

Community Cafe with Hobby Builder Platforms

A MINI PROJECT REPORT

Submitted by

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in partial fulfillment of the award of the degree

of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING



**RAJALAKSHMI
ENGINEERING COLLEGE**
An AUTONOMOUS Institution
Affiliated to ANNA UNIVERSITY, Chennai

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AUTONOMOUS, CHENNAI

NOV/DEC, 2024

BONAFIDE CERTIFICATE

Certified that this mini project “**Community Cafe with Hobby Builder Platform**” is the bonafide work of “**J JESSIELYN JENISHA (220701901)**” who carried out the project work under my supervision.

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ACKNOWLEDGEMENT

I express my sincere thanks to my beloved and honorable chairman **Mr. S. MEGANATHAN** and the chairperson **Dr. M. THANGAM MEGANATHAN** for their timely support and encouragement.

I am greatly indebted to my respected and honorable principal **Dr. S.N.MURUGESAN** for his able support and guidance.

No words of gratitude will suffice for the unquestioning support extended to us by my head of the department **Dr. P. KUMAR**, and my Academic Head **Dr.R.SABITHA**, for being ever supporting force during my project work.

I also extend my sincere and hearty thanks to my internal guide **Mrs. JANANEE V** for her valuable guidance and motivation during the completion of this project.

My sincere thanks to my family members, friends and other staff members of Computer Science and Engineering.

J Jessielyn Jenisha (2116220701901)

ABSTRACT

This project focuses on developing a full-stack web application designed to manage the operations of a diverse business that includes a book cafe, library, bookstore, floral shop, and a community section featuring a hobby builder platform. Built with PHP for the backend, frontend using HTML, CSS, and JavaScript and MySQL for database management, the system will streamline operations and enhance customer experience across all services. Key features include online ordering and reservations for the cafe, a book borrowing and purchasing system for the library, product ordering for the floral shop, and a platform for users to share and collaborate on various hobbies and activities in the community section.

Additionally, each service (cafe, library, floral shop) will allow workers to manage and update their offerings, including adding or deleting items from menus, book collections, or product catalogs. The system will also manage customer accounts, allowing users to view order histories, participate in loyalty programs, and manage their profiles. Members will regularly be invited to attend exclusive events, such as book readings, floral arrangement workshops, and hobby-building sessions, all of which can be easily registered for through the platform.

The frontend, developed with responsive HTML, CSS for styling, and JavaScript for interactivity and dynamic features, ensures an engaging and user-friendly experience. The backend will ensure secure, scalable, and efficient data management, while the user interface will remain responsive and easy to navigate. This project aims to deliver a comprehensive, robust platform that supports seamless business operations, fosters community engagement, and improves overall customer satisfaction.

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CHAPTER 1

INTRODUCTION

1.1. INTRODUCTION

This project focuses on creating a multi-module, full-stack web application designed to efficiently manage the operations of a diversified business that integrates a book cafe, library, bookstore, floral shop, and a community-based hobby builder platform. With modern businesses catering to customer needs across various domains, it is essential to create a system that not only supports day-to-day operations but also enhances customer engagement and streamlines the business's backend processes. Through an easy-to-use web application, the system ensures seamless service delivery across the cafe, library, and floral shop. This project employs a comprehensive approach where customers can make reservations, place orders, manage their accounts, and participate in community events. Each business module is designed to allow workers to manage their sections by adding or deleting items from menus, inventories, and product lists. The system also fosters a strong sense of community by incorporating a hobby builder platform that enables customers to share and collaborate on activities.

1.2. SCOPE OF WORK

The scope of this project covers the design, development, and deployment of a full-stack web application. The application is modular, with distinct sections for the cafe, library, floral shop, and the hobby builder platform. The cafe module includes functionalities for online ordering and reservations, while the library allows users to borrow and purchase books. The floral shop facilitates product ordering, and the hobby builder platform allows users to collaborate and participate in hobby-based activities. Each module includes administrative functionality where workers can update menus, book collections, and products by adding or removing items. The project also includes customer account management, order tracking, event registration, and loyalty programs. This scope ensures that both workers and customers have a seamless experience in managing and interacting with the system.

