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# **Certificate Of Completion**

This is to certify that the project titled "**E-Library**" has been successfully completed by the group members and is hereby submitted to **Aptech** Computer Education.

**Project Title: E-LIBRARY MANAGEMENT SYSTEM**

**Program:** Advanced Diploma in Software Engineering (ADSE)

## **Group Members:**

- AKINLOLUWA FOLORUNSHO VICTOR
- SHARON ADESUWA OLUWAWUYI
- TIMILEHIN PAUL OLAIYA

We hereby acknowledge the satisfactory completion of the project by the group members. The project content and execution meet the criteria and standards set for the ADSE program.

## ACKNOWLEDGEMENT

We would like to express our heartfelt gratitude to all those who have contributed to the successful completion of this project. It is with their support, guidance, and encouragement that we were able to accomplish this task.

First and foremost, I would like to thank our teacher Mr Precious Oladele, whose valuable insights and unwavering support were instrumental in shaping the direction of this project. Your patience and dedication to helping me understand the project have been invaluable.

We are also deeply indebted to our counsellor who provided us with valuable suggestions, shared their knowledge, and offered moral support throughout the project's duration. Your enthusiasm and camaraderie made this journey more enjoyable.

We extend thanks to our parents and family for their constant encouragement and understanding during the late nights and weekends we all dedicated to this project. Your belief in us was what kept us moving.

We would also like to acknowledge the resources provided by the school library and online research platforms, which were instrumental in gathering information and references for this project.

Thank you to everyone who played a part in making this project possible. Your support has been invaluable, and we are grateful for the opportunity to learn and grow through this experience.

With Sincere Gratitude,

Akinloluwa Folorunsho Victor  
Sharon Adesuwa Oluwawuyi  
Timilehin Olaiya Paul

## **PROBLEM DEFINITION**

The project titled “**E-Library**” is an Online Library Management System is a system which maintains the information about the books present in the library, their authors, the members of library to whom books are issued, library staff and all. This is very difficult to organize manually. Maintenance of all these information manually is a very complex task. Owing to the advancement of technology, organization of an online library becomes much simple.

## **PROJECT ANALYSIS**

The primary objectives of the E-Library Management System project are as follows:

- Efficiently catalog and manage a diverse range of digital and physical resources, including books, journals, e-books, multimedia materials, and more.
- Develop an intuitive and user-friendly interface for both library staff and patrons, making it easy to search, borrow, and return items.
- Ensure that the system is accessible to users with disabilities, complying with relevant accessibility standards.
- Implement robust security measures to protect user data, library resources, and transactions.
- Provide reporting and analytics features to track library usage, resource popularity, and user behavior, enabling data-driven decisions.
- Integrate with external systems, such as online databases, payment gateways, and authentication systems, to enhance functionality.

# PROJECT SYNOPSIS

## Hardware

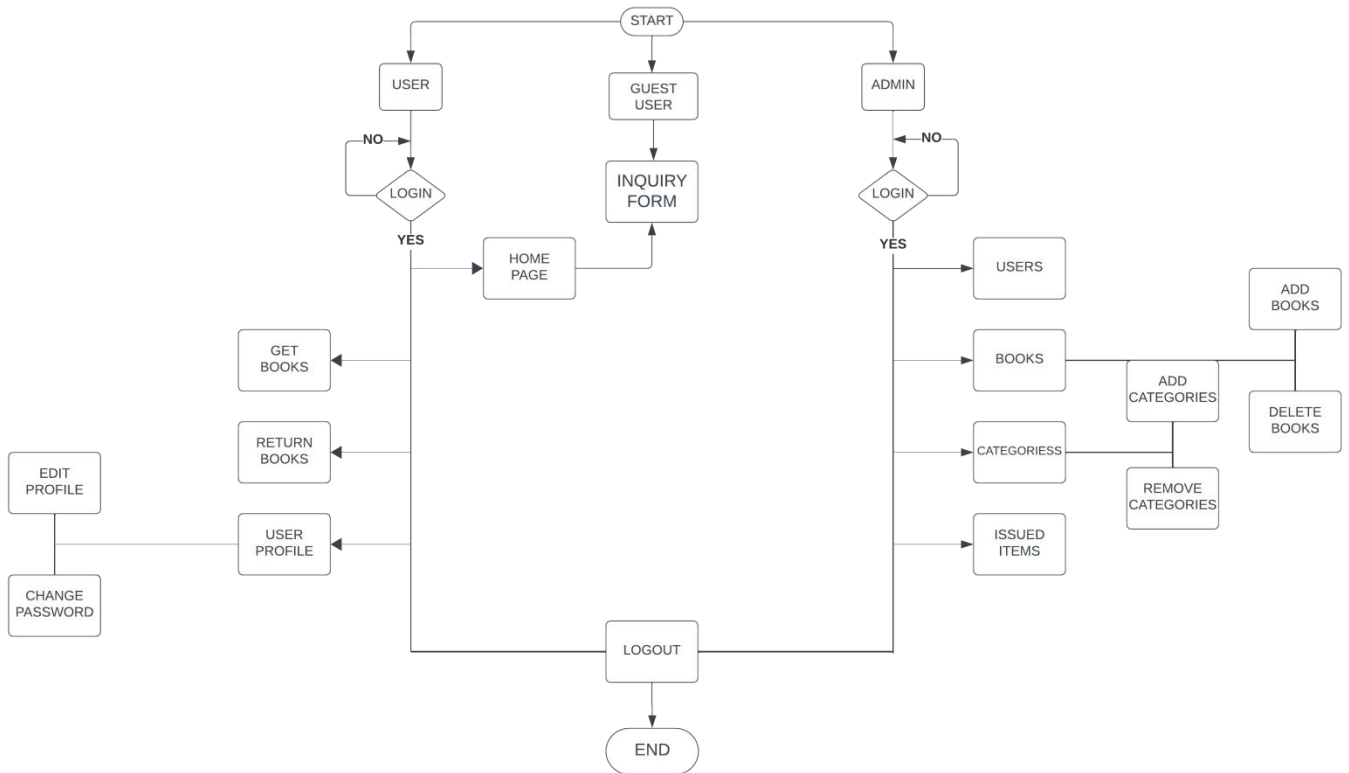
- A minimum computer system that will help you access all the tools in the courses is a pentium 166 or better.
- 128 Megabytes of RAM or better
- Windows 2000 Server (or higher if possible)

