CHAPTER 1

INTRODUCTION

1.1. Introduction

With technology infiltrating every part of our lives, the way we interact with literature is experiencing a significant shift. Online book-reading websites have completely transformed how people engage with written content. This project aims to explore digital reading and introduce an online book collection system that will revolutionize the reading experience.

Online book websites allow readers with different tastes in literature to navigate through various categories and find books that suit their preferences. At the heart of our project lies a vision to create an immersive reading experience that transcends the limitations of traditional mediums. By using the power of digital platforms, we seek to empower readers to explore, discover, and engage with an array of literary works. Our goal is not merely to replicate the experience of reading a physical book but to enhance it.

People have traditionally read literature in printed formats such as physical books, which can be cumbersome to transport. In this book collection system, the readers have easy access to the book they desire by probing with the book name. Users can register with their names on the websites and log into the websites to read the books.

1.2. Problem Definition

In the past, accessing literature physically posed significant challenges for readers. They had to spend time searching for books in stores. Additionally, once a book was published, it took considerable time for it to reach bookstores, limiting availability. Furthermore, readers had to carry physical books with them, adding to the inconvenience.

Physical books are prone to damage and gradual deterioration. Traditional libraries have insufficient copies of popular or in-demand books but in online platform readers can access books if it is posted in online platform.

1.3. Objectives

- To read books by searching and downloading books in pdf form in an online book collection platform.
- To add books of the desire in favorites section.

1.3.1. Scope

The scopes of the project are listed below:

- Easy access to wide range of books to users.
- Easy track of user's favorite book collection.
- Access to books download to read books even when user is offline.

1.3.2. Limitations

The limitations of the project are listed below:

- User cannot add books on their own.
- There is no feature to purchase books.
- Book are not recommended by the system.

1.4. Report Organization

Chapter 1 gives the brief introduction the system which is to be developed and the main objective to develop the system. Problem definition defines the problems that we had with physical books. We also figured out scope and limitations about the Favorite book collection system which has been created.

Chapter 2 reviews the related work. General concept of the project was discussed. Review of similar paper was done.

Chapter 3 specifies the system analysis of the project and has different data modeling diagram like ER diagram and System design like Database Schema Design, Interface Design, Physical DFD.

Chapter 4 deals with implementing and testing of the existing system. Different tools which were used for implementation was figured out. After implementing the system unit testing and system testing was done.

Chapter 5 provides us with the conclusion and future recommendations.

CHAPTER 2

Background Study and Literature Review

2.1. Background Study

In the present context, there is a high value for an online book collection system. The apps to read books are a great solution to that matter, you can take as many books as you wish with you, without occupying space, or lifting a heavy bag. As the world is turning more towards digital platforms physical books demand is decreasing drastically. There are a lot of online books collection sites available. We main site that we decided to study for this system is Kindle and Wattpad. Kindle has its own bookstore where you can buy millions of titles in different languages, including comics and audiobooks [1]. Wattpad is the right platform for that, you are going to find thousands of titles released by writers who are starting now, and put their works available on the app [1].

Being inspired by these platforms the system that has been created is going to have feature to add books to their favorite list and can be removed by users as they wish. Being able to add books to their personal list helps user keep track of their personal book list in an easy way**.**

2.2. Literature Review

The paper called “The Rise of E-Reading” discusses the rise of E-Reading. The emergence of e-books has disrupted industries and institutions that have enjoyed relatively stable practices, policies, and businesses for decades. Widespread consumer interest in e-books began in late 2006 with the release of Sony Readers and accelerated after Amazon’s Kindle was unveiled a year later. By the end of 2011, there were widespread reports about the exploding demand for e-books, both for purchases and for borrowing from libraries [2].

In this technology-integrated era, reading literature works such as novels can be done easily. Among the platforms that provide many web-novels, Wattpad has become the most popular platform, particularly in Indonesia. Wattpad is an online platform that was developed for online reading and writing by Allen Lau and Ivan Yuen in 2006 (Reid, 2016). It offers easier ways to read web-novels. Besides the fact that it can be accessed through its website or the application

that can be downloaded for free, this platform offers many books that were published every day with many kinds of genres [3].

The reading habit of the print resources is day by day declining, and online reading is the order of the day among the youngsters. By planning the web usability in a more flexible and learnable way the Websites of Higher Educational Institutes can become more approachable and practically usable [4].

Despite rising e-book sales and readership in recent years, e-books are not yet positioned to replace print books. Both print books and e-books have unique attributes and serve distinct functions to meet people's reading needs, which may vary by individual demographic, contextual, and situational factors. The results of this study support the notion that e-books have firmly established a place in people's lives due to the fact that they allow people to access their favorite content in any place, at any time. As they stand, e-books and print books complement each other, providing the same content in two different media [5].

CHAPTER 3

System Analysis and Design

3.1. System Analysis

3.1.1. Requirement Analysis

Requirement Analysis is the most important step of a project. If the project team fails to capture all the necessary requirements for a solution, the project will be running with a risk. This may lead to many disputes and disagreements in the future, and as a result, the business relationship can be severely damaged**.** So, requirement analysis is a critical step in software development life cycle. In requirement analysis we focus on gather both functional and non-functional requirements of the project. It is important to gather requirements early on in the project to establish goals and objectives. A thorough understanding of the requirements is key to the successful development of the software.

i. Functional Requirement

A functional requirement outlines the services the system must offer. The most basic facility that is add to a site to read books is access to wide range of books. Books in the system can only be added and deleted by the admin. Users can read the available books as well as download those books so they could access them offline as well. The system also provides search facilities so that the required book can be found easily. The system also provides a reading list system which allows the user to add books to their reading list as to keep track of the books they are reading.