1.3 AIM AND OBJECTIVES

This project aims to develop a full-stack web application that integrates and streamlines the operations of a multi-faceted business, including a cafe, library, floral shop, and a community hobby builder platform, while providing a user-friendly interface and efficient backend management.

Objectives:

1. Develop modules for the cafe, library, and floral shop to facilitate online ordering, reservations, book borrowing, product purchasing, and menu management.
2. Create an admin interface for workers to easily manage their sections by adding and deleting items from the system.
3. Build a hobby builder platform in the community section, enabling users to share, collaborate, and register for events.
4. Implement customer account management, loyalty programs, and event registration functionalities.
5. Ensure the system is secure, scalable, and efficient, supporting the needs of both workers and customers.

CHAPTER 2

SYSTEM SPECIFICATIONS

2.1. HARDWARE SPECIFICATIONS

Processor: Intel Core i5 or higher

RAM: 8 GB or higher

Storage: 256 GB SSD or higher

2.2. SOFTWARE SPECIFICATIONS

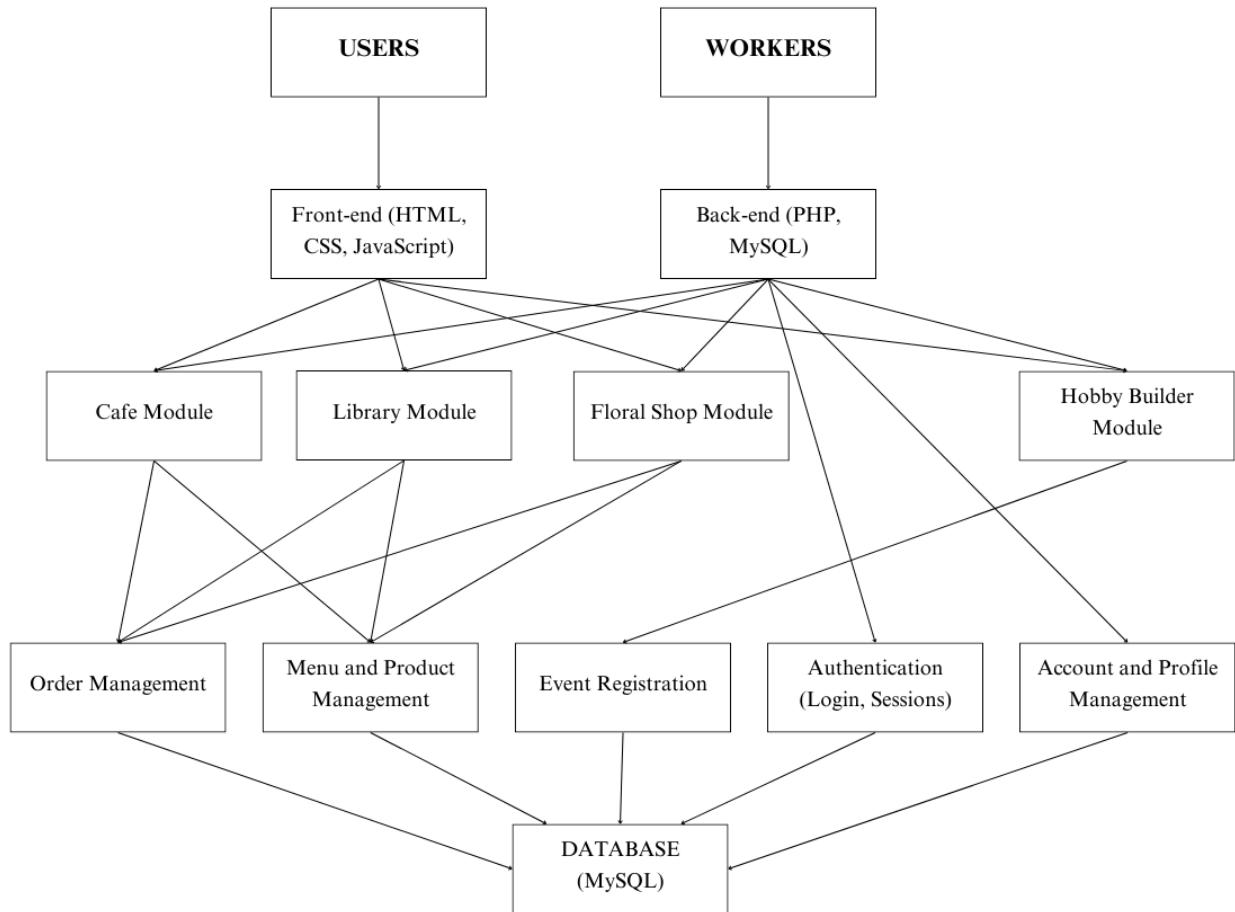
Operating System: Windows 10 / macOS / Linux