## Software

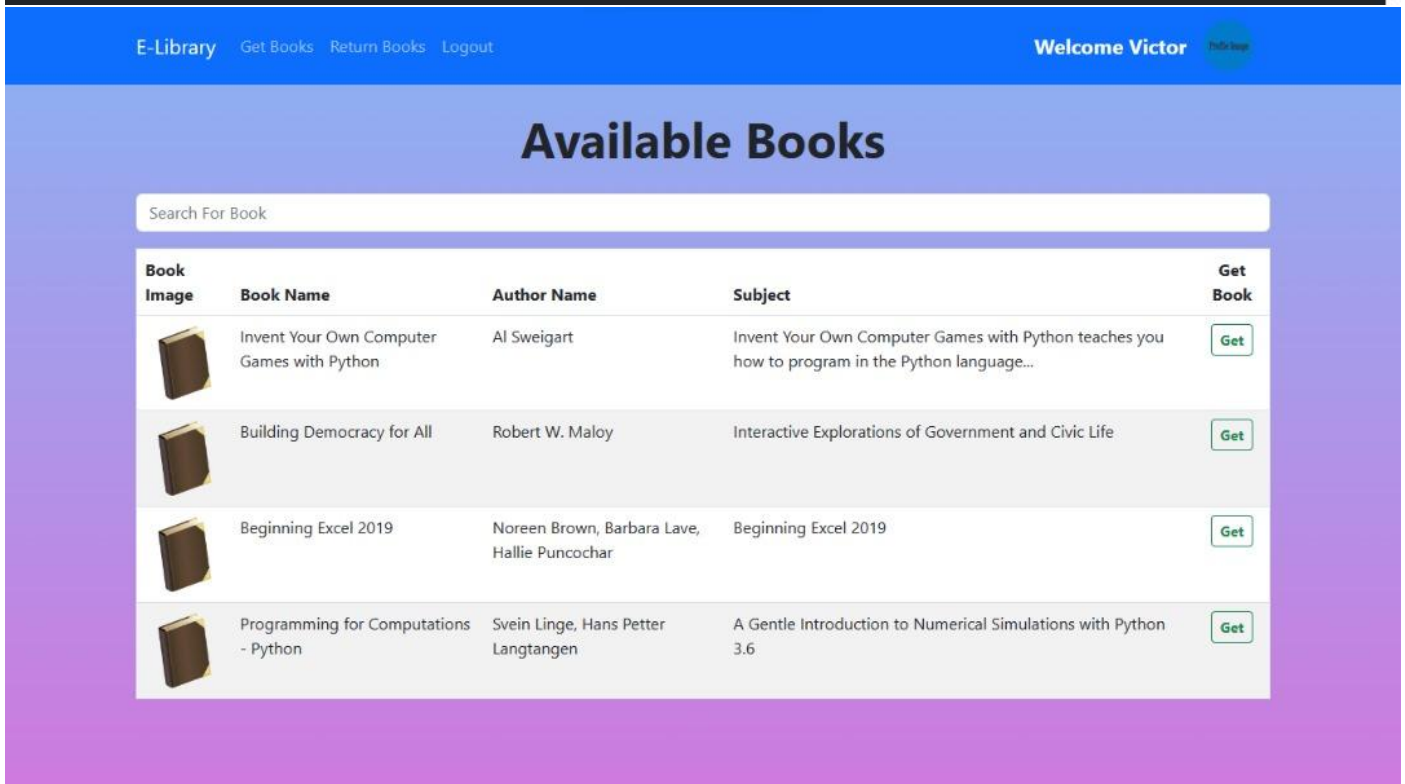
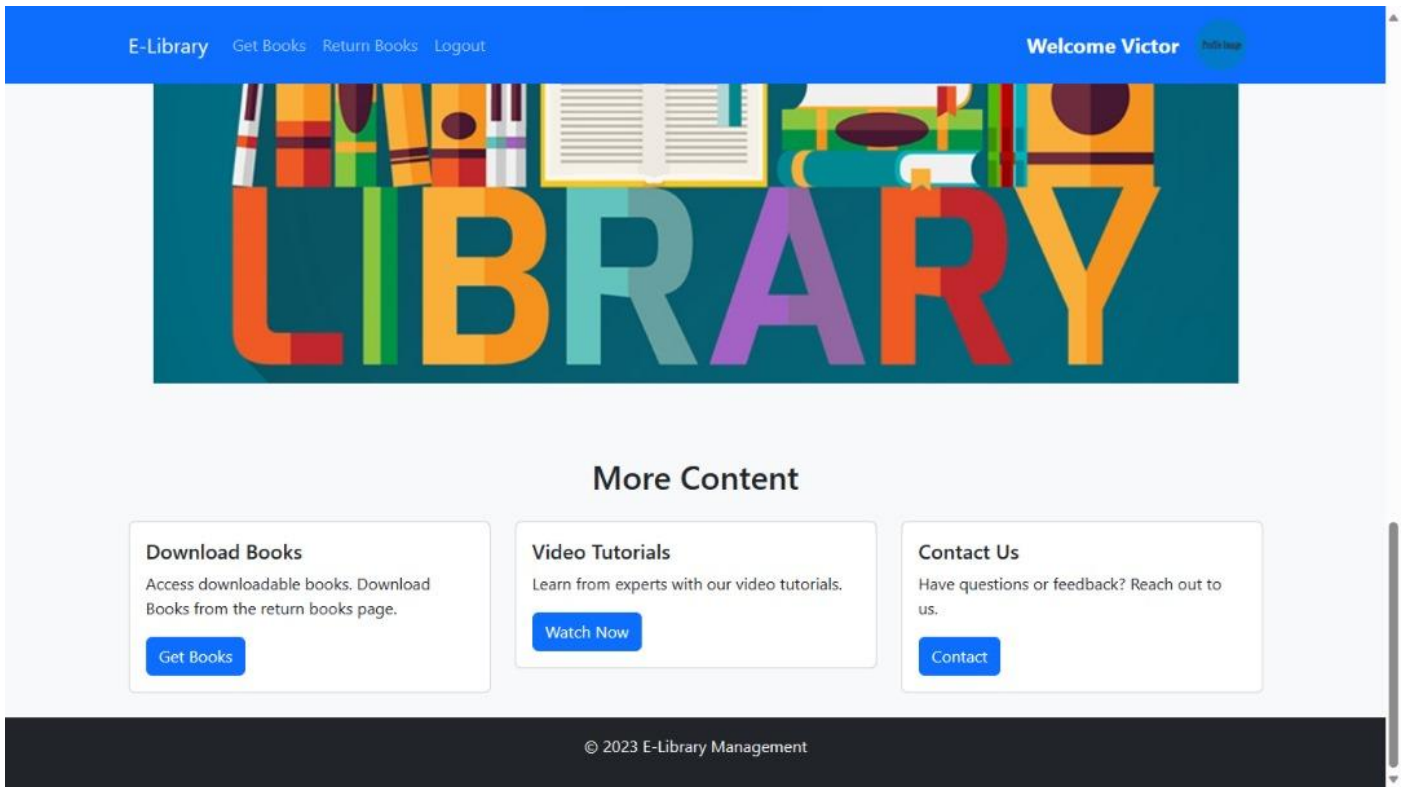
Use software as per your requirement

- Windows OS/Python/R/JAVA/Notepad

# E-R DIAGRAMS



# SNAPSHOTS





## Books you have issued

Book Image	Book Name	Author Name	Read Online	Download	Return Book
	Invent Your Own Computer Games with Python	Al Sweigart	<a href="#">Read</a>		<a href="#">Return</a>
	Building Democracy for All	Robert W. Maloy	<a href="#">Read</a>		<a href="#">Return</a>

  
Profile Image

### Victor Folorunsho

[Admin](#)[Logout](#)

#### User Information

**Username:** Aksticks**Email:** akinloluwa708@gmail.com**Join Date:** Aug. 28, 2023, 7:52 p.m.[Edit Profile](#)[Login as admin](#)

#### Borrowed Books

Title	Author	Issue Date	Return Date
Invent Your Own Computer Games with Python	Al Sweigart	Sept. 8, 2023	None
Building Democracy for All	Robert W. Maloy	Sept. 8, 2023	None
Invent Your Own Computer Games with Python	Al Sweigart	Sept. 6, 2023	Sept. 8, 2023

[View More](#)

# Your History

Book Name	Author Name	Issue Date	Return Date
Invent Your Own Computer Games with Python	Al Sweigart	Sept. 8, 2023	None
Building Democracy for All	Robert W. Maloy	Sept. 8, 2023	None
Invent Your Own Computer Games with Python	Al Sweigart	Sept. 6, 2023	Sept. 8, 2023



Yakub Opeyemi

Library Member

[Change Password](#)

## User Information

**Username:** Wap

**Email:** [abdulfataiyakub07@gmail.com](mailto:abdulfataiyakub07@gmail.com)

**Join Date:** Aug. 29, 2023, 9:44 p.m.

[Edit Profile](#)   [Logout](#)

## Borrowed Books

Title	Author	Issue Date	Return Date
Building Democracy for All	Robert W. Maloy	Sept. 7, 2023	None
Invent Your Own Computer Games with Python	Al Sweigart	Sept. 6, 2023	Sept. 6, 2023
Invent Your Own Computer Games with Python	Al Sweigart	Sept. 6, 2023	None

[View More](#)



## Edit Your Profile

**First Name**

**Last Name**

**Username**

**Email**

Submit



## Change Password

Old Password

New Password

Confirm New Password

Submit

Welcome, Guest User!

