

A
Mini Project Report On
RECIPE BOOK

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

BACHELOR OF TECHNOLOGY

In

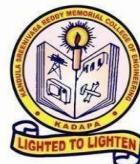
COMPUTER SCIENCE AND ENGINEERING

By

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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
K.S.R.M. COLLEGE OF ENGINEERING**

(An Autonomous institution affiliated to JNTUA, Anantapuramu , Accredited by NAAC With
A+ Grade)

**Kadapa, Andhra Pradesh, India– 516 003
2025-2026**

K.S.R.M. COLLEGE OF ENGINEERING

(An Autonomous institution affiliated to JNTUA, Anantapuramu , Accredited by NAAC With A+ Grade)

Kadapa, Andhra Pradesh, India– 516 003

VISION

To evolve as center of repute for providing quality academic programs amalgamated with creative learning and research excellence to produce graduates with leadership qualities, ethical and human values to serve the nation.

MISSION

M1: To provide high quality education with enriched curriculum blended with impactful teaching-learning practices.

M2: To promote research, entrepreneurship and innovation through industry collaborations.

M3: To produce highly competent professional leaders for contributing to Socioeconomic development of region and the nation.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Vision

To evolve as a recognized center of excellence in the area of Computer Science and Engineering and other related inter-disciplinary fields.

Mission

M1:: To produce competent and industry ready professionals through well balanced curriculum and innovative pedagogy.

M2:: To provide conducive environment for research by establishing centre of excellence and industry collaborations.

M3:: To instill leadership qualities, ethical values among students through various cocurricular and extracurricular activities.

B. Tech. (COMPUTER SCIENCE AND ENGINEERING)

Program Educational Objectives

B.Tech-Computer Science and Engineering Program Objectives.

A graduate of the K.S.R.M.C.E, C.S.E should have a successful career in CSE or a related field, and within three to five years, should

PEO1 - : To excel in their career as competent software engineer in IT and allied organizations.

PEO2 - : To pursue higher education and to demonstrate research temper for providing solutions to engineering problems.

PEO3 - : To contribute for the societal development by exhibiting leadership, through professional, social and ethical values.

Program Outcomes

PO1 - Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2 - Problem Analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 - Design/Development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4 - Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5 - Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

PO6 - The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7 - Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 - Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.

PO9 - Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 - Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions .

PO11 - Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12 - Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes

PSOs are statements that describe what the graduates of a specific engineering program should be able to do:

PSO1 - Professional Skills: The ability to understand, analyze and develop computer programs in the areas related to algorithms, system software, multimedia, web design, big data analytics, and networking for efficient design of computer-based systems of varying complexity.

PSO2 - Problem-Solving Skills: The ability to apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product for business success.

PSO3 - Successful Career and Entrepreneurship: The ability to employ modern computer languages, environments, and platforms in creating innovative career paths to be an entrepreneur, and a zest for higher studies.

Course Outcomes

- CO1.**Understand core concepts and research findings relative to human development, socialization, group dynamics and life course processes.
- CO2.** Identify and transfer existing ideas into new contexts and applications.
- CO3.** Apply and transfer academic knowledge into the real-world.
- CO4:**Design a component or a product applying all the relevant standards and with realistic Constraints.

CO-PO Mapping

Course Outcome	Program Outcomes												Program Specific Outcomes		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	2			3		2					3		
CO2	2	3	3		2									3	
CO3	3	3	3				2			2		2			3
CO4			3	2		3	2	2				2			3

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CERTIFICATE

This is to certify that the Mini Project Report entitled

RECIPE BOOK

is the bona fide work done & submitted by

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in the Department of Computer Science and Engineering,

K.S.R.M.C.E, Kadapa and is submitted to **Jawaharlal Nehru Technological University Anantapur, Ananthapuramu** in partial fulfilment of the requirements for the award of degree of Bachelor of Technology in Computer Science and Engineering during 2022-2026.

Supervisor

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Assistant professor.

Department of CSE.

Head of the Department

A. Ram Prakash Reddy,M.Tech,(Ph.D).

Assistant Professor & HOD

Department of CSE & Allied Branches.

DECLARATION

We hereby declare that this Mini Project report titled “**RECIPE BOOK**” is a genuine Mini projectwork carried out by us, in B. Tech (**Computer Science and Engineering**) degree course of Jawaharlal Nehru Technological University Anantapur and has not been submitted to any other course or University for the award of any degree by us.

Signature of the Student

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<i>S.SAMEERA</i>	(239Y1A05E6)
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We express our deep sense of gratitude to **A.Ram Prakash Reddy**, M.Tech., (Ph.D.), Assistant Professor and Head of Department of Computer Science and Engineering and Allied Branches for his valuable guidance and constant encouragement given to us during this Community Service project and the course.

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ABSTRACT

This project titled "Recipe/Food Book" is designed to serve as a digital or manual repository of various food recipes categorized by type, region, ingredients, or occasion. The aim of this project is to create an organized and user-friendly system that enables users to explore, search, and learn to prepare a wide range of dishes efficiently.

The recipe book includes detailed information for each dish, such as ingredients required, step-by-step preparation instructions, cooking time, difficulty level, and nutritional values. It may also include visual elements like images of the dishes, video tutorials, or user reviews for better engagement and understanding.

This project emphasizes ease of access, clarity in instructions, and diversity in cuisine to cater to users with different tastes and dietary preferences. Technologies such as HTML, CSS, JavaScript (for a website), or Python GUI frameworks like Tkinter (for a desktop app) can be used to enhance the digital version of the book.

The Recipe Book is not only a learning platform for beginners but also a valuable reference for experienced cooks looking to expand their culinary skills. This project encourages healthy eating, cultural exploration through food, and digital innovation in organizing and presenting recipes.

Each recipe entry includes:

- A high-quality image of the dish
- A list of ingredients
- Step-by-step cooking instructions
- Estimated cooking/preparation time
- Nutritional information (optional)

The website is designed to be responsive, ensuring it works seamlessly across devices including desktops, tablets, and smartphones. JavaScript is used to enhance interactivity—such as search filters, recipe popups, favorites list, or even a basic form for users to add new recipes (optional enhancement). This project combines the fundamentals of frontend web development with practical real-world application, making it an excellent mini-project for showcasing design, functionality, and user experience skills. It encourages creativity, promotes culinary learning, and demonstrates the ability to build structured and dynamic content for the web.

