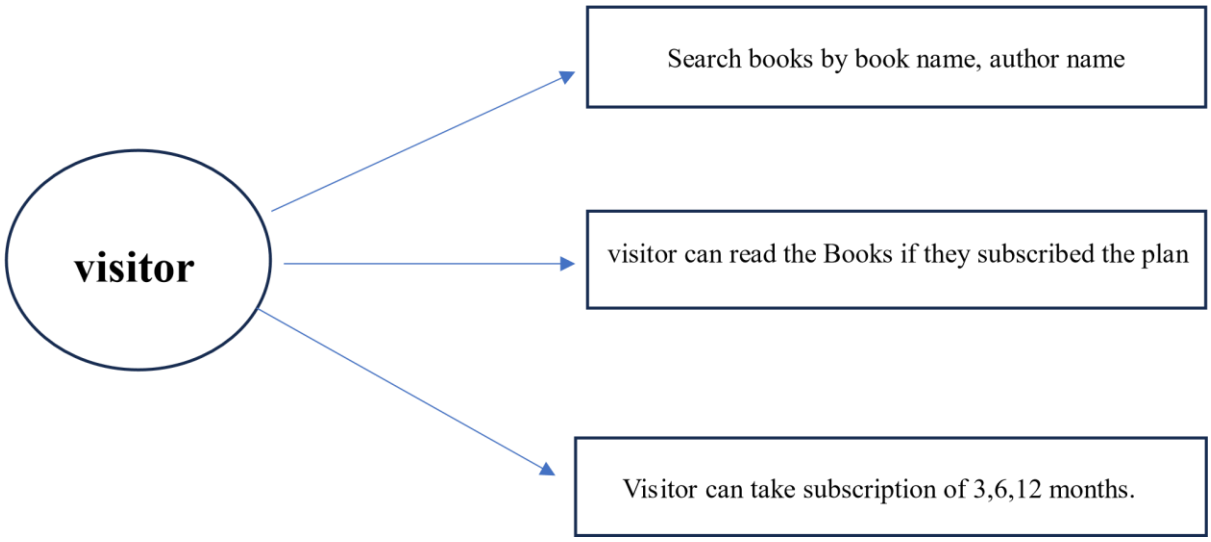


Fig 3.2 Activity Diagram E-Book

USE CASE DIAGRAM FOR VISITOR



After Entering to the Homepage of the website , Visitor can choose the user USER LOGIN option where they are asked to enter username and password , and if he/she is a valid user then a user login page will be display.

Chapter 4 Implementation

Use of Java, React Platform for writing the code with STS, **VISUAL STUDIO CODE**, **OpenCV**

1. Hardware and Software Configuration:

Hardware Configuration:

- CPU: 8 GB RAM, Quad core processor
- GPU: 16GB RAM **Nvidia's GTX 1080Ti**

Proposed System:

To solve the inconveniences as mentioned in the existing system, an **Ebook** is proposed. The proposed system contains the following features:

- The Visitor will register them through Online.
- Individually each member will have his account through which he can access the information he needs.
- Book details like authors, number of copies totally maintained by library, present available number of books, reference books, nonreference books etc.
  all this information can be made handy.
- Regarding the members designation.
- Issue dates and returns of each member is maintained separately and fine charged if there is any delay in returning the book.
- Administrator can add, update the books.
- Time consuming is low, gives accurate results, reliability can be improved with the help of security.