## Welcome to the Online E-Library

Explore a world of knowledge at your fingertips

### About Us

Our online e-library is committed to providing a vast collection of books and resources for all your reading needs. Whether you're a student, researcher, or simply a book lover, we have something for everyone.

You can explore some limited features as a guest user. Consider [logging in](#) or [registering](#) to access more features.

### Library Timings

Our library is open for your convenience:

- **Monday - Friday:** 9:00 AM - 6:00 PM
- **Saturday:** 10:00 AM - 4:00 PM
- **Sunday:** Closed

### Available Books

### Available Books



**Invent Your Own  
Computer Games with  
Python**

Al Sweigart

[Read](#)

**Building Democracy for  
All**

Robert W. Maloy

[Read](#)

**Beginning Excel 2019**

Noreen Brown, Barbara Lave,  
Hallie Puncochar

[Read](#)

**Programming for  
Computations - Python**

Svein Linge, Hans Petter  
Langtangen

[Read](#)[Login to Read Books Online](#)

### Categories

[Fiction](#)[Non-fiction](#)[Science](#)[History](#)[Mystery](#)[Horror](#)

## Available Books



### Invent Your Own Computer Games with Python

Al Sweigart

[Read](#)



### Building Democracy for All

Robert W. Maloy

[Read](#)



### Beginning Excel 2019

Noreen Brown, Barbara Lave,  
Hallie Puncochar

[Read](#)



### Programming for Computations - Python

Svein Linge, Hans Petter  
Langtangen

[Read](#)

[Login to Read Books Online](#)

## Categories

Fiction

Non-fiction

Science

History

Mystery

Horror



### Invent Your Own Computer Games with Python

Al Sweigart

[Read](#)



### Building Democracy for All

Robert W. Maloy

[Read](#)



### Beginning Excel 2019

Noreen Brown, Barbara Lave,  
Hallie Puncochar

[Read](#)



### Programming for Computations - Python

Svein Linge, Hans Petter  
Langtangen

[Read](#)

[Login to Read Books Online](#)

## Categories

Fiction

Non-fiction

Science

History

Mystery

Horror

## Contact Us

If you have any inquiries or need assistance, please feel free to contact us using our [contact form](#).

Django administration ↻

Username:

aksticks

Password:

\*\*\*\*\*

Log in

## Login To Library

**Username**

**Password**

Login

Don't have account?

Guest User

## Register To Library

**First Name**

**Last Name**

**Username**

**Email**

**Password**

**Confirm Password**

Register

[Already a user?](#)

# SOURCE CODE

## Base.html

```
{% load static %}
<!DOCTYPE html>
<html lang="en">

<head>
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <title>E-Library Management System</title>

  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/bootstrap.min.css"
rel="stylesheet"
  integrity="sha384-rbsA2VBKQhggwzxH7pPCaAqO46MgnOM80zW1RWuH61DGLwZJEdK2Kadq2F9CUG65"
crossorigin="anonymous">
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/js/bootstrap.bundle.min.js"
  integrity="sha384-kenU1KFdBIe4zVF0s0G1M5b4hcxpyD9F7jL+jjXkk+Q2h455rYXK/7HAuoJl+0I4"
  crossorigin="anonymous"></script>
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>
  <script src="https://use.fontawesome.com/a83359a6be.js"></script>

  <style>
    body {
      background: linear-gradient(#89b4f4, #cf7ade);
      background-size: cover;
      background-attachment: fixed;
      background-repeat: no-repeat;
    }

    #profile-img {
      border-radius: 50%;
    }

    /* issue, return books and history styling */
    table {
      border-collapse: collapse;
      border-spacing: 0;
      border-radius: 10px;
      width: 100%;
      border: 1px solid #ddd;
    }

    th,
    td {
      text-align: left;
      padding: 20px;
    }

    tr:nth-child(even) {
      background-color: #f2f2f2;
    }
```



```
tr:nth-child(odd) {
  background-color: #fff;
}
```

```
.container {
  width: 100%;
  padding-right: 15px;
  padding-left: 15px;
  margin-right: auto;
  margin-left: auto;
}
```

```
.input-group {
  width: 100%;
  margin-bottom: 1rem;
}
```

```
/* guest user style */
.jumbotron {
  background-color: #343a40;
  color: #ffffff;
  padding: 30px;
  margin-bottom: 30px;
  border-top-left-radius: 10px;
  border-top-right-radius: 10px;
}
```

```
.library-section {
  background-color: #f2f2f2;
  padding: 20px;
  border-radius: 0;
}
```

```
.contact-section {
  background-color: #fff;
  padding: 20px;
  border-bottom-left-radius: 10px;
  border-bottom-right-radius: 10px;
}
```

```
#form-container {
  background: #ffffff98;
  margin-bottom: 50px;
  width: 550px;
}
</style>
```

```
</head>
```

```
<body>
{% if user.is_authenticated %}
<nav class="navbar navbar-expand-lg navbar-dark bg-primary sticky-top">
  <div class="container">
    <a class="navbar-brand" href="/">E-Library</a>
```

```

<div class="collapse navbar-collapse" id="navbarNav">
  <ul class="navbar-nav ml-auto mb-2 mb-lg-0">
    <li class="nav-item">
      <a class="nav-link" href="{% url 'issue' %}">Get Books</a>
    </li>
    <li class="nav-item">
      <a class="nav-link" href="{% url 'return_book' %}">Return Books</a>
    </li>
    <li class="nav-item">
      <a class="nav-link" href="{% url 'logout' %}">Logout</a>
    </li>
  </ul>

```

```

</ul>
{% block search %}

```

```

{% endblock %}
</div>
<a class="navbar-brand fw-bold" href="{% url 'view_profile' %}">Welcome
{{request.user.first_name}}</a>
<a class="navbar-brand fw-bold" href="{% url 'view_profile' %}"></a>
<button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarNav"
aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">
<span class="navbar-toggler-icon"></span>
</button>
</div>
</nav>
{% else %}
<nav class="bg-primary sticky-top">
  <ul class="nav justify-content-center">
    <li class="nav-item">
      <a class="nav-link fw-bold text-light" href="/">Home</a>
    </li>
    <li class="nav-item">
      <a class="nav-link fw-bold text-light" href="{% url 'login' %}">Login</a>
    </li>
    <li class="nav-item">
      <a class="nav-link fw-bold text-light" href="{% url 'register' %}">Register</a>
    </li>
  </ul>
</nav>
{% endif %}
{% block content %}