This recipe book is a curated collection of diverse and delicious recipes designed to inspire both novice cooks and seasoned chefs. It brings together a blend of traditional and modern dishes, spanning various cuisines and cooking styles. Each recipe includes clear, step-by-step instructions, a list of ingredients, preparation and cooking time, and helpful tips to enhance the cooking experience. Whether you're looking for quick meals, festive specials, healthy options, or indulgent desserts, this book offers something for every taste and occasion.

More than just a guide to cooking, it is a celebration of flavor, creativity, and the joy of sharing food.

This recipe book is a comprehensive culinary guide that brings together a wide assortment of dishes from various cuisines, cultures, and traditions. Created for food lovers of all skill levels—from beginners experimenting in the kitchen to experienced home cooks seeking inspiration—this collection covers everything from everyday meals to festive and seasonal specialties.

The book is organized into well-defined sections such as appetizers, main courses, snacks, desserts, and beverages, with each recipe accompanied by detailed instructions, ingredient lists, cooking times, nutritional tips, and variations to suit different dietary preferences. Special features include time-saving hacks, healthy substitutions, cooking techniques, and cultural insights behind select recipes, offering not just a how-to guide but also a deeper appreciation of food.

Beyond mere instructions, the recipe book emphasizes the role of food in bringing people together. It celebrates the art of cooking as an expression of creativity, love, and tradition. Whether you're preparing a simple family dinner or hosting a grand feast, this book serves as your trusted companion in the kitchen, helping you turn everyday ingredients into extraordinary meals.

CHAPTER 1

INTRODUCTION

Introduction to Recipe Book

The Recipe Book is a web-based application designed to provide users with easy access to a collection of delicious and well-organized food recipes. Built using HTML, CSS, and JavaScript, this project serves as a digital platform where users can explore a wide variety of recipes from different cuisines and categories such as breakfast, lunch, dinner, snacks, and desserts.

In today's fast-paced world, people often look for quick and reliable cooking guides. This online recipe book offers a solution by presenting recipes in a simple and user-friendly format, allowing users to easily find dishes based on their preferences or needs. Each recipe includes ingredients, preparation steps, cooking time, and images for better understanding.

The main goal of this project is to enhance the cooking experience by providing an interactive and visually attractive interface. It also aims to improve web development skills by applying the core principles of frontend technologies. This Recipe Book not only helps users discover new dishes but also promotes healthy eating habits and cultural exploration through food.

CHAPTER 2

SYSTEM ANALYSIS

Existing System

In the current scenario, several digital platforms and mobile applications already exist that provide access to a wide variety of recipes. Popular websites like AllRecipes, Tasty, Yummly, and Food Network offer extensive databases of cooking instructions, videos, user reviews, and personalized suggestions. These platforms are rich in features and serve millions of users worldwide.

However, these existing systems have some limitations:

- Too Complex for Beginners: Many platforms include too much information, ads, or premium content, which may confuse or distract beginners.
- Internet Dependency: Most of them require a constant internet connection and may not offer offline access.
- Limited Customization: Users cannot easily add their own recipes or modify the interface to suit their personal needs in many existing applications.
- Overwhelming UI: Some platforms have cluttered interfaces with too many options, which may reduce user experience, especially for simple users who only want quick recipes.

Despite being resource-rich, these existing systems are often built for commercial use rather than educational or academic purposes. As a result, there is a need for a simple, customizable, and easy-to-use web-based recipe book that focuses on learning and user experience—especially for students and aspiring web developers.

Proposed System

The proposed system is a web-based Recipe Food Book developed using HTML, CSS, and JavaScript. It is designed to overcome the limitations of the existing systems by offering a simple, clean, and interactive platform where users can easily browse, search, and view recipes.

The key idea of the proposed system is to create a lightweight and user friendly recipe website that focuses on the core features needed by students, beginners, and cooking enthusiasts. The system is ideal for use both as a learning tool and a basic digital cookbook.

Key Features of the Proposed System:

- **Responsive Design:** The website will be mobile-friendly and accessible on all devices (laptop, tablet, smartphone).
- **Recipe Categorization:** Recipes will be organized by categories such as meal type (breakfast, lunch, dinner), cuisine, or difficulty.
- **Search Functionality:** Users can quickly search for recipes using keywords.
- **Recipe Details Page:** Each recipe includes ingredients, cooking steps, time required, and images.
- **User Interface (UI):** A clean, modern, and clutter-free design to enhance usability.
- **Customization (*Optional Enhancement*):** Admin or user can add their own recipes (using a form with local storage or backend integration if extended).
- **Offline Access (*Optional*):** Recipes can be viewed without an active internet connection using browser caching.

Objectives:

- Provide an intuitive digital cookbook for users of all skill levels.
- Encourage cooking and healthy eating through an easy-to-navigate interface.
- Improve web development skills by applying frontend technologies effectively. Offer a simplified alternative to complex, ad-heavy platforms.

The proposed system is suitable for educational mini projects, portfolio websites, or even as the base for a more advanced food-related application in the future.

CHAPTER 3

H/W & S/W REQUIREMENTS

H/W Requirements

-
- System : Pentium IV 3.5 GHz /Above.
- Hard Disk : 120 GB.
- Ram : 1 GB.

S/W Requirements

- Operating system : Windows XP or Windows 7, Windows 8.
- Coding Language : HTML,CSS,JAVASCRIPT

IDE : VisualStudio Code

CHAPTER 4

SOURCE CODE

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8"/>
  <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
  <title>My Recipe Book</title>
  <style>
    * { box-sizing: border-box; }
    body {
      margin: 0;
      font-family: "Segoe UI", Roboto, Helvetica, Arial, sans-serif;
      background: #fdfdfd;
      color: #333;
      transition: background 0.3s, color 0.3s;
    }
    body.dark-mode {
      background: #181818;
      color: #f0f0f0;
    }
    header {
      background: linear-gradient(90deg, #ff884d, #ffb973);
      color: #fff;
      padding: 1rem 2rem;
      display: flex;
      justify-content: space-between;
      align-items: center;
    }
    header h1 { margin:0; font-size:1.6rem; }
    nav a, .theme-toggle {
      color: #fff;
      margin-left:1rem;
      text-decoration:none;
      font-weight:500;
      cursor:pointer;
    }
    .theme-toggle {
      background:#fff;
      color:#ff884d;
      padding:0.4rem 1rem;
      border:none;
      border-radius:6px;
    }
    .dark-mode .theme-toggle { background:#333; color:#ff884d; }
    main { max-width:1000px; margin:2rem auto; padding:0 1rem; }
```