Front End: HTML, CSS, Javascript

Back End: PHP, MySQL

CHAPTER 3

ARCHITECTURE DIAGRAM



CHAPTER 4

MODULE DESCRIPTION

4.1. CAFE MODULE

The cafe module is designed to manage the day-to-day operations of the book cafe. Customers can view the menu, and participate in events. Workers have access to a backend interface where they can update the menu by adding or deleting items, track orders, and view reservation details.

Features:

- **View Menu:** Customers can browse the menu online.
- **View Events:** Customers can check out upcoming cafe events and seasonal additions.
- **Menu Management (Admin):** Workers can update the menu by adding new items or removing existing ones.

4.2. LIBRARY MODULE

The library module allows customers to browse and borrow books either physically or digitally. Users can sign up for a membership to borrow books, reserve books for pickup, and access exclusive events like book readings. Workers can manage the book inventory, update book details, and track borrowing history.

Features:

- **Book Borrowing System:** Users can check the availability of books, borrow books, or reserve them.
- **Event Registration:** Users can sign up for book reading events hosted at the library.
- **Book Inventory Management (Admin):** Workers can add new books, remove old books, and update the book inventory as needed.

4.3. FLORAL SHOP MODULE

The floral shop module offers users the ability to browse floral arrangements, purchase bouquets, and place customized orders. Workers in the floral shop can update the flower inventory, add new products, and process online orders.

Features:

- **Flower Ordering:** Customers can order floral arrangements and request custom bouquets.
- **Product Inventory Management (Admin):** Workers can add or remove flower arrangements and update product descriptions.
- **Event Integration:** Users can participate in floral workshops by registering online.

4.4. COMMUNITY BUILDER PLATFORM (Hobby Builder Module)

The community builder platform allows users to participate in hobby-related activities and community events. The platform includes tools for users to register for workshops such as book readings, floral arrangement classes, and hobby builder groups. This module enhances community engagement by facilitating a shared space for hobbies and events.