```

```

{% endblock %}
</body>

```

```

</html>

```

# Index Page

```
{% extends 'base.html' %}
{% load static %}
{% block content %}
<style>
  /* Add your custom CSS here */
  body {
    background: #f8f9fa;
  }

  .jumbotron {
    background-size: cover;
    color: #fff;
    text-align: center;
    padding: 100px 0;
    margin-bottom: 0;
    border-radius: 0;
  }
}
```

```
.jumbotron h1 {
  font-size: 3rem;
}
```

```
.jumbotron p {
  font-size: 1.5rem;
}
```

```
.box-container {
  background-color: #fff;
  border-radius: 5px;
  padding: 20px;
  box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.1);
}
```

```
#read_online {
  width: 70%;
}
```

```
#download {
  width: 20%;
  margin-left: 10%;
}
```

```
</style>
```

```
<!-- Jumbotron (Hero Section) -->
<div class="jumbotron">
  <div class="container">
    <h1 class="display-4">Welcome to the Online E-Library</h1>
    <p class="lead">Explore a vast collection of books, articles, and more.</p>
    <div class="box-container">
      <div class="banner my-2">
        
      </div>
    </div>
  </div>
</div>
```

```

    </div>
  </div>
</div>

```

```

<!-- Featured Books Section -->
<section class="container">
  <h2 class="text-center m-4">Featured Books</h2>
  <div class="row">
    {% for book in books %}
    <div class="col-lg-3 col-md-4 col-sm-6 mb-4">
      <div class="card">
        
        <div class="card-body">
          <h5 class="card-title">{{book.book_name}}</h5>
          <p class="card-text">Author: {{book.author_name}}</p>
          <div class="container">
            {% if user.is_authenticated %}
            <div class="row">
              <a href="{% url 'read_book' book.id %}" class="btn btn-primary"
id="read_online">Read Online</a>
              <a href="{% url 'read_book' book.id %}" class="btn btn-success"
id="download" download><i
              class="fa fa-download" aria-hidden="true"></i></a>
            </div>
            {% else %}
            <div>
              <a href="{% url 'issue' %}" class="btn btn-primary w-100">GET BOOK</a>
            </div>
            {% endif %}
          </div>
        </div>
      </div>
    {% endfor %}
  </div>

```

```

    </div>
  </div>
</div>
{% endfor %}
</div>

```

```

<h2 class="text-center m-4">Categories</h2>
<div class="row">
  {% for category in categories %}
  <div class="col-md-2 col-sm-12 mb-3">
    <div class="card">
      <div class="card-body">
        <h5 class="card-title text-center"><a href="{% url 'issue' %}" class="text-decoration-none">{{category.category_name}}</a></h5>
      </div>
    </div>
  </div>
  {% endfor %}
</div>

```

```

<section class="container-fluid bg-light my-5 py-3">
  <div class="container-fluid">

```

```
<div class="banner my-2">
  
</div>
</div>
</section>
```

```
<h2 class="text-center mb-4">More Content</h2>
<div class="row">
  <!-- Download Section -->
  <div class="col-md-4 mb-4">
    <div class="card">
      <div class="card-body">
        <h5 class="card-title">Download Books</h5>
        <p class="card-text">Access downloadable books. Download Books from the return
books page.</p>
        <a href="{% url 'issue' %}" class="btn btn-primary">Get Books</a>
      </div>
    </div>
  </div>
</div>
```

```
<!-- Video Tutorials Section -->
<div class="col-md-4 mb-4">
  <div class="card">
    <div class="card-body">
      <h5 class="card-title">Video Tutorials</h5>
      <p class="card-text">Learn from experts with our video tutorials.</p>
      <a href="https://www.youtube.com/results?search_query=book+tutorials" class="btn
btn-primary">Watch Now</a>
    </div>
  </div>
</div>
```

```
<!-- Contact Us Section -->
<div class="col-md-4 mb-4">
  <div class="card">
    <div class="card-body">
      <h5 class="card-title">Contact Us</h5>
      <p class="card-text">Have questions or feedback? Reach out to us.</p>
      <a href="{% url 'contact_us' %}" class="btn btn-primary">Contact</a>
    </div>
  </div>
</div>
```

```
</div>
</section>
```

```
<!-- Footer -->
<footer class="bg-dark text-light text-center py-3">
  <div class="container">
    <p>&copy; 2023 E-Library Management</p>
  </div>
</footer>
```

```
</body>
```

```
</html>
```

```
{% endblock %}
```

## Issue book

```
{% extends 'base.html' %}
{% block content %}
{% for message in messages %}
<div class="alert alert-{{message.tags}} rounded-0" role="alert">
    {{message}}
</div>
{% endfor %}

<h1 class="display-5 text-center m-4 fw-bold">Available Books</h1>
```

```
<div class="input-group container">
    <input id="search" type="search" class="form-control rounded" placeholder="Search For
Book" aria-label="Search"
        aria-describedby="search-addon" />
</div>
```

```
<div class="container mt-3">
    <table class="table">
        <thead class="thead-dark">
            <tr>
                <th class="" scope="col">Book Image</th>
                <th class="" scope="col">Book Name</th>
                <th class="" scope="col">Author Name</th>
                <th class="" scope="col">Subject</th>
                <th class="" scope="col">
                    <div class="text-center">Get Book</div>
                </th>
            </tr>
        </thead>
        <tbody id="table_data">
            {% for book in books %}
            <tr>
                <td></td>
                <td>{{book.book_name}}</td>
                <td>{{book.author_name}}</td>
                <td>{{book.subject}}</td>
                <td>
                    <div class="text-center">
                        <form action="{% url 'issue' %}" method="post">
                            {% csrf_token %}
                            <input type="hidden" name="book_id" value="{{book.id}}" />
                            <button type="submit" class="btn btn-outline-success btn-sm">
                                <b>Get</b>
                            </button>
                        </form>
```

```

        </div>
      </td>
    </tr>
  }% endfor %}
</tbody>
</table>
</div>
<script>
  // search for books
  $(document).ready(function () {
    $("#search").on("keyup", function () {
      var value = $(this).val().toLowerCase();
      $("#table_data tr").filter(function () {
        $(this).toggle($(this).text().toLowerCase().indexOf(value) > -1);
      });
    });
  });
</script>
{% endblock %}

```

## Return book

```

{% extends 'base.html' %}
{% block content %}
<style>
  body {
    background: linear-gradient(#6affa8, #d5f57f);
    background-size: cover;
    background-attachment: fixed;
    background-repeat: no-repeat;
  }
</style>
{% for message in messages %}
<div class="alert alert-{{message.tags}} rounded-0" role="alert">
  {{message}}
</div>
{% endfor %}

<h1 class="display-5 text-center m-4 fw-bold">Books you have issued</h1>

```

```

<div class="input-group container">
  <input id="search" type="search" class="form-control rounded" placeholder="Search Book"
  aria-label="Search"
    aria-describedby="search-addon" />
</div>

```

```

<div class="container mt-3">
  <table class="table">
    <thead class="thead-dark">
      <tr>
        <th scope="col">Book Image</th>
        <th scope="col">Book Name</th>

```

```

        <th scope="col">Author Name</th>
        <th scope="col">Read Online</th>
        <th scope="col">
            <div class="text-center">Download</div>
        </th>
        <th scope="col">
            <div class="text-center">Return Book</div>
        </th>
    </tr>
</thead>
<tbody id="table_data">
    {% for book in books %}
    <tr>
        <td></td>
        <td>{{book.book_name}}</td>
        <td>{{book.author_name}}</td>
        <td><a href="{% url 'read_book' book.id %}" class="btn btn-primary"
id="read_online">Read</a></td>
        <td>
            <div class="text-center">
                <a href="{% url 'read_book' book.id %}" class="btn btn-success" download><i
class="fa fa-download"
                aria-hidden="true"></i></a>
            </div>
        </td>
        <td>
            <div class="text-center">
                <form action="{% url 'return_book' %}" method="post">
                    {% csrf_token %}
                    <input type="hidden" name="book_id" value="{{book.id}}" />
                    <button type="submit" class="btn btn-outline-success btn-sm">Return</button>
                </form>
            </div>
        </td>
    </tr>
    {% endfor %}
</tbody>
</table>
</div>
<script>
    // search for books
    $(document).ready(function () {
        $("#search").on("keyup", function () {
            var value = $(this).val().toLowerCase();
            $("#table_data tr").filter(function () {
                $(this).toggle($(this).text().toLowerCase().indexOf(value) > -1);
            });
        });
    });
</script>
{% endblock %}