SYSTEM DESIGN

ER Diagram –

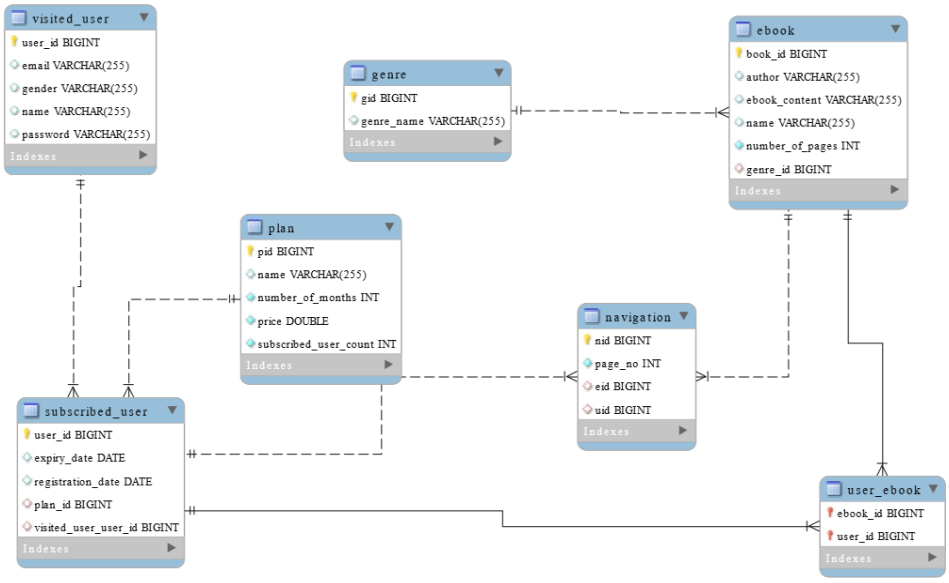


Table from database –

```
mysql> show tables;
+--------------------+
| Tables_in_proji3   |
+--------------------+
| ebook              |
| genre              |
| navigation         |
| plan               |
| subscribed_user    |
| user_ebook         |
| visited_user       |
+--------------------+
7 rows in set (0.00 sec)
```

```
mysql> desc ebook;
+-----------------+--------------+------+-----+---------+----------------+
| Field           | Type         | Null | Key | Default | Extra          |
+-----------------+--------------+------+-----+---------+----------------+
| book_id         | bigint       | NO   | PRI | NULL    | auto_increment |
| author          | varchar(255) | YES  |     | NULL    |                |
| ebook_content   | varchar(255) | YES  |     | NULL    |                |
| name            | varchar(255) | YES  |     | NULL    |                |
| number_of_pages | int          | NO   |     | NULL    |                |
| genre_id        | bigint       | YES  | MUL | NULL    |                |
+-----------------+--------------+------+-----+---------+----------------+
6 rows in set (0.01 sec)
```

```
mysql> desc genre;
+------------+--------------+------+-----+---------+----------------+
| Field      | Type         | Null | Key | Default | Extra          |
+------------+--------------+------+-----+---------+----------------+
| gid        | bigint       | NO   | PRI | NULL    | auto_increment |
| genre_name | varchar(255) | YES  |     | NULL    |                |
+------------+--------------+------+-----+---------+----------------+
2 rows in set (0.00 sec)
```

```
mysql> desc navigation;
+---------+--------+------+-----+---------+----------------+
| Field   | Type   | Null | Key | Default | Extra          |
+---------+--------+------+-----+---------+----------------+
| nid     | bigint | NO   | PRI | NULL    | auto_increment |
| page_no | int    | NO   |     | NULL    |                |
| eid     | bigint | YES  | MUL | NULL    |                |
| uid     | bigint | YES  | MUL | NULL    |                |
+---------+--------+------+-----+---------+----------------+
4 rows in set (0.00 sec)
```

```
mysql> desc plan;
+----------------------+--------------+------+-----+---------+----------------+
| Field                | Type         | Null | Key | Default | Extra          |
+----------------------+--------------+------+-----+---------+----------------+
| pid                  | bigint       | NO   | PRI | NULL    | auto_increment |
| name                 | varchar(255) | YES  |     | NULL    |                |
| number_of_months     | int          | NO   |     | NULL    |                |
| price                | double       | NO   |     | NULL    |                |
| subscribed_user_count | int          | NO   |     | NULL    |                |
+----------------------+--------------+------+-----+---------+----------------+
5 rows in set (0.00 sec)
```