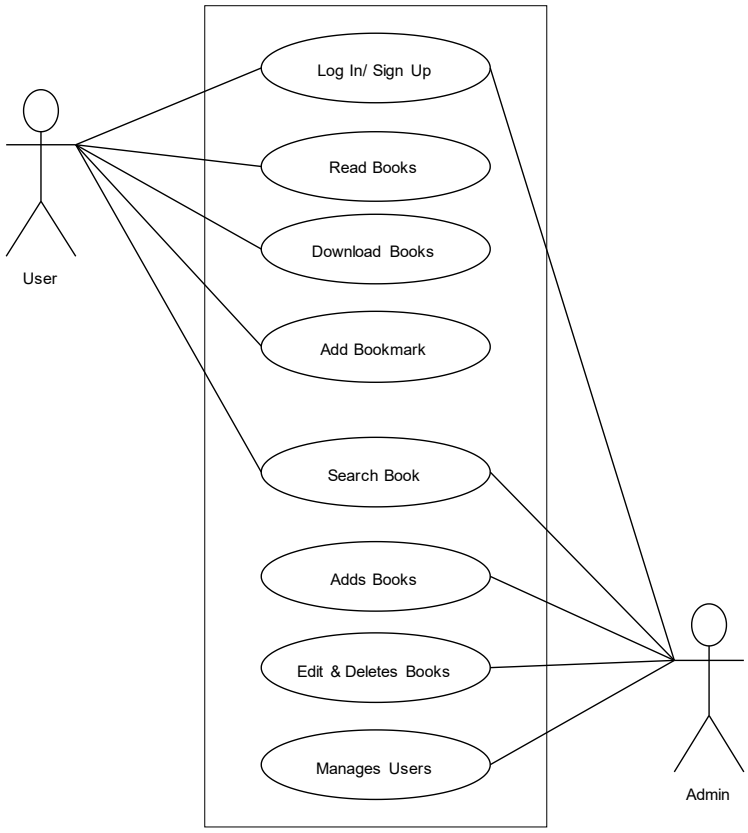


Fig 1: Use Case of Favorite book collection System

ii. Non-Functional Requirement

Non-functional requirements are the constraints that must also be adhered to during the development. Few of the non-functional facility that is included in the system is security, flexibility. It is going to be a secured site as it requires user login to add contents. No stranger could modify the content. It is going to be a flexible website as it automatically adjusts to fit multiple screen size.

3.1.2. Feasibility Analysis

Feasibility Studies are pieces of research done before a main study. They are used to estimate important parameters that are needed to design the main study [6]. As name suggests feasibility study is the feasibility analysis or it is a measure of the software product in terms of how much beneficial product development will be for the organization in a practical point of view. Feasibility study is carried out based on many purposes to analyze whether software product

will be right in terms of development, implantation, contribution of project to the organization etc.

i. Economic Feasibility

In Economic Feasibility study cost and benefit of the project is analyzed. The system is economically feasible. It does not require any addition hardware or software. Since the interface for this system is developed using the existing resources and technologies which are available for free. Besides that, we are intended to develop the simple website to read books which would make the users experience better. Computer is the only equipment required for development and deploying the system.

ii. Technical Feasibility

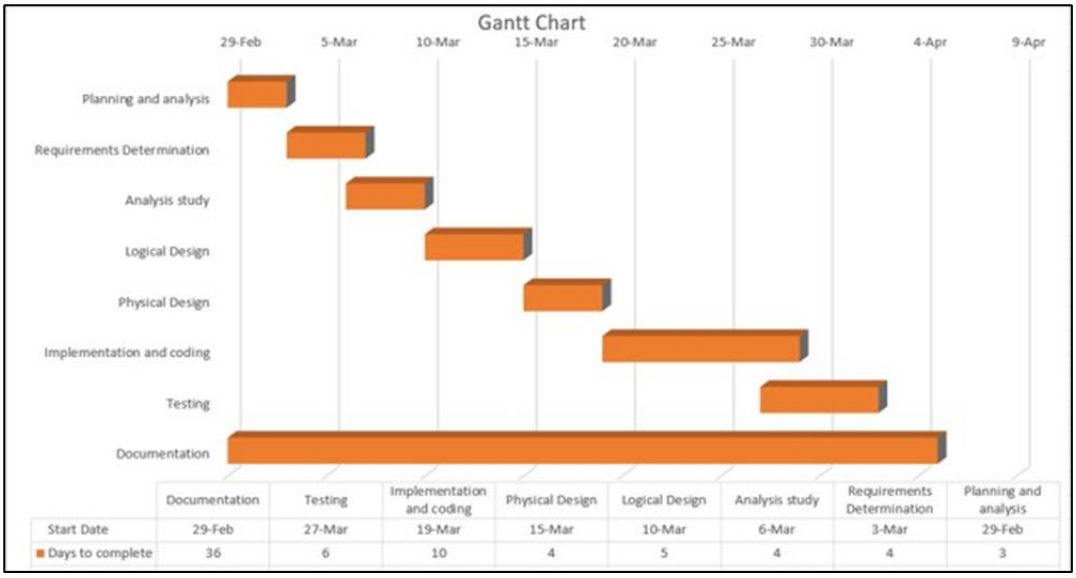
In Technical Feasibility current resources both hardware software along with required technology are analyzed/assessed to develop project. The work for the project can be done with the current equipment existing software technology and available personal. The system is going to use HTML, CSS, PHP, MySQL, JavaScript to create this web base application. These technical resources are easily available. The system can be upgraded if developed. Various platforms are available to build the system.

iii. Operational Feasibility

Operational Feasibility is the assessment of how well a proposed system or project can achieve its goals and satisfy the requirements of the users. The system is operationally feasible as it is very easy for the user to operate it. It only needs internet access and basic knowledge to use a website. The User Interface of the system is not that complex, so any person can use it easily.

iv. Schedule Feasibility

This project is practical in terms of scheduling considering that we have enough time period and the required schedule which helps to carry out this project more efficiently and effectively.