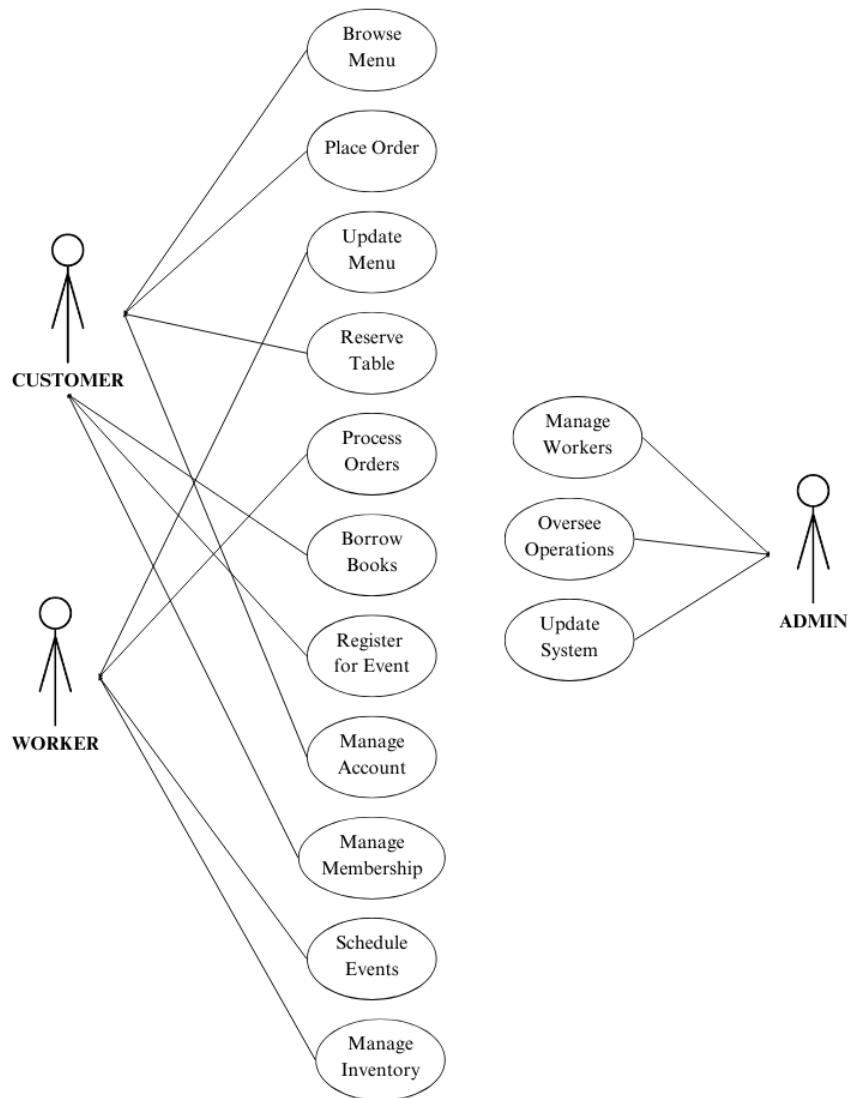
Features:

- **Event Registration:** Users can sign up for various hobby-related events hosted by the community.
- **Event Management (Admin):** Workers can create and manage events, send invitations, and view participant details.
- **Community Forum:** Users can discuss and share their hobby-related interests and experiences.