```

.tabs {
  display:flex; gap:1rem; margin-bottom:1.5rem;
  flex-wrap:wrap;
}
.tab {
  padding:0.6rem 1.2rem;
  border:none; border-radius:8px;
  background:#e0e0e0; color:#333;
  cursor:pointer; font-weight:600;
  transition: background 0.2s;
}
.tab.active { background:#ff884d; color:white; }
.filters {
  display:flex; flex-wrap:wrap;
  gap:1rem; margin-bottom:1.5rem;
  align-items:center;
}
.filters select, .filters label {
  font-size:0.9rem;
}
.recipe-grid {
  display:grid; grid-template-columns:repeat(auto-fit, minmax(250px,1fr));
  gap:1.5rem;
}
.recipe-card {
  background:#fff; border-radius:12px;
  box-shadow:0 4px 12px rgba(0,0,0,0.05);
  overflow:hidden; position:relative;
  cursor:pointer; transition:transform 0.2s, box-shadow 0.2s;
}
.recipe-card:hover {
  transform:translateY(-4px);
  box-shadow:0 6px 20px rgba(0,0,0,0.1);
}
.recipe-card img { width:100%; height:160px; object-fit:cover; }
.recipe-card h3 {
  margin:0; padding:1rem; font-size:1.2rem;
}
.favorite-btn {
  position:absolute; top:10px; right:10px;
  background:rgba(255,255,255,0.9);
  border:none; padding:0.4rem;
  border-radius:8px;
  font-size:1.1rem; color:#ff884d;
  cursor:pointer;
}
.modal, .fav-modal {
  position:fixed; top:0;left:0;
}

```

```

width:100%;height:100%;
background:rgba(0,0,0,0.6);
display:none; align-items:center;
justify-content:center; z-index:1000;
}
.modal-content, .fav-content {
background:#fff; color:#333;
border-radius:16px; max-width:600px;
width:90%; max-height:90vh;
padding:2rem; overflow-y:auto;
position:relative;
box-shadow:0 8px 24px rgba(0,0,0,0.15);
}
.dark-mode .modal-content, .dark-mode .fav-content {
background:#2a2a2a; color:#eee;
}
.close-btn, .back-btn {
position:absolute; top:12px;
background:none; border:none;
font-size:1.5rem; color:#ff884d;
cursor:pointer;
}
.close-btn { right:12px; }
.back-btn { left:12px; }
button.review-btn {
margin-top:1.5rem;
padding:0.75rem 1.5rem;
border:none; border-radius:8px;
background:#ff884d; color:white;
cursor:pointer; font-size:1rem;
}
.review-list { list-style:none; padding:0; margin-top:1rem; }
.review-list li {
background:#fafafa; border-radius:8px;
border:1px solid #eee;
padding:0.75rem; margin-bottom:0.75rem;
}
.recently-viewed { margin-top:3rem; }
.badge {
background:#ff884d; color:white;
padding:0.25rem 0.75rem;
border-radius:50px;
font-size:0.75rem;
display:inline-block;
margin-bottom:1rem;
}
body.dark-mode .recipe-card { background:#2a2a2a; }
body.dark-mode .recipe-card h3 { color:#eee; }

```

```

@media (max-width: 768px) {
  header {
    flex-direction: column;
    align-items: flex-start;
    padding: 1rem;
  }
  nav {
    margin-top: 0.5rem;
    width: 100%;
    display: flex;
    flex-wrap: wrap;
    gap: 1rem;
  }
  .tabs {
    flex-direction: column;
    gap: 0.5rem;
  }
  .filters {
    flex-direction: column;
    align-items: stretch;
  }
  .filters label, .filters input {
    width: 100%;
  }
  .recipe-card h3 {
    font-size: 1rem;
  }
  .modal-content, .fav-content {
    padding: 1rem;
    font-size: 0.95rem;
  }
  .modal-content h2, .fav-content h2 {
    font-size: 1.4rem;
  }
  .theme-toggle {
    padding: 0.4rem 0.8rem;
    font-size: 0.9rem;
  }
}

```

</style>

</head>

<body>

```

<header>
  <h1>My Recipe Book</h1>
  <nav>
    <a id="favLink">Favorites</a>

```

```

        <button class="theme-toggle" onclick="toggleTheme()">Toggle Theme</button>
    </nav>
</header>

<main>
    <div class="tabs">
        <button class="tab active" onclick="switchTab('all')">All Recipes</button>
        <button class="tab" onclick="switchTab('veg')">Vegetarian</button>
        <button class="tab" onclick="switchTab('dessert')">Desserts</button>
    </div>

    <div class="filters">
        <label>Time:</label>
        <select id="timeFilter" onchange="applyFilters()">
            <option value="all">All</option>
            <option value="15">Under 15 mins</option>
            <option value="30">Under 30 mins</option>
        </select>
        <label>Difficulty:</label>
        <select id="diffFilter" onchange="applyFilters()">
            <option value="all">All</option>
            <option value="easy">Easy</option>
            <option value="medium">Medium</option>
            <option value="hard">Hard</option>
        </select>
        <label>Ingredient:</label>
        <select id="ingFilter" onchange="applyFilters()">
            <option value="all">Any</option>
            <option value="Cheese">Cheese</option>
            <option value="Chicken">Chicken</option>
            <option value="Eggs">Eggs</option>
        </select>
        <input type="text" id="searchInput" placeholder="Search..." oninput="applyFilters()"
style="flex:1; padding:0.6rem 1rem; border-radius:8px; border:1px solid #ccc;">
    </div>

    <div class="recipe-grid" id="recipeGrid"></div>

    <section class="recently-viewed" id="recentSection" style="display:none;">
        <span class="badge">Recently Viewed</span>
        <div class="recipe-grid" id="recentGrid"></div>
    </section>
</main>

<div class="modal" id="recipeModal">
```

```

<div class="modal-content" id="modalContent"></div>
</div>

<div class="fav-modal" id="favModal">
  <div class="fav-content" id="favContent">
    <button class="close-btn" onclick="closeFav()"></button>
    <h2>Your Favorites</h2>
    <div class="recipe-grid" id="favGrid"></div>
  </div>
</div>