```

## History



```
{% extends 'base.html' %}
{% block content %}
<style>
  body {
    background: linear-gradient(#79d4f8, #5bf3f8);
    background-repeat: no-repeat;
    background-attachment: fixed;
  }
</style>

<h1 class="display-5 text-center m-4 fw-bold">Your History</h1>
```

```
<div class="container">
  <table class="table">
    <thead class="thead-dark">
      <tr>
        <th scope="col">Book Name</th>
        <th scope="col">Author Name</th>
        <th scope="col">Issue Date</th>
        <th scope="col">Return Date</th>
      </tr>
    </thead>
    <tbody>
      {% for book in books %}
      <tr>
        <td>{{book.book_id.book_name}}</td>
        <td>{{book.book_id.author_name}}</td>
        <td>{{book.issue_date}}</td>
        <td>{{book.return_date}}</td>
      </tr>
      {% endfor %}
    </tbody>
  </table>
</div>

<div class="mx-auto w-25">
  <nav aria-label="...">
    <ul class="pagination ms-10">
      {% if books.has_previous %}
      <li class="page-item active">
        <a class="page-link" href="?page={{books.previous_page_number}}" tabindex="-1">&laquo;</a>
      </li>
      {% endif %} {% for i in "x"|ljust:books.paginator.num_pages %}
      <li class="page-item {% if forloop.counter == books.number %}active{% endif %}">
        <!-- Show the link if there are more than 1 page -->
```

```
      {% if books.paginator.num_pages > 1 %}
      <a class="page-link" href="?page={{forloop.counter}}">{{forloop.counter}}</a>
      {% endif %}
    </li>
    {% endfor %} {% if books.has_next %}
    <li class="page-item active">
      <a class="page-link" href="?page={{books.next_page_number}}">&raquo;</a>
    </li>
```

```

        {% endif %}
    </ul>
</nav>
</div>

```

```
{% endblock %}
```

## Guest User

```

{% extends 'base.html' %}
{% block content %}

<h2 class="text-center m-3">Welcome, Guest User!</h2>
<style>
    body {
        background: #ddd;
    }
</style>

```

```

<div class="container mb-3 p-3">
    <div class="jumbotron text-center">
        <h1>Welcome to the Online E-Library</h1>
        <p>Explore a world of knowledge at your fingertips</p>
    </div>

```

```

<div class="library-section">
    <h2>About Us</h2>
    <p>Our online e-library is committed to providing a vast collection of books and
resources for all your reading
        needs. Whether you're a student, researcher, or simply a book lover, we have
something for everyone.</p>
    <p>You can explore some limited features as a guest user. Consider <a href="{% url
'login' %}">logging in</a> or <a
        href="{% url 'register' %}">registering</a> to access more
features.</p>
</div>

```

```

<div class="library-section">
    <h2>Library Timings</h2>
    <p>Our library is open for your convenience:</p>
    <ul>
        <li><strong>Monday - Friday:</strong> 9:00 AM - 6:00 PM</li>
        <li><strong>Saturday:</strong> 10:00 AM - 4:00 PM</li>
        <li><strong>Sunday:</strong> Closed</li>
    </ul>
</div>

```

```

<div class="library-section">
    <h2>Available Books</h2>
    <div class="row">
        {% for book in books %}
        <div class="col-md-3 justify-center book-card mb-4">

```

```

        <div class="card">
            
            <div class="card-body">
                <h5 class="card-title">{{book.book_name}}</h5>
                <p class="card-text">{{book.author_name}}</p>
                <a href="{% url 'return_book' %}" class="btn btn-primary">Read</a>
            </div>
        </div>
    </div>
{% endfor %}
</div>
<div class="text-center">
    <a href="{% url 'login' %}" class="text-decoration-none fw-bold btn btn-primary">Login to Read Books Online</a>
</div>
</div>

```

```

<div class="library-section">
    <h2>Categories</h2>
    <div class="row">
        {% for category in categories %}
        <div class="col-md-2 mb-4">
            <div class="card">
                <div class="card-body">
                    <h5 class="card-title text-center text-dark">{{category.category_name}}</h5>
                </div>
            </div>
        </div>
        {% endfor %}
    </div>
</div>

```

```

<div class="contact-section">
    <h2>Contact Us</h2>
    <p>If you have any inquiries or need assistance, please feel free to contact us using our <a href="{% url 'contact_us' %}">contact form</a>.</p>
</div>
</div>

```

```

{% endblock %}

```

# Login

```
{% extends 'base.html' %}
{% block content %}
```

```
<h1 class="mt-5 text-center">Login To Library</h1>
```

```
<div class="container border border-dark mt-4 p-5" id="form-container">
  <form action="{% url 'login' %}" method="POST">
    {% csrf_token %}
    <div class="form-group">
      <label><b>Username</b></label>
      <input type="text" name="username" class="form-control"
placeholder="Username">
    </div>
    <br>
    <div class="form-group">
      <label><b>Password</b></label>
      <input type="password" name="password" class="form-control"
placeholder="Password">
    </div>
    <br>
```

```
<button type="submit" class="btn btn-primary w-100">Login</button>
```

```
<div class="container mt-3">
  <div class="row">
    <div class="col-sm-6">
      <a class="btn btn-outline-success w-100" href="/register">Don't have
account?</a>
    </div>
    <div class="col-sm-6">
      <a class="btn btn-outline-primary w-100" href="{% url
'guest_user' %}">Guest User</a>
    </div>
  </div>
```

```
</div>
```

```
</form>
<br>
{% for message in messages %}
<div class="alert alert-danger" role="alert">
  {{message}}
</div>
{% endfor %}
</div>
{% endblock %}
```

## Register

```
{% extends 'base.html' %}
{% block content %}
```

```
<h1 class="m-4 text-center">Register To Library</h1>
```

```
<div class="container border border-white mt-4 p-4" id="form-container">
  {% for message in messages %}
    <div class="alert alert-danger" role="alert">
      {{message}}
    </div>
  {% endfor %}
  <form action="{% url 'register' %}" method="POST">
    {% csrf_token %}
    <div class="form-group">
      <label><b>First Name</b></label>
      <input type="text" name="first_name" class="form-control" placeholder="First Name">
    </div>
    <br>
    <div class="form-group">
      <label><b>Last Name</b></label>
      <input type="text" name="last_name" class="form-control" placeholder="Last Name">
    </div>
    <br>
    <div class="form-group">
      <label><b>Username</b></label>
      <input type="text" name="username" class="form-control" placeholder="Username">
    </div>
    <br>
    <div class="form-group">
      <label><b>Email</b></label>
      <input type="email" name="email" class="form-control" placeholder="Email">
    </div>
```

```
<div class="row mt-4">
  <div class="form-group col-md-6">
    <label><b>Password</b></label>
    <input type="password" class="form-control mt-2" name="password"
placeholder="Enter Password" required>
```

```

    </div>
    <div class="form-group col-md-6">
        <label><b>Confirm Password</b></label>
        <input type="password" class="form-control mt-2" name="confirm_password"
placeholder="Confirm Password"
        required>
    </div>
</div>

```

```

<button type="submit" class=" mt-3 btn btn-primary w-100">Register</button>

```

```

<div class="mt-2">
    <a class="text-center" href="/login">Already a user?</a>
</div>
</form>
</div>
<br>
{% endblock %}