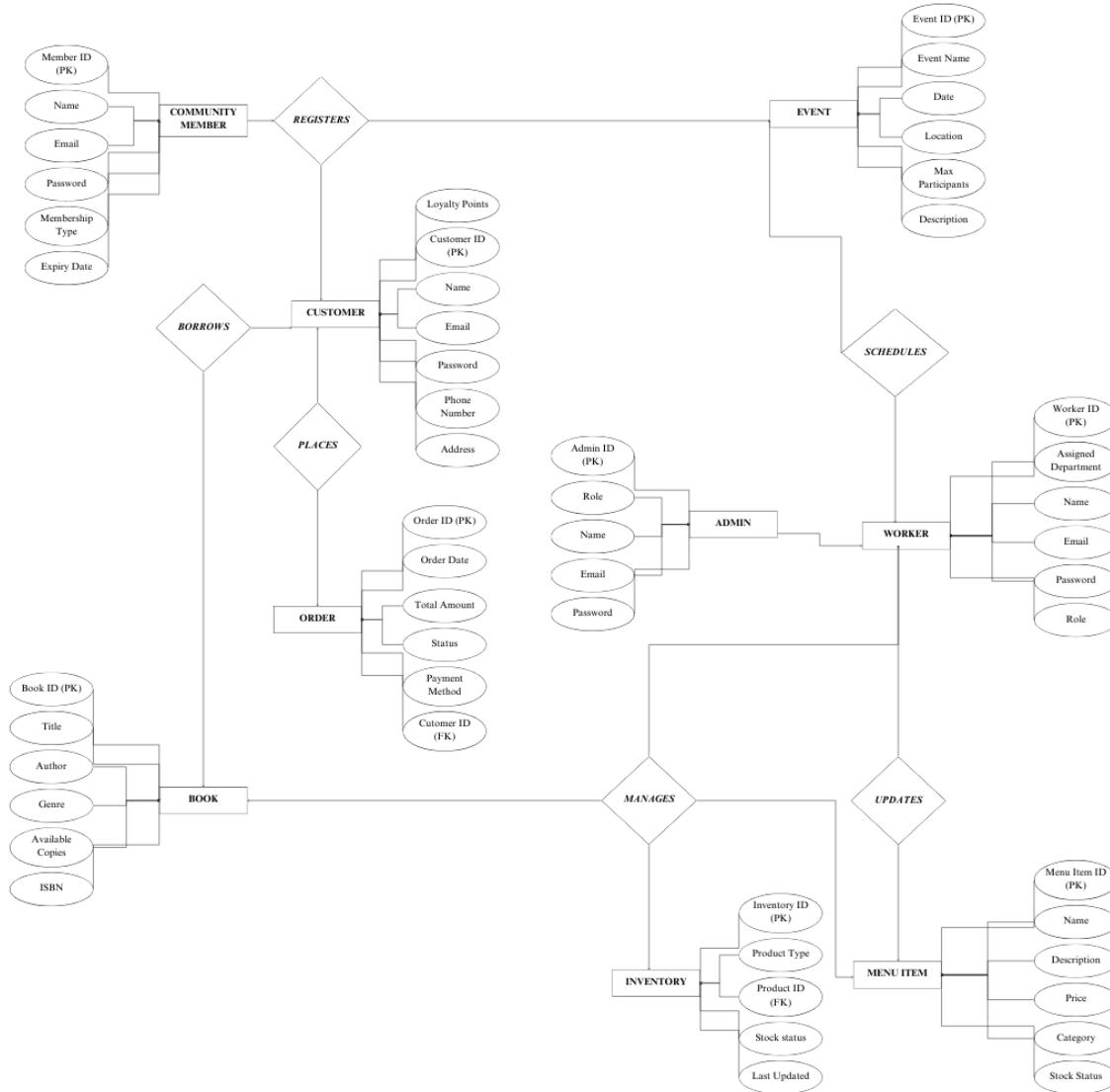
CHAPTER 5

DIAGRAMS

5.1. USE CASE DIAGRAM



5.1. ER DIAGRAM



CHAPTER 6

SAMPLE CODING

6.1. INDEX.HTML

```
<!DOCTYPE html>
<html lang="en">

<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>THE STORY BEHIND</title>
<link rel="stylesheet" href="styles1.css">
<link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Playfair+Display">
<link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Averia+Serif+Libre">
<link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Cutive">
<link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Abrial+Fatface">
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha3/dist/css/bootstrap.min.css" rel="stylesheet">
</head>

<body>
<header>
<h1><b>THE STORY BEHIND</b></h1>
<nav>
<ul>
<li><a href="cafe.html">CAFE</a></li>
<li><a href="library.html">LIBRARY</a></li>
<li><a href="florist.html">FLORAL SHOP</a></li>
```

```
<li><a href="#community">COMMUNITY</a></li>
<li><a href="#eventsCarousel">EVENTS</a></li>
</ul>
</nav>
</header>

<!-- Hero Section with Animation -->
<section id="hero">
  <h2>Discover, Enjoy, and Connect</h2>
  <p>Your one-stop destination for books, coffee, flowers, and community!</p>
  
  <button onclick="window.location.href='#cafe'">Explore Now</button>
</section>

<section class="services">
  <div class="service" id="cafe">
    <h3>Cafe</h3>
    </a>
    <p>Check out our special drinks and snacks. <a href="cafe.html">Check out the seasonal menu!</a></p>
  </div>
  <div class="service" id="library">
    <h3>Library & Bookstore</h3>
    
    <p>Browse books and make reservations. <a href="library.html">Explore books!</a></p>
  </div>
```

```
<div class="service" id="floral">
    <h3>Floral Shop</h3>
    
    <p>Order beautiful flower arrangements. <a href="florist.html">See floral
designs!</a></p>
</div>
<div class="service" id="community">
    <h3>Community Building</h3>
    
    <p>Join a vibrant community of hobby builders from various paths of life. <a
href="#community">Join us!</a>
</p>
</div>
</section>
```

```
<!-- Events Section -->
<div id="eventsCarousel" class="carousel slide" data-bs-ride="carousel">
    <!-- Indicators -->
    <ol class="carousel-indicators">
        <li data-bs-target="#eventsCarousel" data-bs-slide-to="0" class="active"></li>
        <li data-bs-target="#eventsCarousel" data-bs-slide-to="1"></li>
        <li data-bs-target="#eventsCarousel" data-bs-slide-to="2"></li>
        <li data-bs-target="#eventsCarousel" data-bs-slide-to="3"></li>
    </ol>
```

```
<!-- Wrapper for slides -->
<div class="carousel-inner">
    <!-- New Slide for Upcoming Events -->
    <div class="carousel-item active">
```

```
<div class="carousel-front" >
  <h1>Upcoming Events</h1>
</div>
</div>

<div class="carousel-item">
  
  <div class="carousel-caption1">
    <h3>Book Reading: "A Voice in the Wind"</h3>