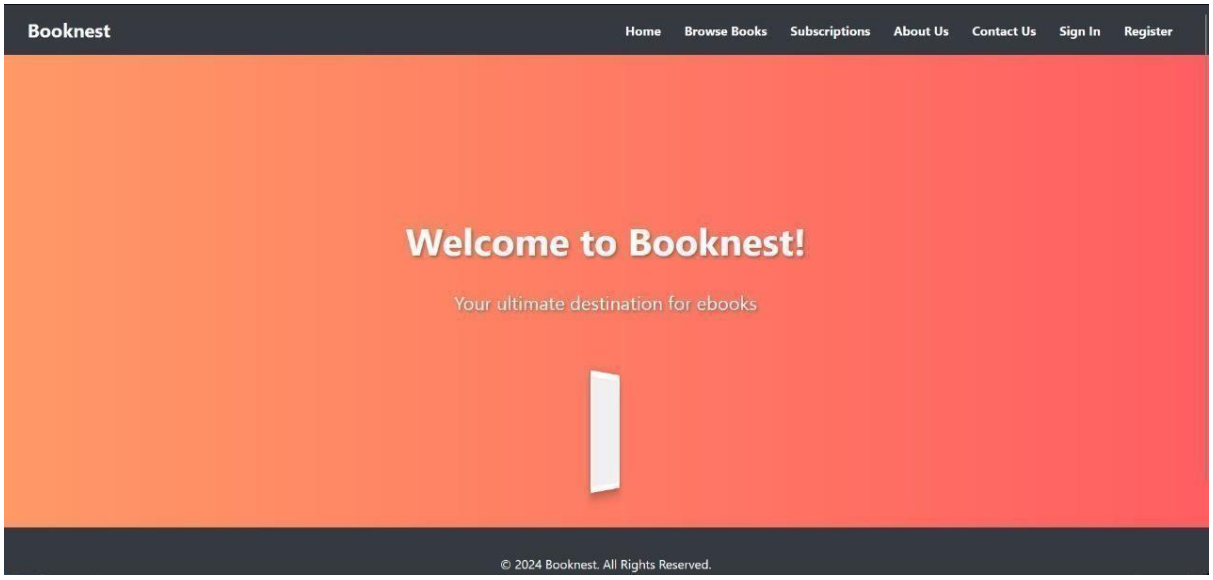
```
mysql> desc subscribed_user;
+---------------------+--------+------+-----+---------+----------------+
| Field               | Type   | Null | Key | Default | Extra          |
+---------------------+--------+------+-----+---------+----------------+
| user_id             | bigint | NO   | PRI | NULL    | auto_increment |
| expiry_date         | date   | YES  |     | NULL    |                |
| registration_date   | date   | YES  |     | NULL    |                |
| plan_id             | bigint | YES  | MUL | NULL    |                |
| visited_user_user_id | bigint | YES  | MUL | NULL    |                |
+---------------------+--------+------+-----+---------+----------------+
5 rows in set (0.00 sec)
```

```
mysql> desc user_ebook;
+-----------+--------+------+-----+---------+-------+
| Field     | Type   | Null | Key | Default | Extra |
+-----------+--------+------+-----+---------+-------+
| ebook_id  | bigint | NO   | PRI | NULL    |       |
| user_id   | bigint | NO   | PRI | NULL    |       |
+-----------+--------+------+-----+---------+-------+
2 rows in set (0.00 sec)
```

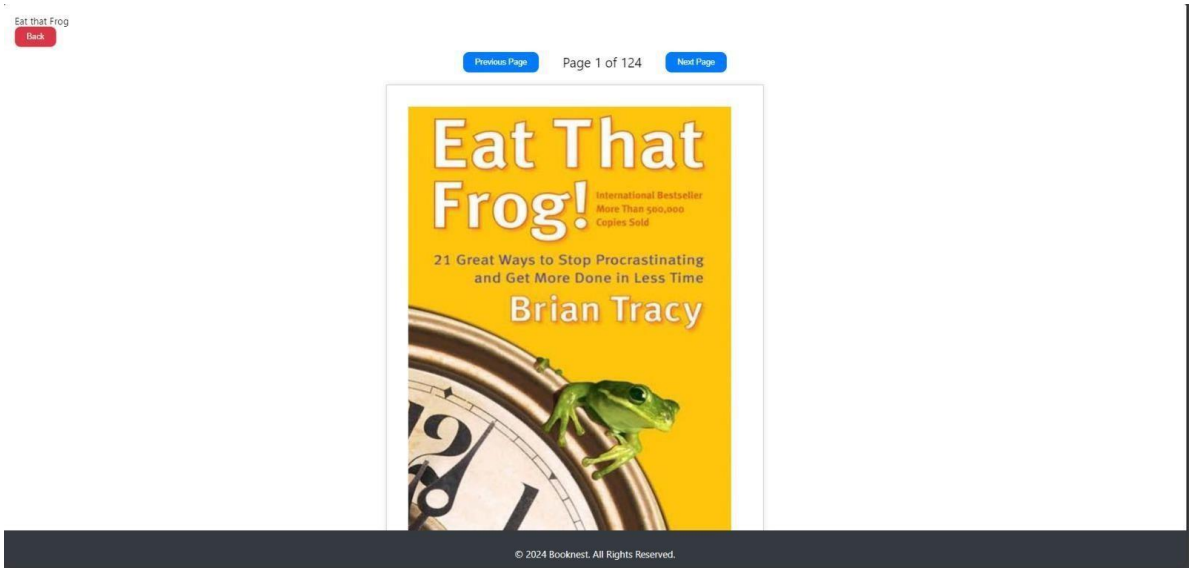
```
mysql> desc visited_user;
+----------+--------------+------+-----+---------+----------------+
| Field    | Type         | Null | Key | Default | Extra          |
+----------+--------------+------+-----+---------+----------------+
| user_id  | bigint       | NO   | PRI | NULL    | auto_increment |
| email    | varchar(255) | YES  |     | NULL    |                |
| gender   | varchar(255) | YES  |     | NULL    |                |
| name     | varchar(255) | YES  |     | NULL    |                |
| password | varchar(255) | YES  |     | NULL    |                |
+----------+--------------+------+-----+---------+----------------+
5 rows in set (0.00 sec)
```