<script>
  const recipes = [
    {
      name: "Pizza",
      image: "https://images.unsplash.com/photo-1513104890138-7c749659a591?w=1000&auto=format&fit=crop&q=60&ixlib=rb-4.1.0&ixid=M3wxMjA3fDB8MHxzZWfY2h8Mnx8cG16emF8ZW58MHx8MHx8fDA%3D",
      ingredients: ["Dough", "Tomato sauce", "Cheese", "Toppings"],
      procedure: ["Preheat oven", "Spread sauce", "Add toppings", "Bake", "Serve"],
      category: "veg",
      time: 30,
      difficulty: "medium"
    },
    {
      name: "Dosa",
      image: "https://images.unsplash.com/photo-1668236543090-82eba5ee5976?w=1000&auto=format&fit=crop&q=60&ixlib=rb-4.1.0&ixid=M3wxMjA3fDB8MHxzZWfY2h8Mnx8ZG9zYXxlbnwwfHwwfHx8MA%3D%3D",
      ingredients: ["Batter", "Oil", "Chutney", "Sambar"],
      procedure: ["Heat pan", "Pour batter", "Spread", "Cook golden", "Serve"],
      category: "veg",
      time: 15,
      difficulty: "easy"
    },
    {
      name: "Pasta",
      image: "https://images.unsplash.com/photo-1621996346565-e3dbc646d9a9?w=1000&auto=format&fit=crop&q=60&ixlib=rb-4.1.0&ixid=M3wxMjA3fDB8MHxzZWfY2h8NHx8cGFzdGF8ZW58MHx8MHx8fDA%3D",
      ingredients: ["Pasta", "Olive oil", "Garlic", "Tomato sauce", "Cheese"],
      procedure: ["Boil pasta", "Sauté garlic", "Add sauce", "Mix pasta", "Serve"],
      category: "veg",
      time: 25,
      difficulty: "medium"
    },
    {
      name: "Pancakes",
    }
  ]
</script>

```

```

        image: "https://images.unsplash.com/photo-1528207776546-
365bb710ee93?q=80&w=1170&auto=format&fit=crop&ixlib=rb-
4.1.0&ixid=M3wxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8fA%3D%3D",
        ingredients: ["Flour", "Eggs", "Milk", "Baking powder", "Sugar"],
        procedure: ["Mix ingredients", "Pour on pan", "Flip", "Cook evenly", "Serve"],
        category: "dessert",
        time: 20,
        difficulty: "easy"
    },
{
    name: "Biryani",
    image: "https://images.unsplash.com/photo-1701579231305-
d84d8af9a3fd?w=1000&auto=format&fit=crop&q=60&ixlib=rb-
4.1.0&ixid=M3wxMjA3fDB8MHxzZWfY2h8Mnx8YmlyeWFuaXxlbnwwfHwwfHx8MA%3D%3D",
    ingredients: ["Rice", "Chicken", "Spices", "Onion", "Yogurt"],
    procedure: ["Marinate chicken", "Cook rice", "Layer & cook", "Garnish", "Serve"],
    category: "non-veg",
    time: 45,
    difficulty: "hard"
},
{
    name: "Burger",
    image: "https://images.unsplash.com/photo-1550317138-
10000687a72b?auto=format&fit=crop&w=600&q=80",
    ingredients: ["Buns", "Patty", "Lettuce", "Cheese", "Tomato", "Sauce"],
    procedure: ["Grill patty", "Toast buns", "Layer ingredients", "Add sauce", "Serve"],
    category: "non-veg",
    time: 20,
    difficulty: "easy"
}
];
let favorites = [], currentTab="all", recentlyViewed=[];

const grid = document.getElementById("recipeGrid"),
recentGrid = document.getElementById("recentGrid"),
timeFilter = document.getElementById("timeFilter"),
diffFilter = document.getElementById("diffFilter"),
ingFilter = document.getElementById("ingFilter"),
favModal = document.getElementById("favModal"),
favGrid = document.getElementById("favGrid"),
modal = document.getElementById("recipeModal"),
modalContent = document.getElementById("modalContent"),
tabs = document.querySelectorAll(".tab");

function switchTab(tab) {
    currentTab = tab;

```

```

    tabs.forEach(t => t.classList.toggle("active",
t.textContent.toLowerCase().includes(tab)));
    applyFilters();
}

function applyFilters(){
    let temp = recipes.filter(r => {
        if (currentTab==="veg" && r.category!=="veg") return false;
        if (currentTab==="dessert" && r.category!=="dessert") return false;
        if (timeFilter.value!=="all" && r.time>parseInt(timeFilter.value)) return false;
        if (diffFilter.value!=="all" && r.difficulty!==diffFilter.value) return false;
        if (ingFilter.value!=="all" && !r.ingredients.includes(ingFilter.value)) return false;
        if (searchInput.value &&
!r.name.toLowerCase().includes(searchInput.value.toLowerCase())) return false;
        return true;
    });
    renderCards(temp);
}

function renderCards(list){
    grid.innerHTML="";
    list.forEach(r=>{
        const c = document.createElement("div");
        c.className="recipe-card";
        c.innerHTML =
            `
            <h3>${r.name}</h3>
            <button class="favorite-btn"
onclick="toggleFav(event, '${r.name}')">${favorites.includes(r.name)?'★':'☆'}</button>`;
        c.onclick = () => openModal(r);
        grid.appendChild(c);
    });
}

function toggleFav(e, name){
    e.stopPropagation();
    favorites = favorites.includes(name) ? favorites.filter(f=>f!==name) :
[...favorites,name];
    applyFilters();
}

function openModal(r){
    modalContent.innerHTML =
        `<button class="back-btn" onclick="modal.style.display='none'"><</button>
        <button class="close-btn" onclick="modal.style.display='none'">x</button>
        <h2>${r.name}</h2>
        