    <p>October 20th</p>
  </div>
</div>

<div class="carousel-item">
  
  <div class="carousel-caption1">
    <h3>Flower Arrangement Workshop</h3>
    <p>November 1st</p>
  </div>
</div>

<div class="carousel-item">
  
  <div class="carousel-caption1">
    <h3>Community Meetup</h3>
    <p>November 10th</p>
  </div>
</div>
</div>

<!-- Left and right controls -->
```

```
<a class="carousel-control-prev" href="#eventsCarousel" role="button"  
data-bs-slide="prev">  
  <span class="carousel-control-prev-icon" aria-hidden="true"></span>  
  <span class="visually-hidden">Previous</span>  
</a>  
<a class="carousel-control-next" href="#eventsCarousel" role="button"  
data-bs-slide="next">  
  <span class="carousel-control-next-icon" aria-hidden="true"></span>  
  <span class="visually-hidden">Next</span>  
</a>  
</div>
```

```
<section id="login1">  
  <h2>Join Us!</h2>  
  <form id="loginForm">  
    <button type="button" id="loginButton"  
    onclick="window.location.href='login.php'">Login</button>  
    <button type="button" id="signupButton"  
    onclick="window.location.href='signUp.php'">Sign Up</button>  
  </form>  
</section>
```

```
<!-- jQuery -->  
<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>  
<!-- Bootstrap JS -->  
<script  
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha3/dist/js/bootstrap.bundle.min.js"></script>  
<script>
```

```
let slideIndex = 0;
showSlides();

function plusSlides(n) {
    slideIndex += n;
    showSlides();
}

function showSlides() {
    let slides = document.getElementsByClassName("carousel-slide");
    if (slideIndex >= slides.length) {
        slideIndex = 0;
    }
    if (slideIndex < 0) {
        slideIndex = slides.length - 1;
    }
    for (let i = 0; i < slides.length; i++) {
        slides[i].style.display = "none";
    }
    slides[slideIndex].style.display = "block";
}

</script>

<!-- Footer -->
<footer>
    <p>&copy; 2024 THE STORY BEHIND</p>
</footer>
</body>
</html>
```

CHAPTER 7

SCREENSHOTS

7.1. HOMEPAGE

The screenshot shows the homepage of a website. At the top, there is a decorative header with a tropical jungle theme. Below it, a main title "THE STORY BEHIND" is displayed in bold white letters. Underneath the title, a navigation bar includes links for CAFE, LIBRARY, FLORAL SHOP, COMMUNITY, and EVENTS. The central part of the page features a large, bold red text "Discover, Enjoy, and Connect". Below this, a smaller text reads "Your one-stop destination for books, coffee, flowers, and community!". A large, detailed illustration of a cafe interior with bookshelves and a menu board is shown. At the bottom, there is a pink banner with a red "Explore Now" button. The main content area is divided into four sections: "Cafe", "Library & Bookstore", "Floral Shop", and "Community Building", each with its own image and descriptive text.