```

## Contact us

```

{% extends 'base.html' %}
{% block content %}

<h2 class="mt-3 text-center">Contact Us</h2>
<div class="container border border-dark p-3 mt-4 rounded-md" id="form-container">
    <form action="{% url 'contact_us' %}" method="POST">
        {% csrf_token %}
        <div class="form-group">
            <label><b>Name</b></label>
            <input type="text" name="name" class="form-control" placeholder="Name">
        </div>
        <br>
        <div class="form-group">
            <label><b>Email</b></label>
            <input type="text" name="from_email" class="form-control" placeholder="Email">
        </div>
        <br>
        <div class="form-group">
            <label><b>Make Inquiry</b></label>
            <textarea name="message" class="form-control" cols="30" rows="5"
placeholder="Message"></textarea>
        </div>
        <button type="submit" class="btn btn-primary mt-3 w-100">Submit</button>
    </form>

```

```

{% if messages %}
<div class="messages">
    {% for message in messages %}

```

```

    <div {% if message.tags %} class="alert alert-danger m-4" {% else %} class="alert
alert-{{ message.tags }} m-4" {% endif %}>
        {{ message }}
    </div>
    <!-- <div class="alert alert-{{message.tags}} rounded-0" role="alert">
        {{message}}
    </div> -->
{% endfor %}
</div>
{% endif %}
</div>
{% endblock %}

```

## Profile/View Profile

```

{% extends 'base.html' %}
{% load static %}
{% block content %}
<div class="container">
    <h2 class="text-center m-4 fw-bold">Your Profile</h2>
    <!-- User Profile Content -->
    <div class="container my-5">
        <div class="row">
            <!-- User Profile Header -->
            <div class="card col-lg-8 bg-light mb-4">
                <header class="py-5">
                    <div>
                        <div class="card-body">
                            <div class="container text-center">
                                <a class="navbr-brand fw-bold" href="{% url 'view_profile' %}"></a>

                                <h1>{{user.first_name}} {{user.last_name}}</h1>

```

```

                                {% if user.is_staff %}
                                <a class="btn btn-outline-success" href="/library-admin">Admin</a>
                                <a class="btn btn-outline-primary" href="{% url 'logout' %}">Logout</a>
                                {% else %}
                                <p class="lead">Library Member</p>
                                <a href="{% url 'change_password' %}">Change Password</a>
                                {% endif %}
                            </div>
                        </div>
                    </div>
                </div>
            </div>
        </div>
    </div>
    <!-- User Info -->

```

```

<div class="col-lg-4">
  <div class="card">
    <div class="card-body">
      <h3 class="card-title">User Information</h3>
      <ul class="list-group list-group-flush">
        <li class="list-group-item"><strong>Username: </strong>
{{user.username}}</li>
        <li class="list-group-item"><strong>Email: </strong> {{user.email}}</li>
        <li class="list-group-item"><strong>Join Date: </strong>
{{user.date_joined}}</li>
      </ul>
      <div class="container">
        <div class="row">
          <div class="col-md-6 w-50">
            <a href="{% url 'edit_profile' %}" class="btn btn-primary">Edit
Profile</a>
          </div>
          <div class="col-md-6 w-50">
            {% if user.is_staff %}
            <a href="/library-admin">Login as admin</a>
            {% else %}
            <a href="{% url 'logout' %}">Logout</a>
            {% endif %}
          </div>
        </div>
      </div>
    </div>
  </div>
</div>

```

```

<!-- Borrowed Books -->
<div class="container">
  <h3 class="mb-3 fw-bold">Borrowed Books</h3>
  <table class="table">
    <thead>
      <tr>
        <th>Title</th>
        <th>Author</th>
        <th>Issue Date</th>
        <th>Return Date</th>
      </tr>
    </thead>
    <tbody>
      {% for book in books %}
      <tr>
        <td>{{book.book_id.book_name}}</td>
        <td>{{book.book_id.author_name}}</td>
        <td>{{book.issue_date}}</td>
        <td>{{book.return_date}}</td>
      </tr>
      {% endfor %}
    </tbody>
  </table>

```



```

    </table>
    <a class="btn btn-primary mb-5 text-white text-decoration-none w-100 fw-bold" href="{%
url 'history' %}">View
    More</a>
</div>
</div>
{% endblock %}

```

## Edit profile

```

{% extends 'base.html' %}
{% block content %}

<h2 class="text-center display-6 m-3">Edit Your Profile</h2>
<div class="container border border-dark p-3 mt-4 rounded-md" id="form-container">
  <form action="{% url 'edit_profile' %}" method="POST">
    {% csrf_token %}
    <div class="form-group">
      <label><b>First Name</b></label>
      <input type="text" name="first_name" class="form-control" placeholder="First Name">
    </div>

    <div class="form-group">
      <label><b>Last Name</b></label>
      <input type="text" name="last_name" class="form-control" placeholder="Last Name">
    </div>

    <div class="form-group">
      <label><b>Username</b></label>
      <input type="text" name="username" class="form-control" placeholder="Username">
    </div>

    <div class="form-group">
      <label><b>Email</b></label>
      <input type="text" name="email" class="form-control" placeholder="Email Address">
    </div>

    <button type="submit" class="btn btn-primary mt-3 w-100">Submit</button>
  </form>

  {% if messages %}
  <div class="messages mt-3">
    {% for message in messages %}
    <div {% if message.tags %} class="alert alert-{{ message.tags }}" {% endif %}>
      {{ message }}
    </div>
    {% endfor %}
  </div>
  {% endif %}

```

```
</div>
{% endblock %}
```

## Change password

```
{% extends 'base.html' %}
{% block content %}

<h2 class="text-center display-6 m-3">Change Password</h2>
<div class="container border border-dark p-3 mt-4 rounded-md" id="form-container">
  <form action="{% url 'change_password' %}" method="POST">
    {% csrf_token %}
```

```
    <!-- Old Password -->
    <div class="form-group">
      <label for="id_old_password">Old Password</label>
      <input type="password" class="form-control" id="id_old_password"
name="old_password">
    </div>
```

```
    <!-- New Password -->
    <div class="form-group">
      <label for="id_new_password1">New Password</label>
      <input type="password" class="form-control" id="id_new_password1"
name="new_password">
    </div>
```

```
    <!-- Confirm New Password -->
    <div class="form-group">
      <label for="id_new_password2">Confirm New Password</label>
      <input type="password" class="form-control" id="id_new_password2"
name="confirm_new_password">
    </div>
```

```
    <button type="submit" class="btn btn-primary mt-3 w-100">Submit</button>
  </form>
```

```
{% if messages %}
<div class="messages mt-3">
  {% for message in messages %}
    <div {% if message.tags %} class="alert alert-danger" {% else %} class="alert
alert-{{ message.tags }}" {% endif %}>
      {{ message }}
    </div>
  {% endfor %}
</div>
{% endif %}
</div>
{% endblock %}
```