3.1.3. Data Modelling (ER-Diagram)

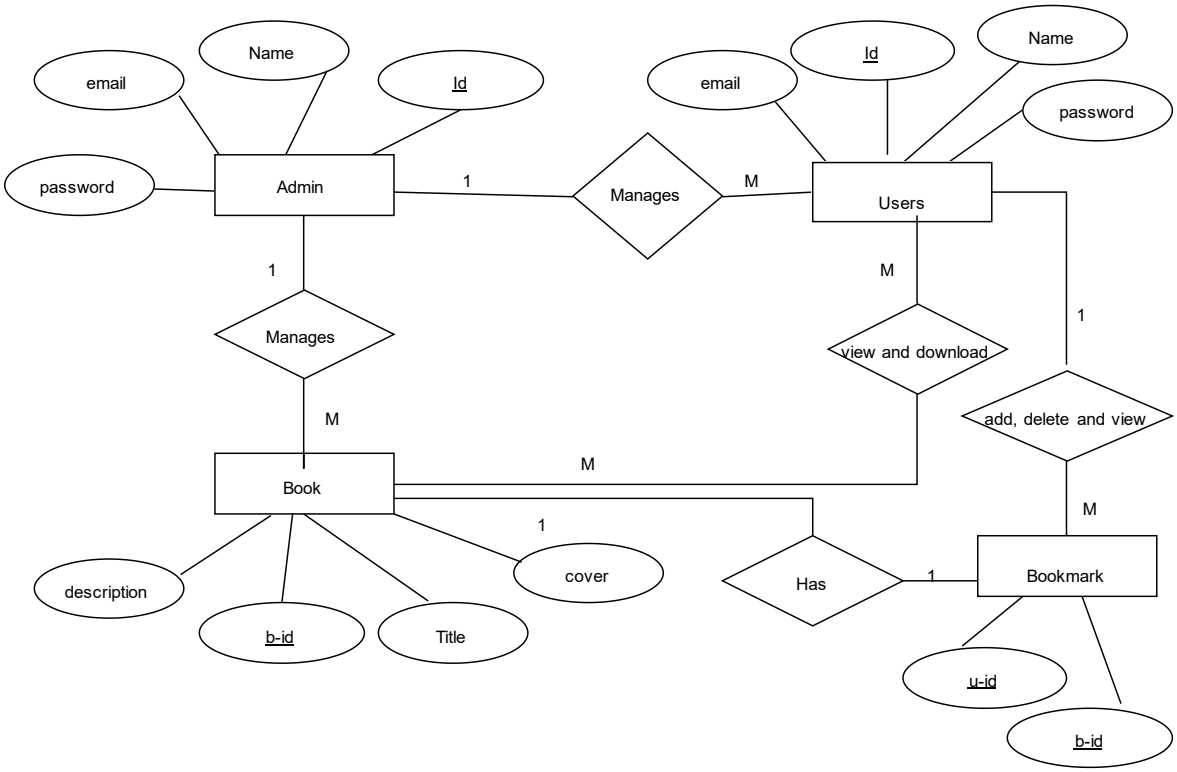


Fig 2: ER of Favorite book collection System

3.2. System Design

3.2.1. Database Schema Design

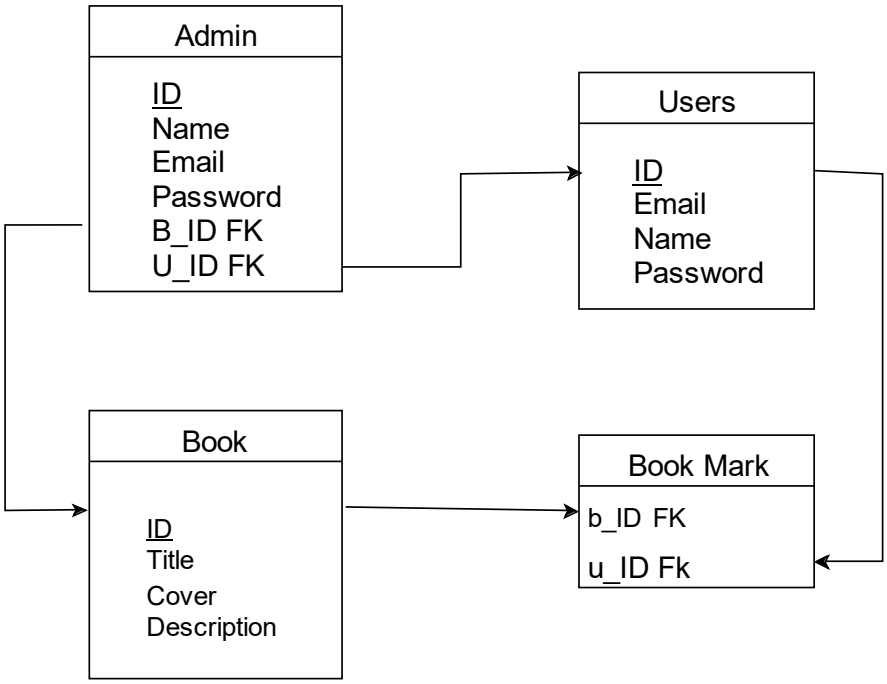
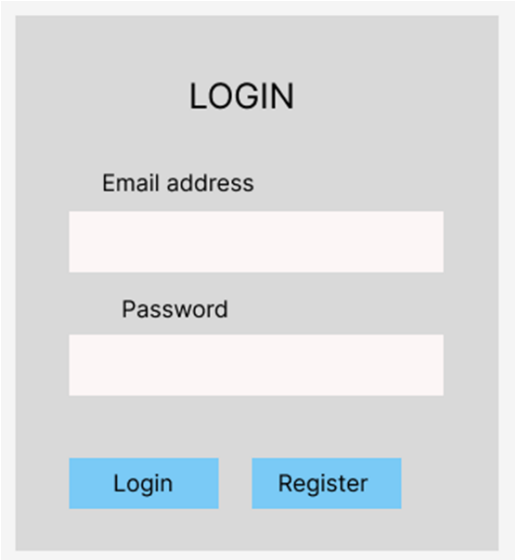


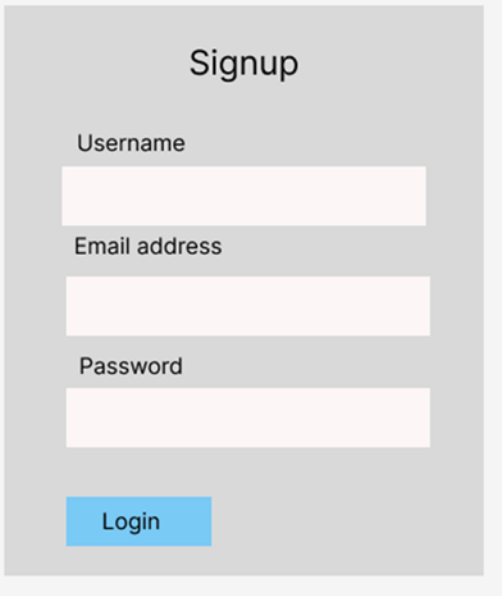
Fig 3: Schema Design of Favorite book collection System