THE STORY BEHIND

CAFE LIBRARY FLORAL SHOP COMMUNITY EVENTS

Discover, Enjoy, and Connect

Your one-stop destination for books, coffee, flowers, and community!

Cafe

Check out our special drinks and snacks. [Check out the seasonal menu!](#)

Library & Bookstore

Browse books and make reservations. [Explore books!](#)

Floral Shop

Order beautiful flower arrangements. [See floral](#)

Community Building

Join a vibrant community of hobby builders from various paths of life. [Join us!](#)

Explore Now

Check out our special drinks and snacks. [Check out the seasonal menu!](#)

Browse books and make reservations. [Explore books!](#)

Order beautiful flower arrangements. [See floral designs!](#)

Join a vibrant community of hobby builders from various paths of life. [Join us!](#)



Flower Arrangement Workshop

November 1st

localhost:3000/index.html#eventsCarousel



Join Us!

[Login](#)[Sign Up](#)

SIGN UP

Name:

Gender:

Select your gender ▾

Date of Birth:

 dd - mm - yyyy

Username:

Email:

7.2. CAFE PAGE



Seasonal Additions

Pumpkin Spice Latte

A warm drink made with espresso, steamed milk, and pumpkin flavored syrup.

Dumpling Soup

Bite-sized doughy dumplings cooked in a flavorful broth.

DESSERT MENU

Search for a dessert...

All Categories

Sort by Price



Carrot Cake Doughnut
(2 pcs)

Price: \$2.00



Chocolate Chip
Cookies (4 pcs)

Price: \$2.00



Lemon Tart (4 pcs)

Price: \$2.00



Sugar Cookies (5 pcs)

Price: \$2.00



7.3. COMMUNITY PAGE

Join Our
Communities

< >>

© 2024 THE STORY BEHIND



7.4. ADMIN PAGE



LOGIN

Username:

Password:

Admin Dashboard

Cafe Library Floral Shop Events

New

Edit

Delete

Add Cafe Item

Category:

Price:

Type:

Image Source (URL or upload):

Alt Text:

Edit or Delete Cafe Item

Select Item to Edit or Delete:

CHAPTER 8

CONCLUSION

In conclusion, the implementation of a comprehensive cafe management system is essential for streamlining operations and enhancing customer experience across various services offered by the cafe, library, bookstore, and floral shop. This system provides a structured approach to managing orders, reservations, inventory, and customer interactions, thereby improving operational efficiency and fostering seamless customer engagement. By integrating user-friendly interfaces with secure backend processes, the system enables staff to update menus, track orders, manage workshops, and engage with the community effectively.

Through the development of this system, the cafe can not only enhance its day-to-day operations but also contribute to a stronger sense of community by offering hobby-related events, floral arrangement classes, book readings, and more. Continuous updates, data-driven insights, and collaboration between staff and customers will ensure the system evolves to meet the changing needs of both the business and its clientele.

Furthermore, the potential integration of emerging technologies such as real-time analytics and automated workflows can optimize the system's functionality, enabling predictive analysis of customer preferences and streamlined business operations. This proactive approach will help ensure that the cafe remains adaptive, responsive, and resilient in the face of evolving business demands. In essence, a well-structured cafe management system is a cornerstone for maintaining a robust, customer-focused environment, promoting business growth, and fostering long-term customer loyalty.

REFERENCES

1. HTML & CSS: Design and Build Web Sites by *Jon Duckett*
2. HTML5: The Missing Manual by *Matthew Randolph*
3. JavaScript and JQuery: Interactive Front-End Web Development by *Jon Duckett*
4. <https://www.w3schools.com/html/>
5. <https://www.w3schools.com/css/>
6. <https://www.w3schools.com/js/>
7. <https://www.w3schools.com/php/>
8. <https://www.w3schools.com/bootstrap5/>
9. <https://www.w3schools.com/jquery/>
10. <https://www.w3schools.com/mysql/>