```

```

```

<h3>Ingredients</h3>${r.ingredients.map(i=>`${i}`).join("")}
<h3>Procedure</h3>${r.procedure.map(p=>`${p}`).join("")}
<button class="review-btn" onclick="leaveReview()">Leave a Review</button>
<ul class="review-list" id="reviewList">;
modal.style.display = 'flex';
if (!recentlyViewed.find(x=>x.name==r.name)){
 recentlyViewed.unshift(r);
 if (recentlyViewed.length>5) recentlyViewed.pop();
 renderRecent();
}
}

function renderRecent(){
 recentGrid.innerHTML="";
 recentlyViewed.forEach(r=>{
 const cc = document.createElement("div");
 cc.className="recipe-card";
 cc.innerHTML = `<h3>${r.name}</h3>`;
 cc.onclick = ()=>openModal(r);
 recentGrid.appendChild(cc);
 });
 document.getElementById("recentSection").style.display = recentlyViewed.length ? 'block' : 'none';
}

function leaveReview(){
 const name = prompt("Your Name:"), rev = prompt("Your Review:");
 if(name&&rev){
 document.getElementById("reviewList").innerHTML += `${name}: ${rev}`;
 }
}

function toggleTheme(){ document.body.classList.toggle("dark-mode"); }

document.getElementById("favLink").onclick = ()=>{
 favGrid.innerHTML = "";
 recipes.filter(r => favorites.includes(r.name)).forEach(r=>{
 const cf = document.createElement("div");
 cf.className="recipe-card";
 cf.innerHTML = `<h3>${r.name}</h3>`;
 cf.onclick = ()=>{ openModal(r); closeFav(); };
 favGrid.appendChild(cf);
 });
 favModal.style.display ='flex';
};

function closeFav(){ favModal.style.display='none'; }
window.addEventListener("click", e=>{