3.2.2. Interface Design (UI Interface)

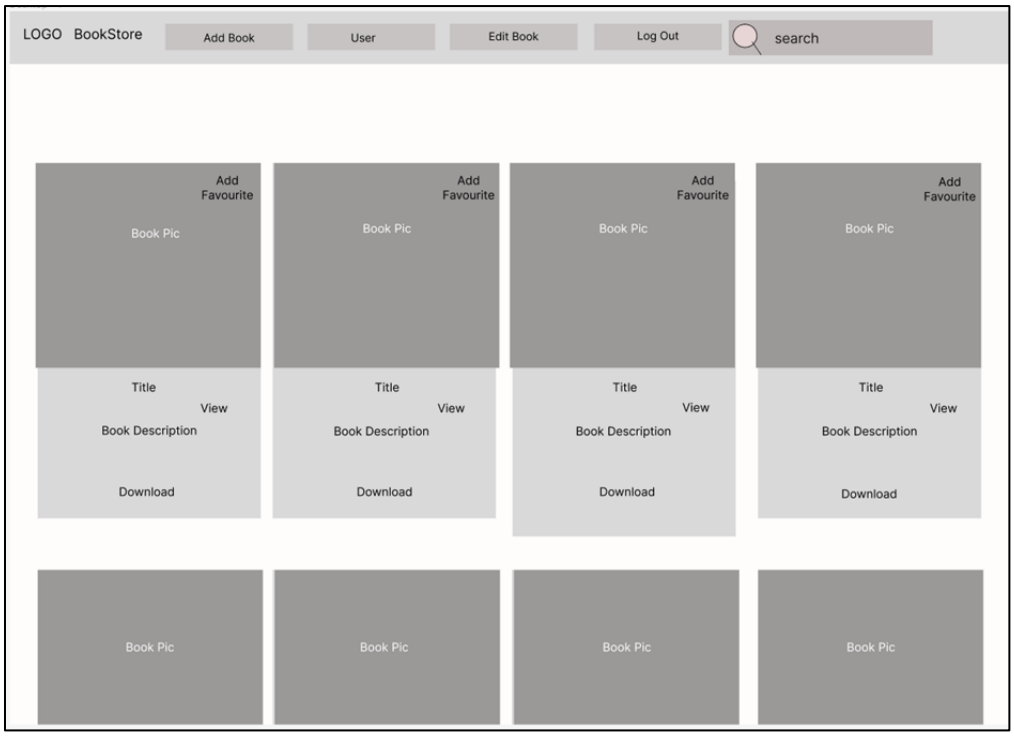
Login



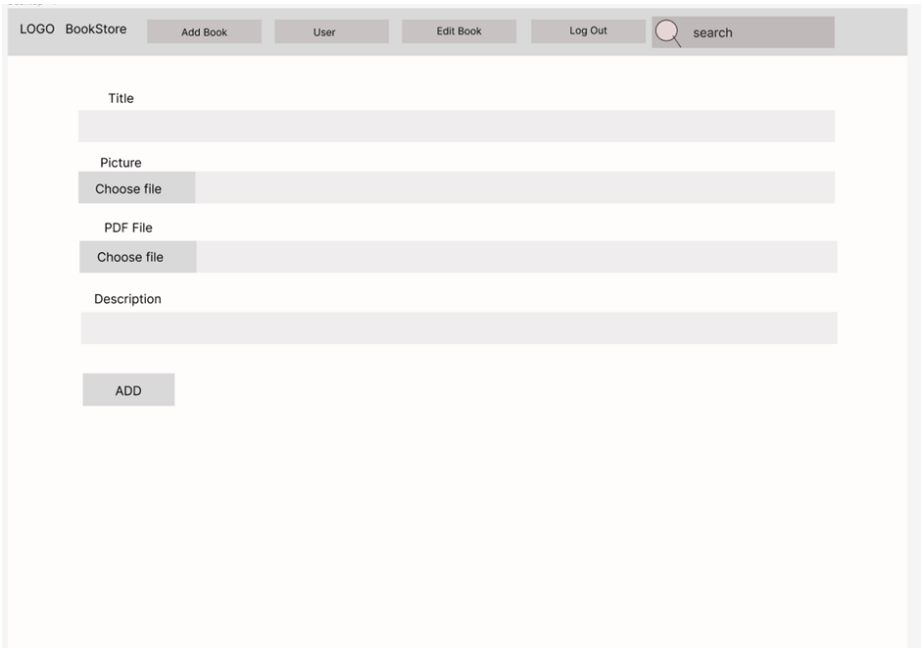
Sign up



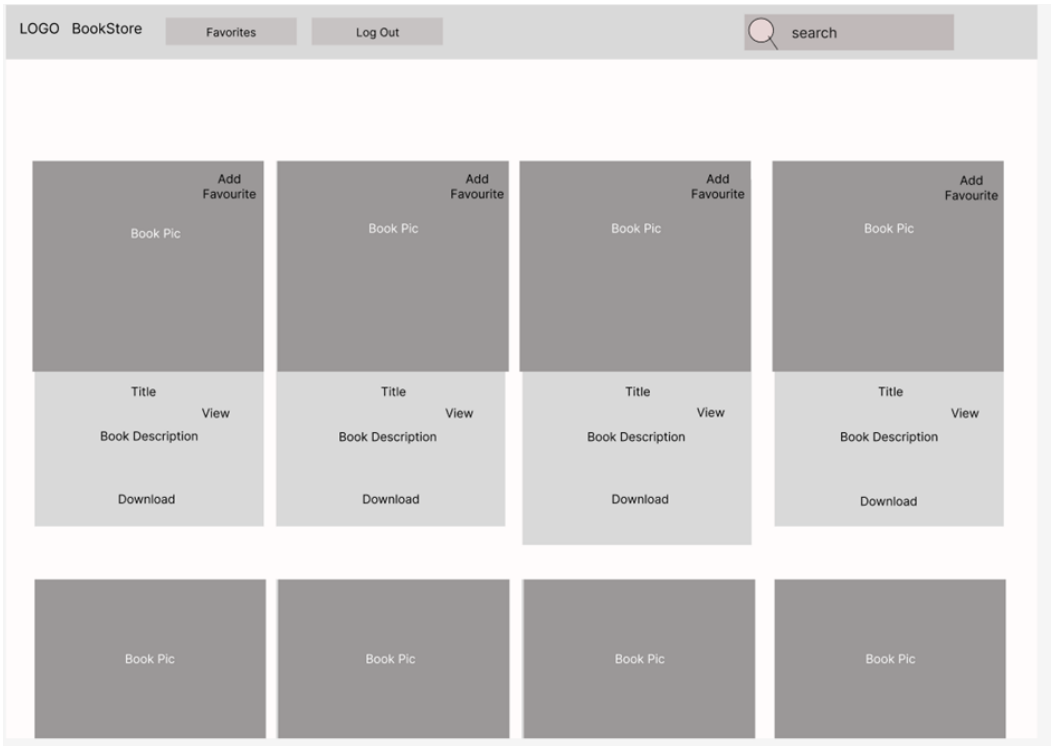
Admin



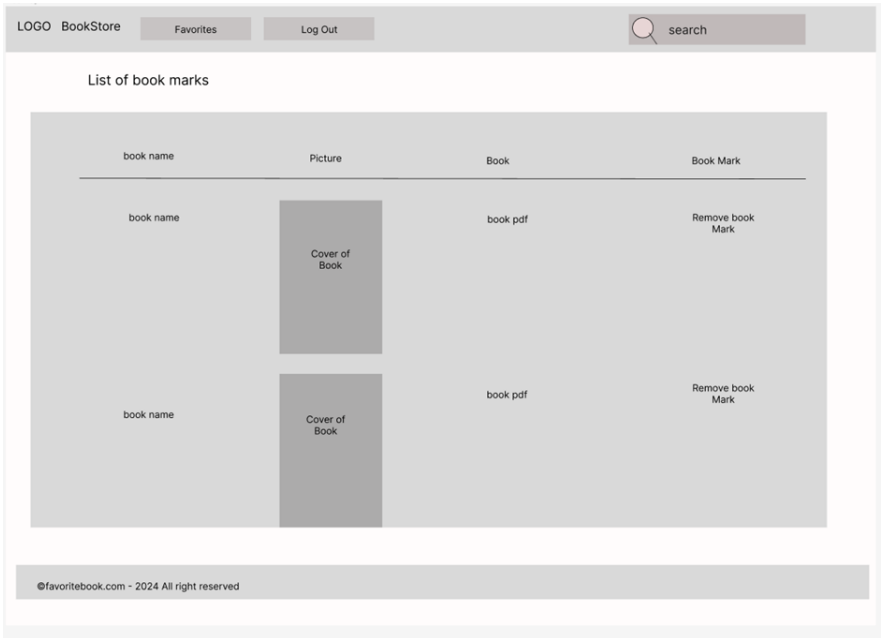
Admin add book



User



User favorites



3.2.3. Data Flow Diagram (DFD)

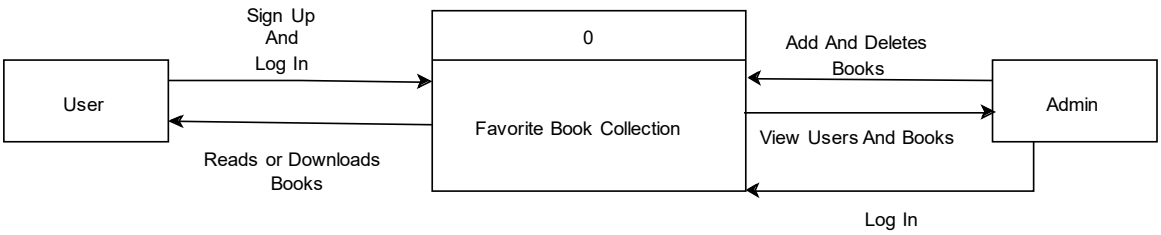


Fig 4: Level 0 DFD of Favorite book collection System

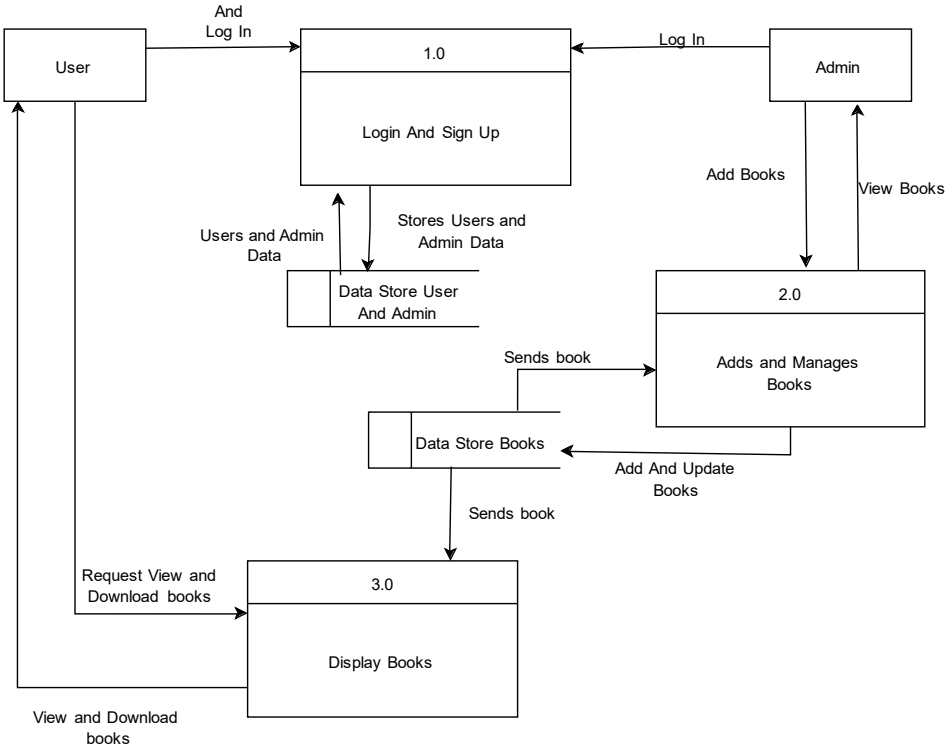


Fig 5: Level 1 DFD of Favorite book collection System

Chapter 4

Implementation and Testing

4.1. Implementation

Favorite online book collection system facilitates users to browse, search, and access a vast collection of books. The system consists of various components such as the user interface, server-side logic, and data storage.

4.1.1. Tools Used

PHP was decided upon as the main programming language for implementing this project. We used various tools as follows: -

- PHP:

PHP is used to generate dynamic page content. PHP is also used to start and close session and encrypt password here.

- HTML:

Website is totally based on html. It is used to display contents in different formats like title, body, etc.

- CSS and Bootstrap:

CSS and Bootstrap is used for both admin and user panel to make the website look attractive. CSS and bootstrap are used to attractive form, tables for cards and buttons.

- JavaScript:

JavaScript is used for the form validation in the website and to display messages to the invalid input.

- MySQL:

PHP is connected to database using MySQL commands. MySQL is used to insert, delete and update.

4.1.2. Implementation Details of Modules

The major functions of Favorite Book Collection System are:

User:

- View website:

This website allows users to easily view and search for the books they want by using the book's name. Users can access the book's pdf file for offline reading by either reading it online or downloading it onto their devices.

- To favorite the book:

This system provides the facility of providing the user an option to favorite their desired and wanted book on the website. This ensures that user can access the favorite books on their account and it stays on favorite section until they remove from favorites.

Admin:

- Manage Books:

Admin can view the books and manage the books of the websites like editing, adding and deleting the books.

- Manage Users:

Admin can view the number of the user present on the website and manage the users like delete the users.

- Database Interaction:

Connects to the database to retrieve book information, user data, and perform CRUD operations.

Chapter 5

Conclusion and Future Recommendations

5.1. Lesson Learnt

The whole system is practicable to read favorite books where user can set books to favorites and then read it later on. Users are facilitated with the provision of reading books, login, register and download the books.

5.2. Conclusion

In conclusion, the system is a web-based application where users can read books online. The registered users can view, download and add it to their favorites. The system solves the problem of accessing literature physically in the library for readers. They had to spend time searching for books in stores. The system also helps user to see books according to their genres.

5.3. Future Recommendations

The system can be extended in future adding the features like searching the book according to their genres. The system can involve providing only certain genres to the users. The system can be modified to provide feedback to the system's admin about anything.