## Views.py

```
from django.http import FileResponse, HttpResponseRedirect
from django.shortcuts import get_object_or_404, redirect, render
from django.urls import reverse
from .models import *
from .forms import *
from django.contrib import messages
from django.contrib.auth.models import auth, User
from django.db.models import Q
from django.contrib.auth.decorators import login_required
from datetime import date
from django.core.paginator import Paginator
from django.contrib.auth import update_session_auth_hash
from django.core.mail import send_mail

# ----- E-Library Management System Views -----
```

```
# Home Page
```

```
def index(request):
    books = Book.objects.all()[:4]
    categories = Categories.objects.all()
```

```
    return render(request, "index.html", {'books': books, 'categories': categories})
```

```
# Login Page
```

```
def login(request):
```

```
    # If request is post then get username and password from request
    if request.method == "POST":
        username = request.POST["username"]
        password = request.POST["password"]
```

```
    # Authenticate user
```

```
    user = auth.authenticate(username=username, password=password)
```

```
    # If user is authenticated then login user
```

```
    if user is not None:
        auth.login(request, user)
```

```
    # Redirect to home page
```

```
    return redirect("/")
```

```
    else:
```

```
    # If user is not authenticated then show error message
```

```
    # and redirect to login page
```

```
    messages.info(request, "Invalid Credential")
```

```
        return redirect("login")
    else:
```

```
        # If request is not post then render login page
        return render(request, "login.html")
```

```
# Register Page
```

```
def register(request):
```

```
    # If request is post then get user details from request
    if request.method == "POST":
        first_name = request.POST["first_name"]
        last_name = request.POST["last_name"]
        username = request.POST["username"]
        email = request.POST["email"]
        password = request.POST["password"]
        confirm_password = request.POST["confirm_password"]
```

```
    # Check if password and confirm password matches
    if password == confirm_password:
```

```
        # Check if username or email already exists
        if User.objects.filter(username=username).exists():
            messages.info(request, "Username already exist")
            return redirect("register")
```

```
        # Check if email already exists
        elif User.objects.filter(email=email).exists():
            messages.info(request, "Email already registered")
            return redirect("register")
```

```
    # If username and email does not exists then create user
    else:
```

```
        # Create user
        user = User.objects.create_user(
            first_name=first_name,
            last_name=last_name,
            username=username,
            email=email,
            password=password,
        )
```

```
        # Save user
        user.save()
```

```
        # Redirect to login page
        return redirect("login")
    else:
```

```
        # If password and confirm password does not matches then show error message
        messages.info(request, "Password does not match")
        return redirect("register")
    else:
```

```
# If request is not post then render register page
return render(request, "register.html")
```

```
# Logout view to logout user
def logout(request):
```

```
# Logout user and redirect to home page
auth.logout(request)
return redirect("/login")
```

```
# Issue view to issue book to user
@login_required(login_url="login")
def issue(request):
```

```
# If request is post then get book id from request
if request.method == "POST":
    book_id = request.POST["book_id"]
    current_book = Book.objects.get(id=book_id)
    book = Book.objects.filter(id=book_id)
    issue_book = IssuedItem.objects.create(
        user_id=request.user, book_id=current_book
    )
    issue_book.save()
    book.update(quantity=book[0].quantity - 1)
```

```
# Show success message and redirect to issue page
messages.success(request, "Book issued successfully.")
```

```
# Get all books which are not issued to user
my_items = IssuedItem.objects.filter(
    user_id=request.user, return_date__isnull=True
).values_list("book_id")
books = Book.objects.exclude(id__in=my_items).filter(quantity__gt=0)
```

```
# Return issue page with books that are not issued to user
return render(request, "issue_book.html", {"books": books})
```

```
# Return view to return book to library
@login_required(login_url="login")
def return_book(request):
```

```
# If request is post then get book id from request
if request.method == "POST":
```

```
# Get book id from request
book_id = request.POST["book_id"]
```

```
# Get book object
current_book = Book.objects.get(id=book_id)
```

```
# Update book quantity
book = Book.objects.filter(id=book_id)
book.update(quantity=book[0].quantity + 1)
```

```
# Update return date of book and show success message
issue_book = IssuedItem.objects.filter(
    user_id=request.user, book_id=current_book, return_date__isnull=True
)
issue_book.update(return_date=date.today())
messages.success(request, "Book returned successfully.")
```

```
# Get all books which are issued to user
my_items = IssuedItem.objects.filter(
    user_id=request.user, return_date__isnull=True
).values_list("book_id")
```

```
# Get all books which are not issued to user
books = Book.objects.exclude(~Q(id__in=my_items))
```

```
# Return return page with books that are issued to user

return render(request, "return_book.html", {"books": books})
```

```
# History view to show history of issued books to user
@login_required(login_url="login")
def history(request):
```

```
# Get all issued books to user
my_items = IssuedItem.objects.filter(user_id=request.user).order_by("-issue_date")
```

```
# Paginate data
paginator = Paginator(my_items, 10)
```

```
# Get page number from request
page_number = request.GET.get("page")
show_data_final = paginator.get_page(page_number)
```

```
# Return history page with issued books to user
return render(request, "history.html", {"books": show_data_final})
```

```
def guest_user(request):
```

```
# Get all books which are not issued to user
books = Book.objects.all()[:4]
categories = Categories.objects.all().values()
```

```
return render(request, 'guest_user.html', {'books': books, 'categories': categories,})
```

```
# contact form
```

```
def contact_us(request):
    if request.method == 'POST':
        name = request.POST["name"]
        from_email = request.POST["from_email"]
        message = request.POST["message"]

        try:
            send_mail(
```

```

        'Contact Form Submission',
        f'''Name: {name}
            Email: {from_email}
            Message: {message}'''',
        from_email, #your email
        ['abdufataiyakub02@gmail.com'], #Recipient email
        fail_silently=False,
    ),
    messages.success(request, 'Your message was sent successfully. We will get
back to you soon.')
    except Exception as e:
        messages.error(request, f'Something went wrong. Please try again later. Error:
{str(e)}')
    return redirect('contact_us')
else:
    return render(request, 'contact_us.html')

```

```

@login_required(login_url="login")
def view_profile(request):
    datas = User.objects.all().values()
    # Get all issued books to user
    my_items = IssuedItem.objects.filter(user_id=request.user).order_by("-issue_date")[:5]

    context = {
        'datas' : datas,
        'books' : my_items
    }

```

```

    return render(request, 'profile/view_profile.html', context)

```

```

@login_required(login_url="login")
def edit_profile(request):
    if request.method == 'POST':
        user = request.user
        user.first_name = request.POST.get('first_name')
        user.last_name = request.POST.get('last_name')
        user.username = request.POST.get('username')
        user.email = request.POST.get('email')
        user.save()

```

```

    messages.success(request, 'Your profile has been updated successfully.')
    return redirect('edit_profile')

```

```

else:

```

```

    return render(request, 'profile/edit_profile.html')

```

```

@login_required(login_url="login")
def change_password(request):
    if request.method == 'POST':
        old_password = request.POST['old_password']
        new_password = request.POST['new_password']
        confirm_new_password = request.POST["confirm_new_password"]

```

```

    # Verify old password
    if not request.user.check_password(old_password):
        messages.error(request, 'Old password is incorrect.')
    elif new_password != confirm_new_password:
        messages.error(request, 'New passwords do not match.')
    else:
        # Change the password
        request.user.set_password(new_password)
        request.user.save()

```

```

    # Update the user's session to prevent them from being logged out
    update_session_auth_hash(request, request.user)

```

```

    messages.success(request, 'Your password has been changed successfully.')
    return redirect('change_password')

```

```

    return render(request, "profile/change_password.html")

```

```

@login_required(login_url="login")
def read_book(request, book_id):
    book = get_object_or_404(Book, pk=book_id)

```

```

    # Construct the full path to the book content file
    content_file_path = book.content_file.path

```

```

    # Serve the file as a response
    response = FileResponse(open(content_file_path, 'rb'))
    return response

```

## Urls.py

```

# Importing required libraries
from django.urls import path
from django.conf import settings
from django.conf.urls.static import static
from . import views

# Url patterns for Books app module of Library Management System
urlpatterns = [
    path("", views.index, name="index"),
    path("issue/", views.issue, name="issue"),
    path("return_book/", views.return_book, name="return_book"),
    path("history/", views.history, name="history"),
    path("register/", views.register, name="register"),
    path("login/", views.login, name="login"),
    path("logout/", views.logout, name="logout"),
    path('guest_user/', views.guest_user, name='guest_user'),
    path('profile/', views.view_profile, name='view_profile'),