```

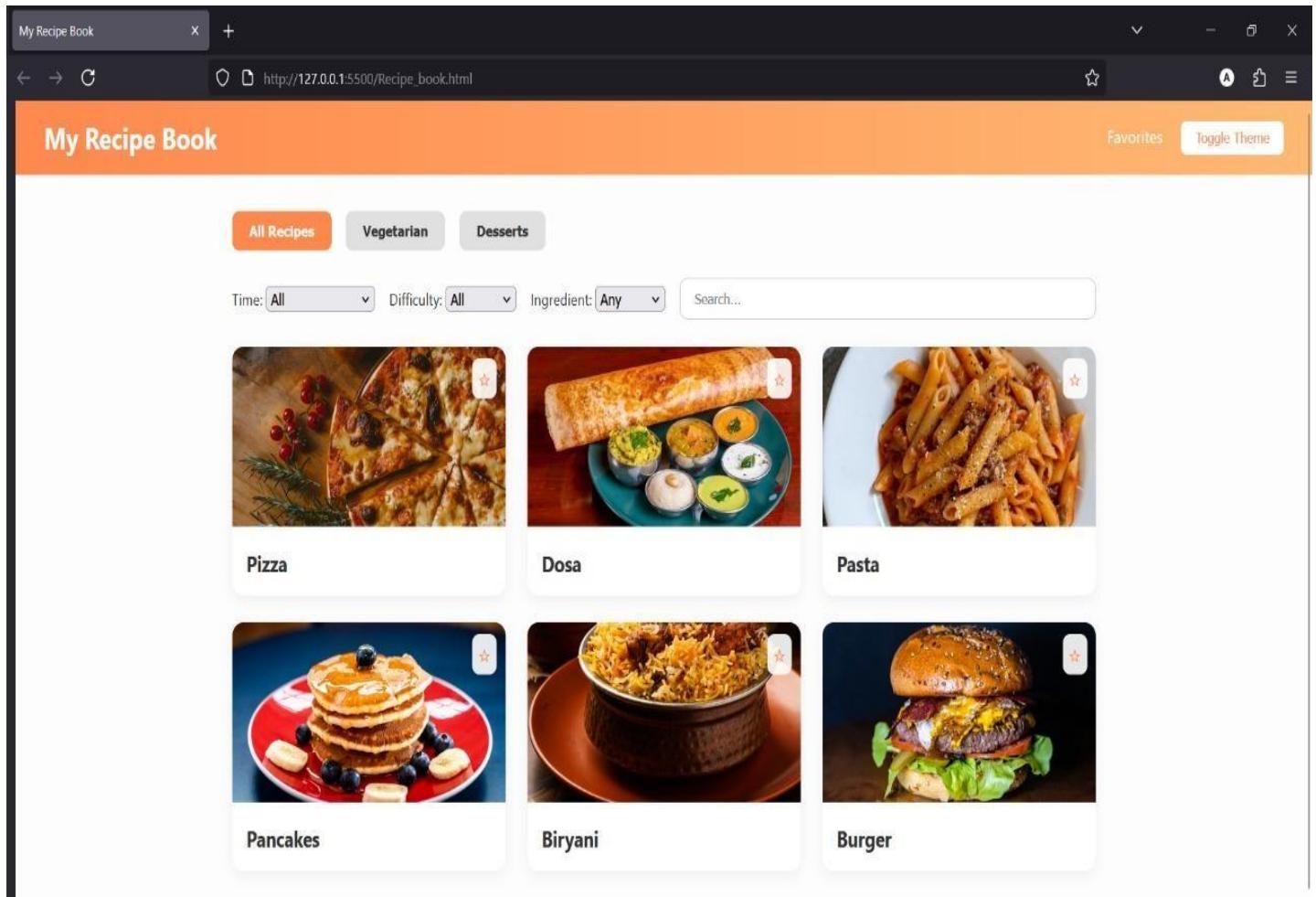
```
 if(e.target === modal) modal.style.display ='none';
 if(e.target === favModal) favModal.style.display='none';
 });