APPENDIX I

SOME IMPORTANT CODE FUNCTIONS

User login

```php
<?php
session_start();
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>LOGIN</title>

    <!-- bootstrap 5 CDN-->
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/css/bootstrap.min.css" rel="stylesheet"
integrity="sha384-F3w7mX95PdgyTmZZMECAngseQB83DfGTowi0iMjiWaeVhAn4FJkqJByhZMI3AhiU" crossorigin="anonymous">

    <!-- bootstrap 5 Js bundle CDN-->
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/js/bootstrap.bundle.min.js"
integrity="sha384-/bQdsTh/da6pkI1MST/rWKFNjaCP5gBSY4sEBT38Q/9RBh9AH40zEOg7Hlq2THRZ"
crossorigin="anonymous"></script>

</head>
<body>
<?php
if(isset($_POST["login"])){
    $e=$_POST["email"];
    $p=md5($_POST["password"]);
    //echo"$email,$up"
    $sql = "SELECT * FROM prac WHERE email='$e' AND password='$p'";
    include("co.php");
    $qry=mysqli_query($conn, $sql) or die(mysqli_error($conn));
            //counting the affected rows\
    $count=mysqli_num_rows($qry);
    if($count==1)
    {
        while($row=mysqli_fetch_array($qry)){
            $nam=$row['name'];
            $i=$row['id'];
            $r=$row['role'];
        }
        if($r=="admin")
        {
            $_SESSION["id"] = $i;
            header("Location:store.php");
        }
        else{
            $_SESSION["id"] = $i;
            header("Location:mainbookmark.php");
        }
    }
    else
    {
        echo"<Script>alert('Wrong email or password');</script>";
    }
```

```
}
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>LOGIN</title>
    <!-- Bootstrap 5 CDN -->
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/css/bootstrap.min.css" rel="stylesheet"
integrity="sha384-F3w7mX95PdgyTmZZMECAngseQB83DfGTowi0iMjiWaeVhAn4FJkqJByhZMI3AhiU" crossorigin="anonymous">
</head>
<body>
    <div class="d-flex justify-content-center align-items-center" style="min-height: 100vh;">
        <form class="p-5 rounded shadow" style="max-width: 30rem; width: 100%" method="POST" onsubmit="return
validate()">
            <h1 class="text-center display-4 pb-5">LOGIN</h1>
            <div class="mb-3">
                <label for="exampleInputEmail1" class="form-label">Email address</label>
                <label for="exampleInputEmail1" class="form-label" id="labelm" style="color:red;
visibility:hidden;">Invalid</label>
                <input type="email" class="form-control" name="email" id="email" aria-
describedby="emailHelp">
            </div>
            <div class="mb-3">
                <label for="exampleInputPassword1" class="form-label">Password</label>
                <label for="exampleInputPassword1" class="form-label" id="labelpass" style="color:red;
visibility:hidden;">Invalid</label>
                <label for="exampleInputPassword1" class="form-label" id="labelpass2" style="color:red;
visibility:hidden;">Password greater than 8</label>
                <input type="password" class="form-control" name="password" id="password">
            </div>
            <button type="submit" class="btn btn-primary" name="login">Login</button>
            <button class="btn btn-primary" name="register"><a href='mainregister.php'
style="color:white;text-decoration: none;">Register</a></button>
        </form>
    </div>
    <!-- JavaScript validation function -->
    <script type="text/javascript">
    // JavaScript validation function
    function validate() {
        var en = document.getElementById("email");
        var pa = document.getElementById("password");
        // var emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;

        // Check if both email and password fields are empty
        if (en.value.trim() == "" && pa.value.trim() == "") {
            en.style.border = "solid 3px red";
            document.getElementById("labelm").style.visibility = "visible";
            pa.style.border = "solid 3px red";
            document.getElementById("labelpass").style.visibility = "visible";
            return false;
        }

        // Check if email field is empty
        if (en.value.trim() == "") {
            en.style.border = "solid 3px red";
            document.getElementById("labelm").style.visibility = "visible";
            return false;
        } else {
```

```
            // Hide the "Invalid" label for email
            document.getElementById("labelm").style.visibility = "hidden";
        }

        // Check if password field is empty
        if (pa.value.trim() == "") {
            pa.style.border = "solid 3px red";
            document.getElementById("labelpass").style.visibility = "visible";
            return false;
        } else {
            // Hide the "Invalid" label for password
            document.getElementById("labelpass").style.visibility = "hidden";
        }

        // Check if password length is less than 8 characters
        if (pa.value.trim().length < 8) {
            pa.style.border = "solid 3px red";
            document.getElementById("labelpass2").style.visibility = "visible";
            return false;
        } else {
            // Hide the "Password greater than 8" label
            document.getElementById("labelpass2").style.visibility = "hidden";
        }
        return true;
    }
</script>
</body>
</html>
```

Add to Favorite

```
<?php
session_start();
include("co.php");
if (isset($_GET['id']))
{
    $id = $_GET['id'];
    $uid=$_SESSION["id"] ;
    $sq = "INSERT into bookm(bid,uid) VALUES ($id,$uid)";
            $qry=mysqli_query($conn, $sq);
 }

$sql="SELECT * FROM book ORDER BY id";
$qry=mysqli_query($conn, $sql) or die(mysqli_error($conn));

?>
 <!DOCTYPE html>
 <html lang="en">
 <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Store</title>
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/bootstrap-
icons/1.11.3/font/bootstrap-icons.min.css"/>
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet"
integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC" crossorigin="anonymous">
```

```
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"
integrity="sha384-MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM"
crossorigin="anonymous"></script>
    <link rel="stylesheet" href="style.css">

  </head>
 <body>
 <nav class="navbar navbar-expand-lg navbar-light bg-light">
    <div class="container-xl">

        <p style=padding:10px;>
        <img src=img/book.jpg alt=fav style=width:52px;height:52px></a>
        </p>


     <a class="navbar-brand" href="mainbookmark.php">BookStore</a>
     <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-
label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
     </button>
     <div class="collapse navbar-collapse" id="navbarSupportedContent">
      <ul class="navbar-nav me-auto mb-2 mb-lg-0">
      <li class="nav-item">
          <a class="nav-link" href="favorites.php">Favorites</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="logout.php">Logout</a>
        </li>
      </ul>
      <form class="d-flex" method ="post" name="search" action="mainsearch.php">
        <input class="form-control me-2" type="search" name="search"placeholder="Search" aria-label="Search">
        <button class="btn btn-outline-success" name="submit" value="search">Search</button>
      </form>
     </div>
  </div>
 </nav>

 <div class="container py-3">
    <div class="row mt-5">
        <?php
        $count = mysqli_num_rows($qry);
        if ($count >= 1) {
            while ($row = mysqli_fetch_array($qry)) {
        ?>
                <div class="col-md-3 mt-3">
                    <div class="card h-100" style="width: 18rem;">
                        <a href="<?php echo 'mainbookmark.php?id=' . $row['id']; ?>"><img src=img/addf.png
alt=fav style=width:20px;height:20px;float:right;></a>
                        <img src="<?php echo "uploads/img/" . $row['Photo']; ?>" class="card-img-top"
style="width: 250px;height: 300px;" alt="...">
                        <div class="card-body d-flex flex-column">
                            <h5 class="card-title"><?php echo $row['title']; ?></h5>
                            <h5 class="card-title"><?php echo "<a href=uploads/file/" . $row['file'] .
"><button class='btn btn-outline-secondary' style='float:right;'>View</button></a>"; ?></h5>
                            <p class="card-text"><?php echo $row['description'] ?></p>
                            <div class="mt-auto">
                            <a href="<?php echo 'uploads/file/' . $row['file']; ?>" class="btn btn-primary w-
100" download>Download PDF</a>
                            </div>
                        </div>
```