SYSTEM IMPLEMENTATION

Screenshot for homepage



Screenshot of book available.


Eat that Frog
Back
Previous Page
Page 1 of 124
Next Page
Eat That Frog!
International Bestseller
More Than 500,000
Copies Sold
21 Great Ways to Stop Procrastinating
and Get More Done in Less Time
Brian Tracy
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Chapter 5 Result

In the context of the Ebook Library Management System, the "Results" typically refer to the outcomes or achievements obtained after implementing and testing the system.

Results from functionality testing include verifying that all core functionalities of the system work as expected. This involves testing features such as user registration, login, ebook browsing, searching, subscription management, ebook reading, and navigation tracking.

Performance testing results assess the system's responsiveness, scalability, and resource usage under various loads and conditions. This includes evaluating response times for different operations, analyzing memory and CPU usage, and assessing the system's ability to handle concurrent users and large datasets.

Results from security assessments determine the effectiveness of security measures implemented in the system. This involves checking for vulnerabilities such as injection attacks, broken authentication, sensitive data exposure, and inadequate access controls. The results may include a list of identified vulnerabilities along with recommendations for mitigating them.

Usability testing results provide insights into how easy and intuitive the system is to use from an end user's perspective. This includes assessing factors such as user interface design, navigation flow, clarity of instructions, and overall user experience. Results may include feedback from test users, usability metrics, and recommendations for improving usability.

Results related to reliability and stability assess the system's robustness and resilience in real-world scenarios. This involves monitoring system uptime, tracking error rates, analyzing crash reports, and evaluating the system's ability to recover from failures gracefully. Results may include metrics such as mean time between failures (MTBF) and mean time to recover (MTTR).

Overall, the results obtained from testing and evaluation activities provide valuable insights into the system's functionality, performance, security, usability, reliability, and compliance, helping to validate the system's success and identify areas for refinement and improvement.

Chapter 6 Conclusion

6.1 Conclusion

In the E-book Library Management System, the "Conclusion" section summarizes the key findings, outcomes, and implications derived from the development, implementation, and evaluation of the system.

The conclusion begins by summarizing the achievements and milestones accomplished throughout the project. This includes highlighting the successful completion of various development tasks, such as designing and implementing core functionalities, integrating extemal components, and addressing project requirements.

-Next, the conclusion evaluates the extent to which the project objectives and specifications were met. It assesses whether the system fulfills its intended purpose, meets user needs, and aligns with stakeholder expectations. This evaluation provides insights into the project's overall success and identifies any areas where objectives may not have been fully achieved.

The conclusion discusses the results obtained from testing, evaluation, and user feedback. It reflects on the strengths and weaknesses of the system, highlighting notable achievements, as well as any challenges or limitations encountered during development and implementation. This discussion helps contextualize the significance of the project outcomes.

Following the discussion of results, the conclusion explores the implications and impact of the Ebook Library Management System. It considers how the system contributes to improving access to ebooks, enhancing user experience, promoting literacy, and supporting educational or recreational reading activities. Additionally, it discusses potential benefits for stakeholders, such as libraries, publishers, educators, and readers.

6.2 Future Scope

Finally, the conclusion outlines potential avenues for future development, enhancement, or research related to the Ebook Library Management System. This may include recommendations for additional features, improvements to existing functionalities, exploration of new technologies, or expansion into new markets or user segments. It sets the stage for ongoing innovation and evolution of the system beyond the current project scope.

Overall, the conclusion serves as a comprehensive reflection on the Ebook Library Management System project, summarizing its achievements, evaluating its outcomes, discussing implications, and providing insights for future endeavors in the field of digital library management.

Chapter 7 References

_http://www.w3schools.com/html/html.asp

http://www.Udemy.com/css/css_background.asp

http://www.w3schools.com/js/js_datatypes.asp