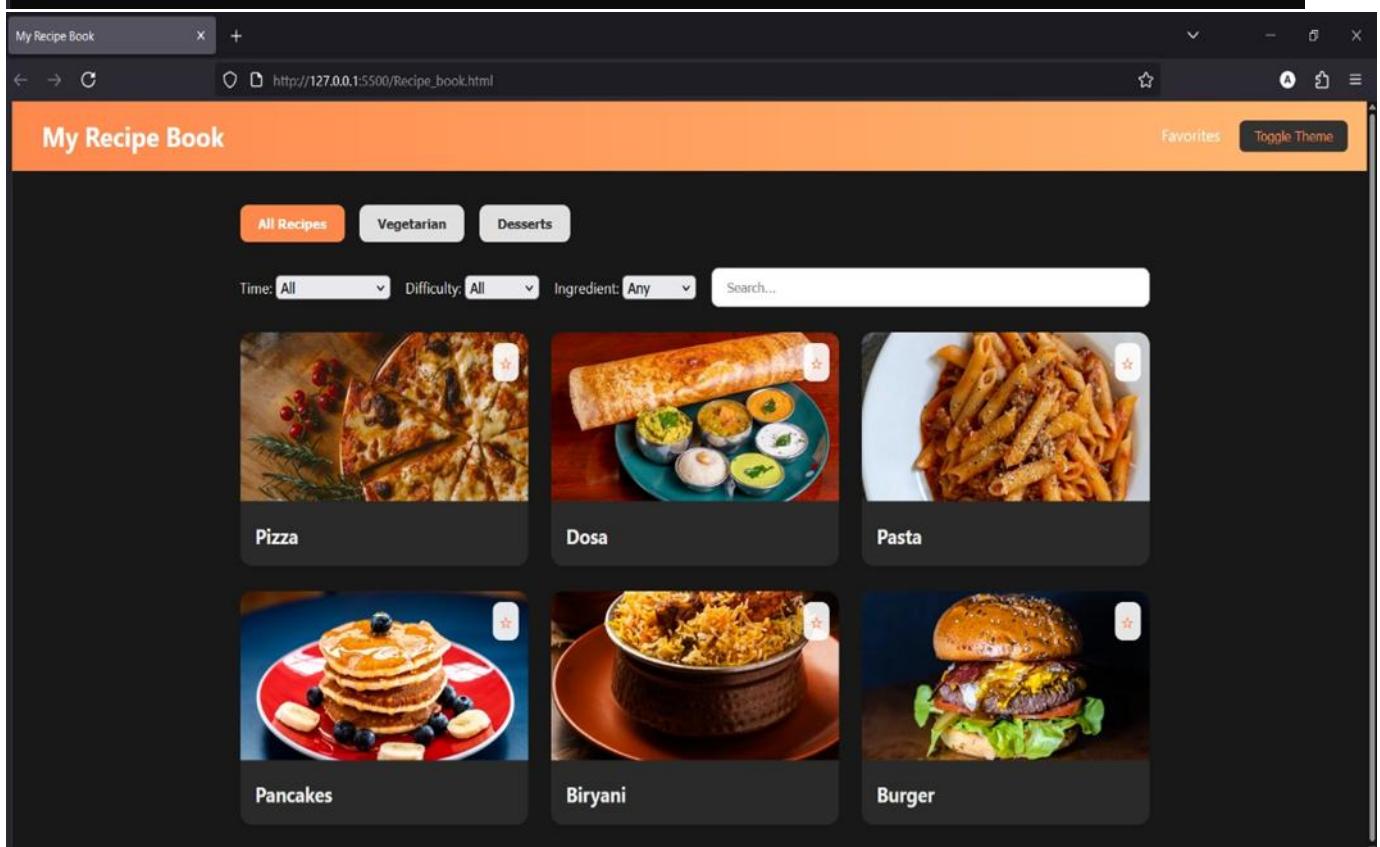
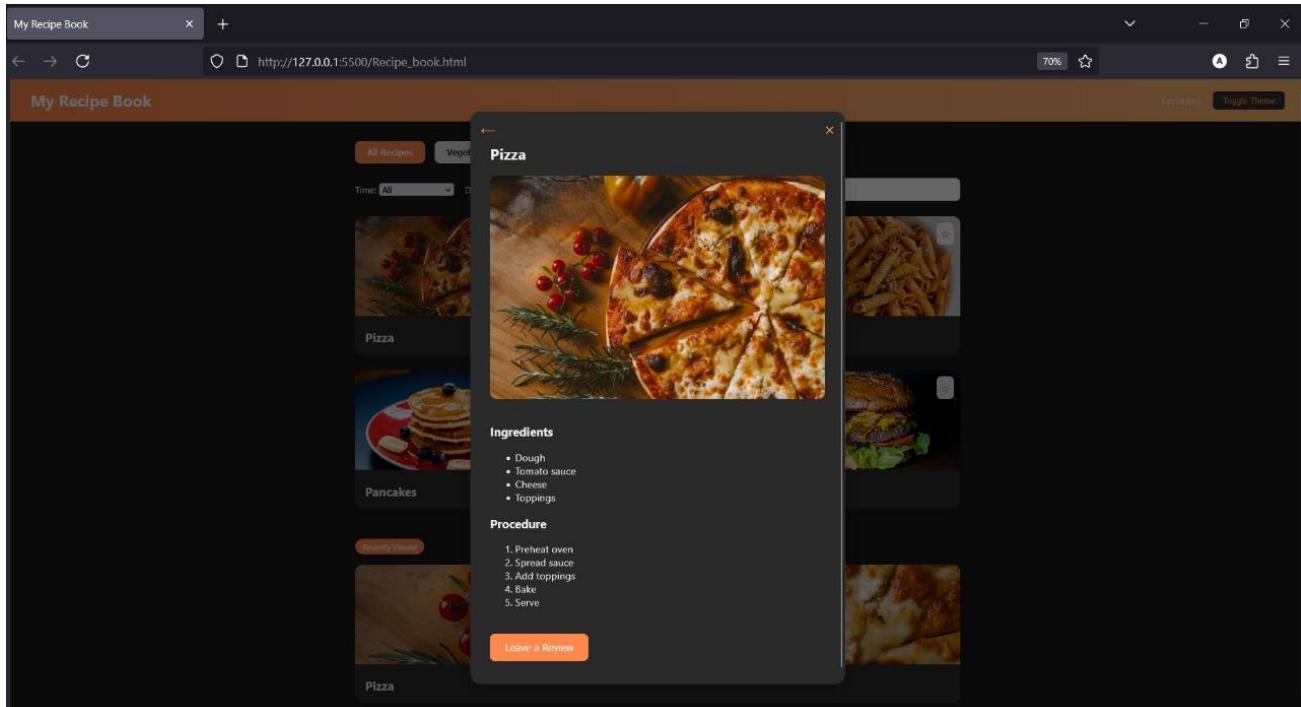
 applyFilters();
</script>

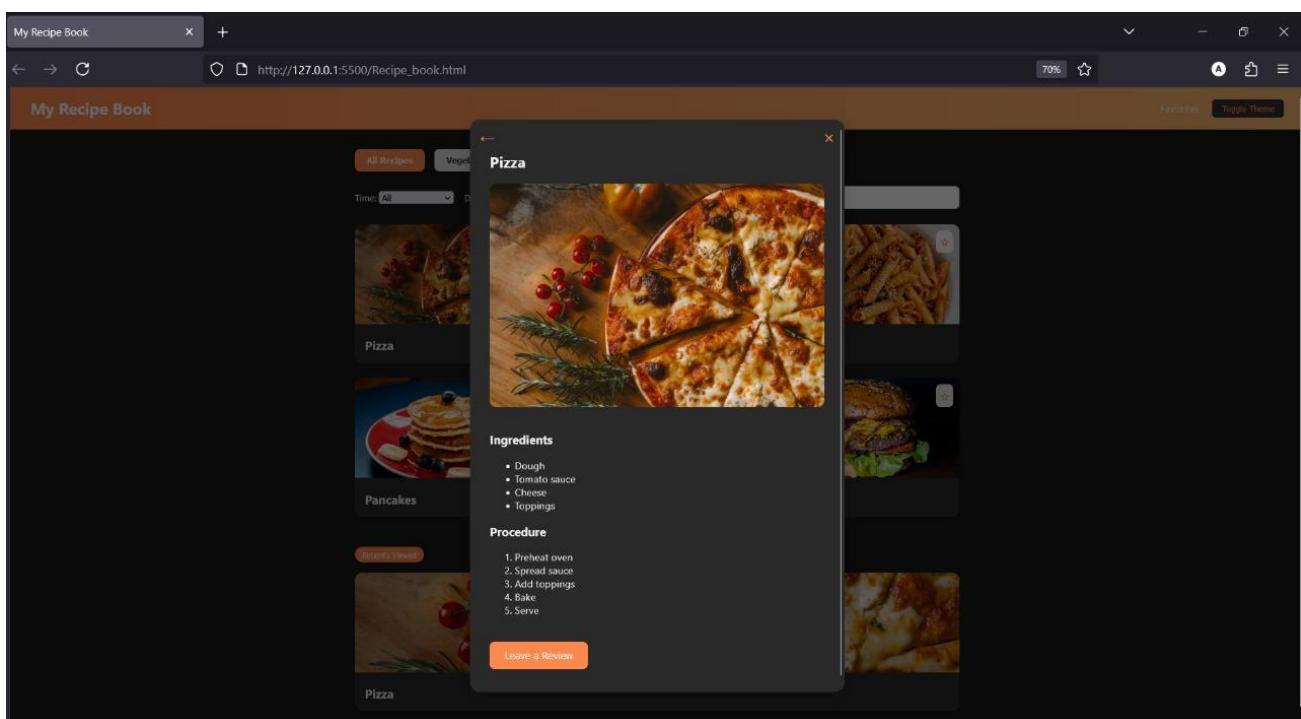
</body>
</html>
```