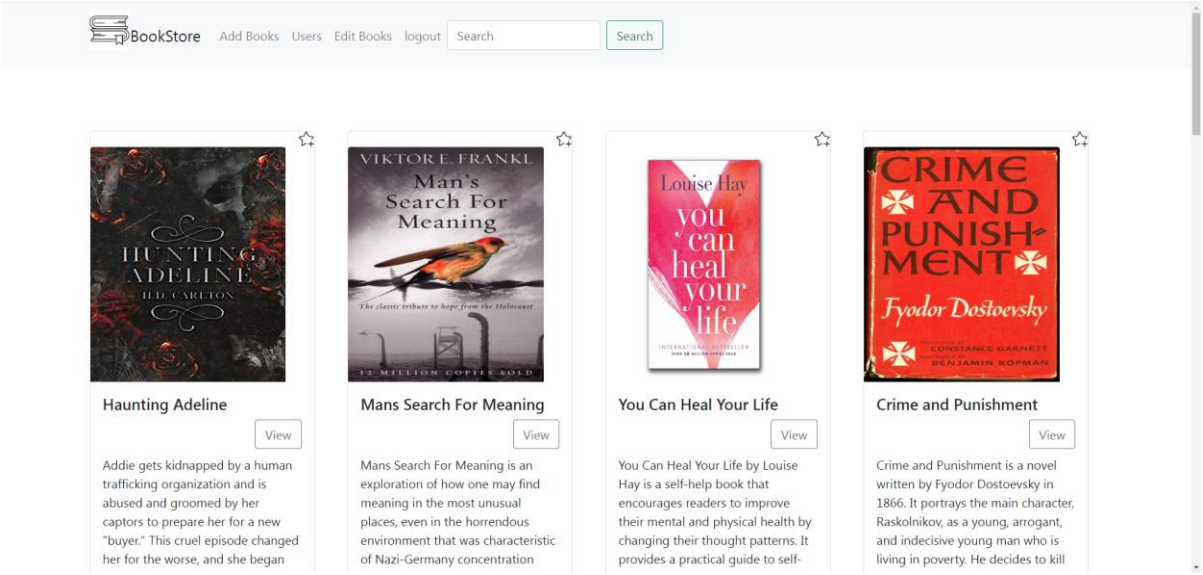
```
                    </div>
                </div>
        <?php
            }
        } else {
            echo "<h1>Sorry no record Found</h1>";
        }
        ?>
    </div>
</div>

  <?php
 include("footer.php");
  ?>
</body>
</html>
```