```



```

path('profile/edit/', views.edit_profile, name='edit_profile'),
path('profile/change_password/', views.change_password, name='change_password'),
path('contact/', views.contact_us, name='contact_us'),
path('read_book/<int:book_id>', views.read_book, name='read_book'),
]

```

```

if settings.DEBUG:
    urlpatterns += static(settings.MEDIA_URL,
                           document_root=settings.MEDIA_ROOT)

```

## Models.py

```

from django.db import models
from django.contrib.auth.models import User
from datetime import date
from django.utils import timezone

# ----- E-Library Management System Models -----

```

```

# Book model to store book details
class Book(models.Model):
    image = models.ImageField(upload_to='book_images/',
default='book_images/default_big.png')
    book_name = models.CharField(max_length=150)
    author_name = models.CharField(max_length=200)
    quantity = models.IntegerField(default=1)
    content_file = models.FileField(upload_to='book_content/', default='book_content/link-
expired.txt')
    subject = models.CharField(max_length=2000)
    book_add_time = models.TimeField(default=timezone.now())
    book_add_date = models.DateField(default=date.today())

```

```

class Meta:
    unique_together = ("book_name", "author_name")

```

```

def __str__(user):
    return user.book_name

```

```

# IssuedItem model to store issued book details
class IssuedItem(models.Model):
    book_id = models.ForeignKey(Book, on_delete=models.CASCADE)
    user_id = models.ForeignKey(User, on_delete=models.CASCADE)
    issue_date = models.DateField(default=date.today(), blank=False)
    return_date = models.DateField(blank=True, null=True)

```

```

# property to get book name
@property
def book_name(user):
    return user.book_id.book_name

```

```

# property to get author name

```

```
@property
def username(user):
    return user.user_id.author_name
```

```
def __str__(user):
    return (
        user.book_id.book_name
        + " read by "
        + user.user_id.first_name
        + " on "
        + str(user.issue_date)
    )
```

```
class User(models.Model):
    first_name = models.CharField(max_length=100)
    last_name = models.CharField(max_length=100)
```

```
def __str__(user):
    return f"{user.first_name} - {user.last_name}"
```

```
class Categories(models.Model):
    category_name = models.CharField(max_length=100)
```

```
# property to get book name
@property
def book_name(user):
    return user.category_name
```

```
def __str__(user):
    return f"{user.category_name}"
```

## Admin.py

```
from django.contrib import admin
from .models import Book, IssuedItem, Categories

# Register your models here
```

```
admin.site.register(Book)
admin.site.register(IssuedItem)
admin.site.register(Categories)
```

## Urls.py

```
"""
URL configuration for Elibrary project.

The `urlpatterns` list routes URLs to views. For more information please see:
    https://docs.djangoproject.com/en/4.2/topics/http/urls/
Examples:
Function views
    1. Add an import:  from my_app import views
    2. Add a URL to urlpatterns:  path('', views.home, name='home')
Class-based views
    1. Add an import:  from other_app.views import Home
    2. Add a URL to urlpatterns:  path('', Home.as_view(), name='home')
Including another URLconf
    1. Import the include() function: from django.urls import include, path
    2. Add a URL to urlpatterns:  path('blog/', include('blog.urls'))
"""
from django.contrib import admin
from django.urls import path, include
```

```
urlpatterns = [
    path('', include('Library.urls')),
    path('library-admin/', admin.site.urls),
]
```

## Settings.py

```
"""
Django settings for Elibrary project.

Generated by 'django-admin startproject' using Django 4.2.
```

```
For more information on this file, see
https://docs.djangoproject.com/en/4.2/topics/settings/
```

```
For the full list of settings and their values, see
https://docs.djangoproject.com/en/4.2/ref/settings/
"""
```

```
import os
from pathlib import Path
```

```
# Build paths inside the project like this: BASE_DIR / 'subdir'.
```

```
BASE_DIR = Path(__file__).resolve().parent.parent
```

```
# Quick-start development settings - unsuitable for production
```

```
# See https://docs.djangoproject.com/en/4.2/howto/deployment/checklist/
```

```
# SECURITY WARNING: keep the secret key used in production secret!
```

```
SECRET_KEY = "django-insecure-f4n3bd3@5vgaacqz(+a&)2hkm-@gr@j*r@wu)l0q+a+)7e0c*z"
```

```
# SECURITY WARNING: don't run with debug turned on in production!
```

```
DEBUG = True
```

```
ALLOWED_HOSTS = []
```

```
# Application definition
```

```
INSTALLED_APPS = [  
    "django.contrib.admin",  
    "django.contrib.auth",  
    "django.contrib.contenttypes",  
    "django.contrib.sessions",  
    "django.contrib.messages",  
    "django.contrib.staticfiles",  
    "Library"  
]
```

```
LOGIN_REDIRECT_URL = '/'
```

```
LOGOUT_REDIRECT_URL = '/'
```

```
MEDIA_URL = '/media/'
```

```
MEDIA_ROOT = os.path.join(BASE_DIR, 'media')
```

```
MIDDLEWARE = [  
    "django.middleware.security.SecurityMiddleware",  
    "django.contrib.sessions.middleware.SessionMiddleware",  
    "django.middleware.common.CommonMiddleware",  
    "django.middleware.csrf.CsrfViewMiddleware",  
    "django.contrib.auth.middleware.AuthenticationMiddleware",  
    "django.contrib.messages.middleware.MessageMiddleware",  
    "django.middleware.clickjacking.XFrameOptionsMiddleware",  
]
```

```
ROOT_URLCONF = "Library.urls"
```

```
TEMPLATES = [  
    {  
        "BACKEND": "django.template.backends.django.DjangoTemplates",  
        "DIRS": ["Library/templates"],  
        "APP_DIRS": True,  
        "OPTIONS": {  
            "context_processors": [  
                "django.template.context_processors.debug",  
                "django.template.context_processors.request",
```

```
        "django.contrib.auth.context_processors.auth",
        "django.contrib.messages.context_processors.messages",
    ],
},
],
```

```
WSGI_APPLICATION = "Elibrary.wsgi.application"
```

```
# Database
# https://docs.djangoproject.com/en/4.2/ref/settings/#databases
```

```
DATABASES = {
    "default": {
        "ENGINE": "django.db.backends.sqlite3",
        "NAME": BASE_DIR / "db.sqlite3",
    }
}
```

```
# Password validation
# https://docs.djangoproject.com/en/4.2/ref/settings/#auth-password-validators
```

```
AUTH_PASSWORD_VALIDATORS = [
    {
        "NAME": "django.contrib.auth.password_validation.UserAttributeSimilarityValidator",
    },
    {
        "NAME": "django.contrib.auth.password_validation.MinimumLengthValidator",
    },
    {
        "NAME": "django.contrib.auth.password_validation.CommonPasswordValidator",
    },
    {
        "NAME": "django.contrib.auth.password_validation.NumericPasswordValidator",
    },
]
```

```
# Internationalization
# https://docs.djangoproject.com/en/4.2/topics/i18n/
```

```
LANGUAGE_CODE = "en-us"
```

```
TIME_ZONE = "UTC"
```

```
USE_I18N = True
```

```
USE_TZ = True
```

```
# Static files (CSS, JavaScript, Images)
# https://docs.djangoproject.com/en/4.2/howto/static-files/
```

```
STATIC_URL = "static/"
```

```
# Default primary key field type  
# https://docs.djangoproject.com/en/4.2/ref/settings/#default-auto-field
```

```
DEFAULT_AUTO_FIELD = "django.db.models.BigAutoField"
```