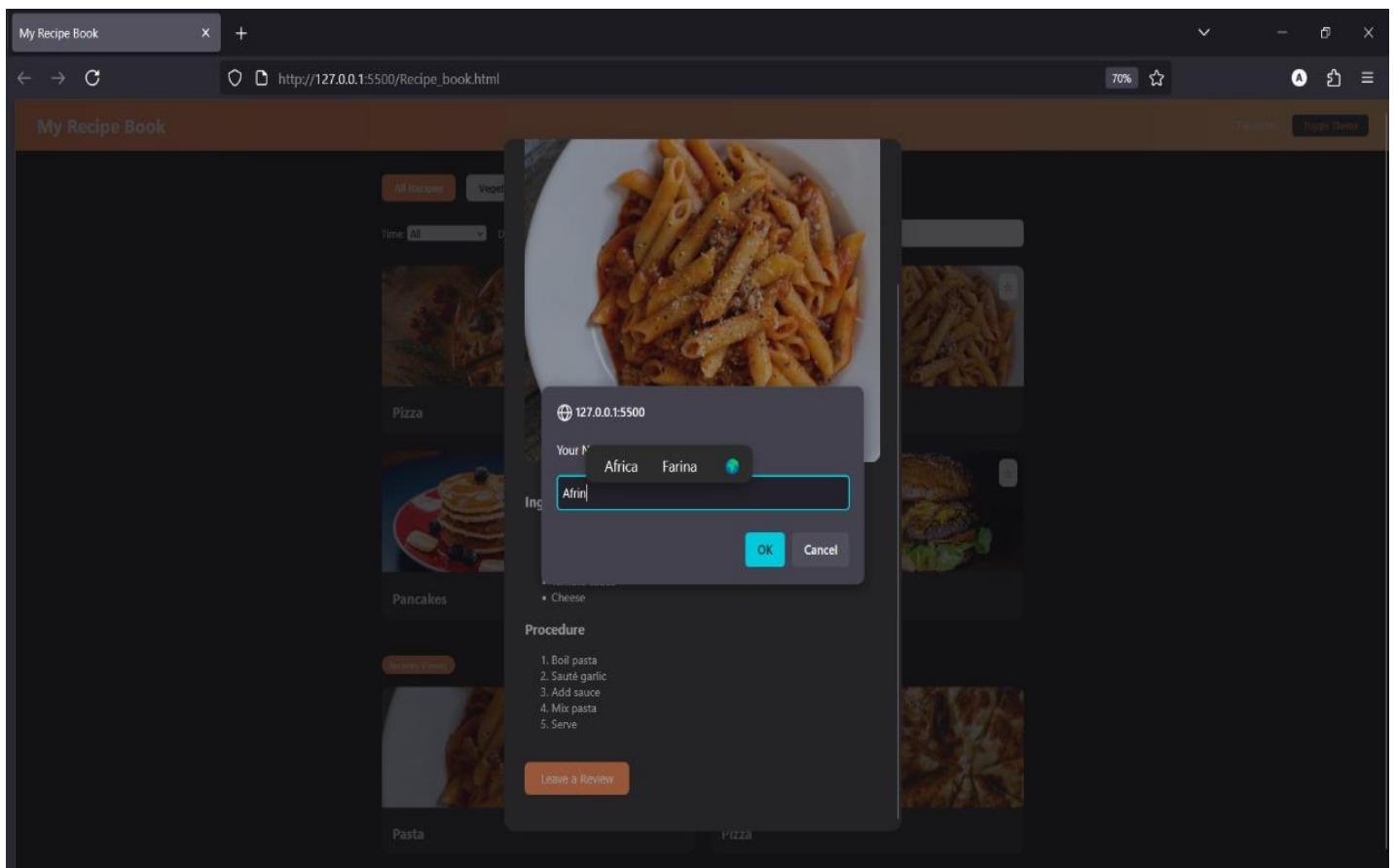
# CHAPTER 5

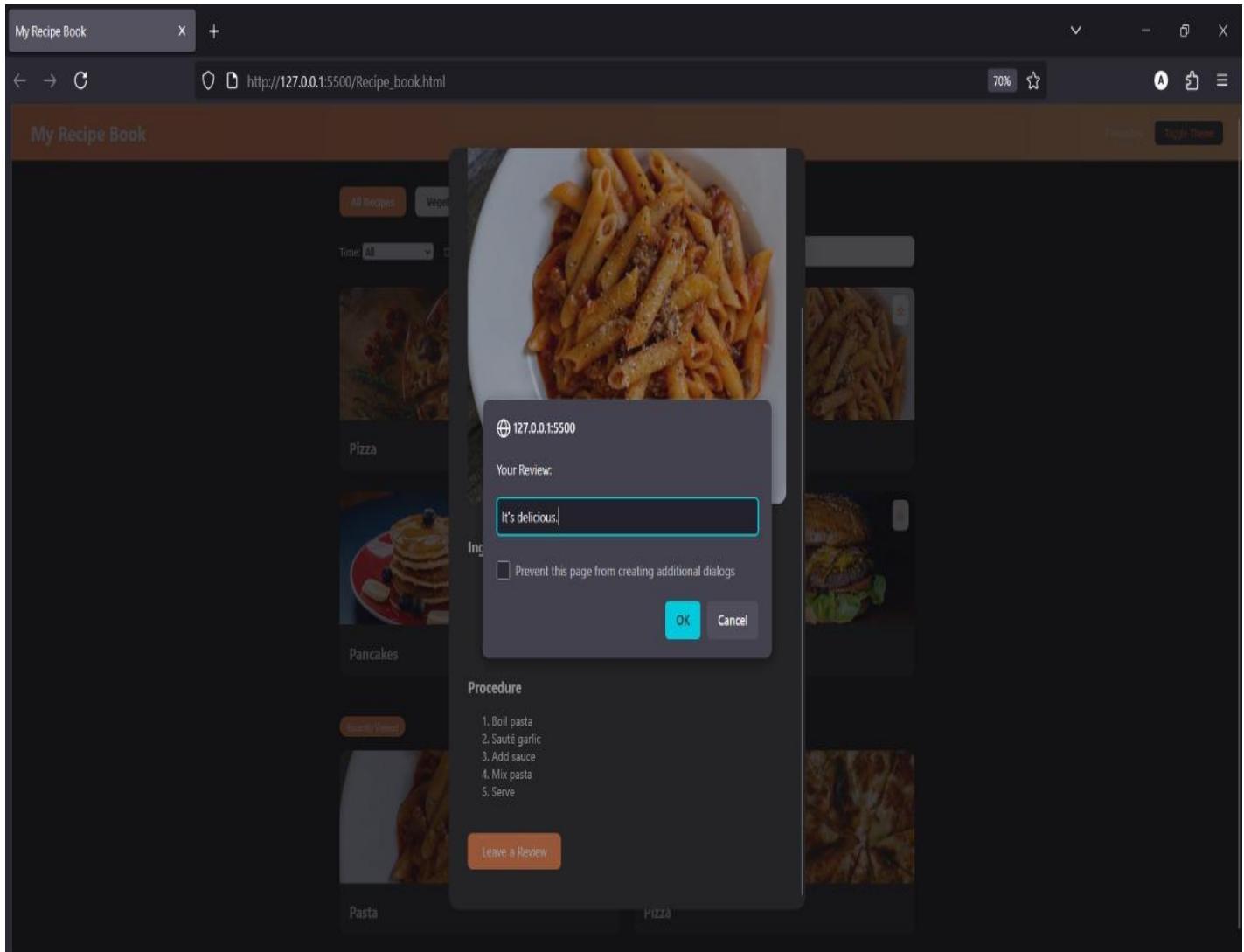
## SCREENS











My Recipe Book

http://127.0.0.1:5500/Recipe\_book.html

70% Favorites Toggle Theme

All Recipes Vegetarian Desserts

Time: All Difficulty: All Ingredient: Any Search...

Your Favorites

Pizza

Biryani Burger

Pancakes

Recently Viewed

Pasta Pizza

This image shows a screenshot of a web-based recipe book titled "My Recipe Book". The page has a dark theme with orange accents. At the top, there are navigation icons and a search bar. Below the header, there are buttons for "All Recipes", "Vegetarian", and "Desserts", along with dropdown menus for "Time", "Difficulty", and "Ingredient", and a search input field. A "Favorites" button and a "Toggle Theme" button are also present. A modal window titled "Your Favorites" is displayed in the center, showing images of "Biryani" and "Burger". To the left of the modal, there are images of "Pizza" and "Pancakes". Below the modal, there are images of "Pasta" and "Pizza". A "Recently Viewed" section is also visible.



WhatsApp Video  
2025-06-26 at 11.50.2

## **CHAPTER 6**

### **CONCLUSION**

The **Recipe Book** project successfully demonstrates the development of a simple, user-friendly, and visually appealing web application using **HTML, CSS, and JavaScript**. It provides an organized digital platform where users can easily browse and access various food recipes based on categories, ingredients, or preferences. Through this project, the goal of creating a lightweight and responsive cooking guide was achieved. The interface is intuitive, making it accessible to users of all ages, including beginners in both cooking and web development. This project also emphasizes healthy eating, cultural food diversity, and the convenience of having a recipe collection in one place.

From a technical perspective, this project helped enhance core web development skills, including front-end design, layout structuring, content management, and basic interactivity using JavaScript. It also lays the foundation for future improvements like recipe uploads, user login systems, or integration with backend technologies. In conclusion, the Recipe Book is a valuable tool for both cooking enthusiasts and students learning web development. It combines creativity with functionality and serves as a practical example of how web technologies can be used to build real-world applications.