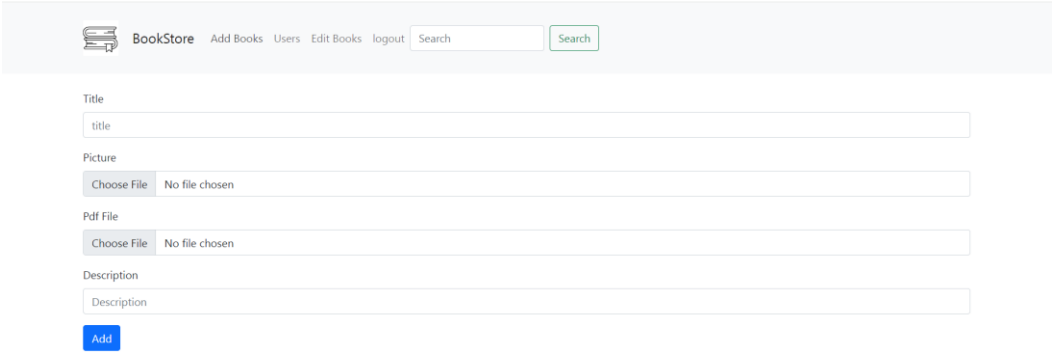
APPENDEX II

SOME RELEVENT SCREEN SHOTS

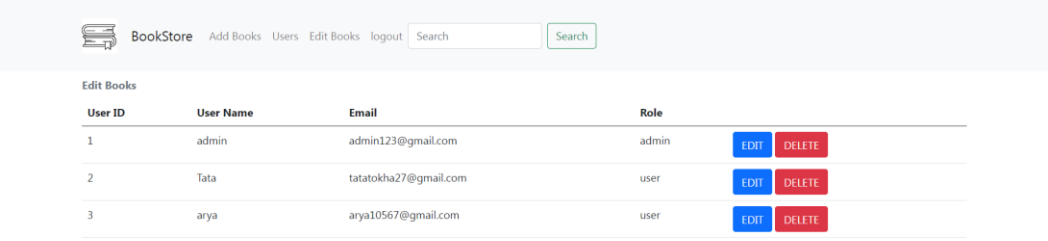
Admin Home Page



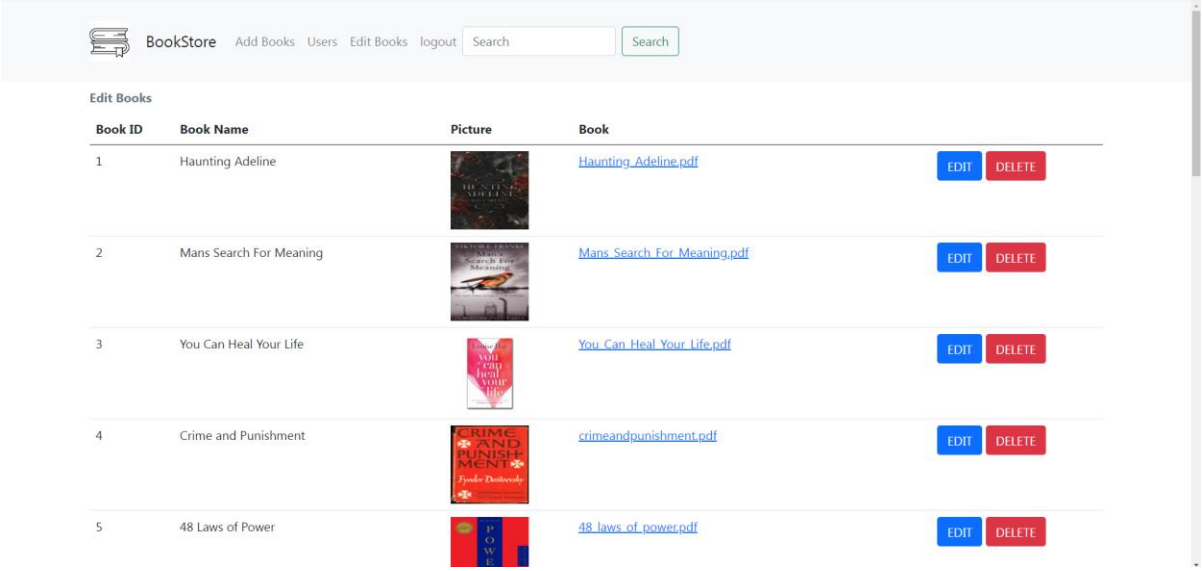
Admin Add Book



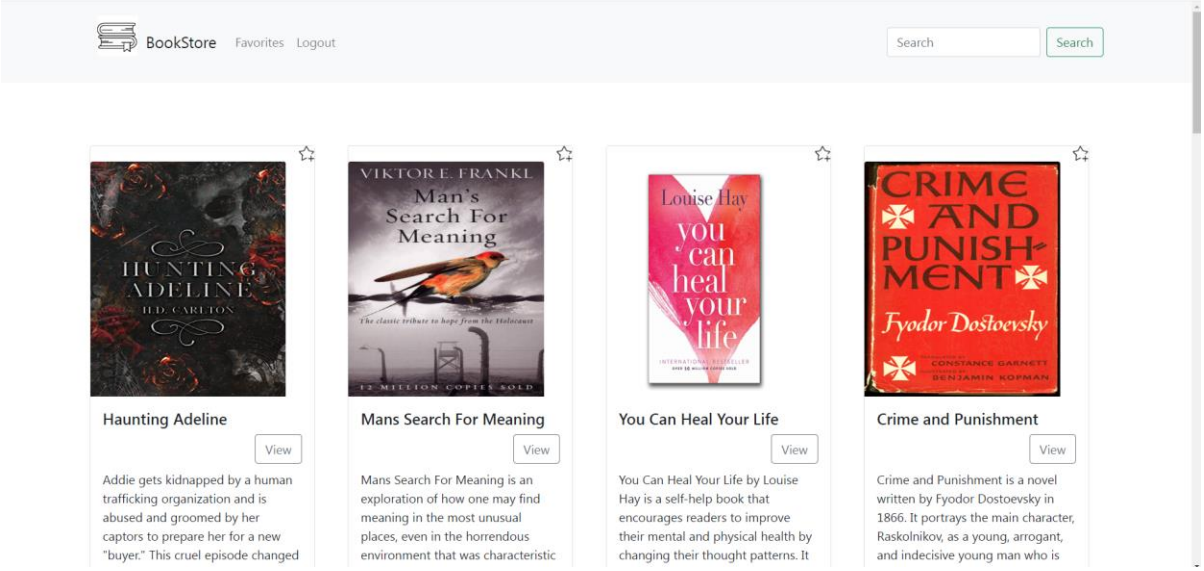
Admin Edit User



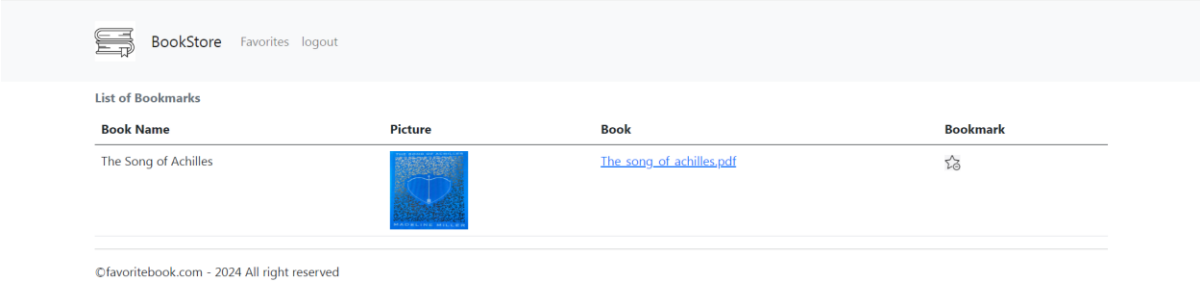
Admin Edit Books



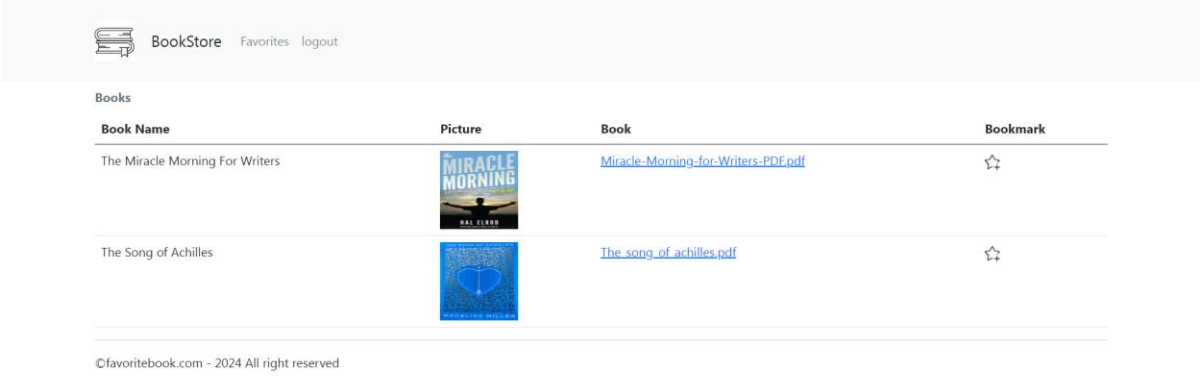
User Home Page



User Favorites page



User search


BookStore
Favorites
logout
Books
Book Name
Picture
Book
Bookmark
The Miracle Morning For Writers
Miracle-Morning-for-Writers-PDF.pdf
The Song of Achilles
The_song_of_achilles.pdf
©favoritebook.com - 2024 All right reserved

References

[1] J. Corradi, "8 Free Apps to Read Book When Ever You Want," no. 1, 2023.

[2] L. Rainie, K. Zickuhr and K. Purcell, "The Rise of E-Reading.," no. 2, 2012.

[3] I. N. Wulandari, R. Apriliaswati and Y. S. Rezeki, "Strategies in Reading English Web-Novels on Wattpad," no. 3, 2024.

[4] K. Anuradha and K. Ramasamy, " Web Usability and Its Influence on the Online Reading Strategies of the 'Digital Native'Students," *Advances in Library and Information Science,* no. 4, 2021.

[5] Y. Zhang and S. Kudva, "E-books versus print books: Readers' choices and preferences across contexts," *The association for information science and technology,* no. 5, 2014.

[6] M. Arain, M. Campbell, C. L. Cooper and A. G. Lancaster, "What is a pilot or feasibility study?," 2010.