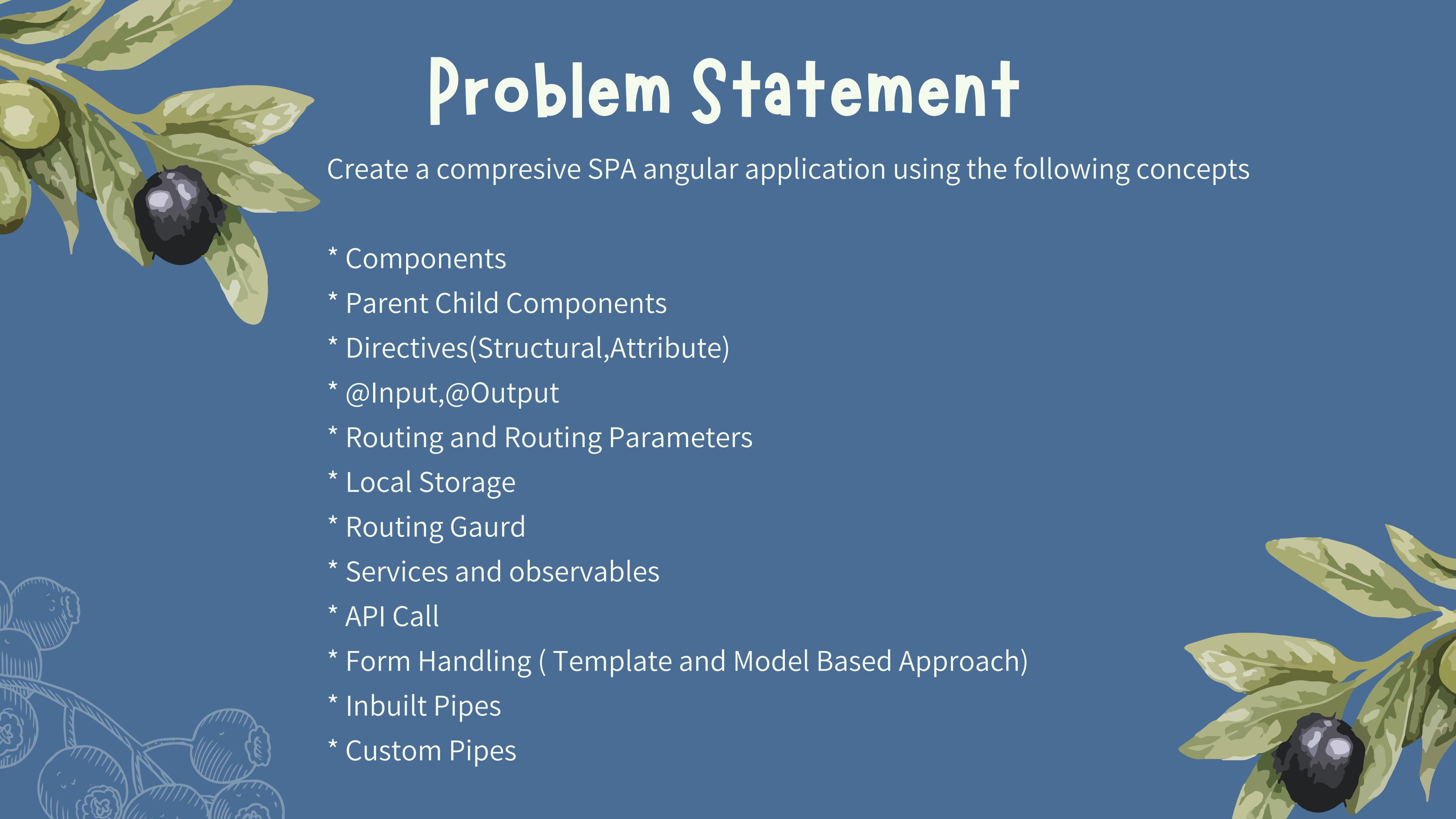


ANGULAR PROJECT

COOKCRAFT - RECIPE MANAGEMENT APPLICATION

By : VARSHINI P



Problem Statement

Create a compressive SPA angular application using the following concepts

- * Components
- * Parent Child Components
- * Directives(Structural,Attribute)
- * @Input,@Output
- * Routing and Routing Parameters
- * Local Storage
- * Routing Gaurd
- * Services and observables
- * API Call
- * Form Handling (Template and Model Based Approach)
- * Inbuilt Pipes
- * Custom Pipes

INTRODUCTION

- This project is a Single Page Application (SPA) built using Angular.
- It allows users to add, view, and manage recipes dynamically.
- The application follows best practices of Angular development with modular structure and reusable components.
- Key concepts used: Components, Services, Observables, Routing, Local Storage, Forms, and Pipes.

How CookCraft Works

Key Features & Functionality

- Adding a New Recipe
- Viewing Recipes
- Filtering Recipes
- Recipe Details Page
- Saving Favorite Recipes
- User Authentication & Routing Guards

ADDING A NEW RECIPE



Users can add new recipes by filling out a form that includes:

- ✓ Recipe Name
- ✓ Category
- ✓ Image Upload
- ✓ Cooking Time
- ✓ Ingredients & Instructions
- ✓ Servings

→ How It Works:

- The form uses Template-Driven Form Handling (`ngModel`) to bind input values.
- Recipe data is stored in `api.json`.
- Images can be uploaded and previewed before submission.

Viewing Recipes



Users can browse a list of available recipes.

→ How It Works:

- The recipe list is retrieved from local storage or API using Angular Services & Observables.
- Structural Directives (*ngFor) dynamically generate the list of recipes.
- Clicking on a recipe navigates to a detailed view using Angular Routing.
- Attribute Directives ([ngClass], [ngStyle]) are used to visually highlight favorite recipes or recently added ones.

Filtering Recipes

Users can filter recipes based on name or category to quickly find relevant dishes.



How It Works:

- Custom Pipe: A custom pipe (`recipeFilterPipe`) filters the list dynamically based on user input.
- Real-Time Updates: As the user types, the recipe list automatically updates to show matching results.
- Improved User Experience: Helps users quickly locate recipes without scrolling through the entire list.

Recipe Details Page



- ✓ Displays ingredients, instructions, cooking time & servings.
- ✓ Loads recipe dynamically using route parameters.
- ✓ Enables easy navigation with Angular Routing.

◆ Key Concepts Used:

- Angular Routing: Enables navigation between pages using URL parameters.
- Route Parameters (ActivatedRoute) – Retrieves the selected recipe's ID from the URL.
- Dynamic Data Binding: Updates the page content based on the selected recipe.

Saving Favorite Recipes

- ✓ Users can save recipes to revisit later.
- ✓ Favorites persist using api.json.
- ✓ Parent-child communication via @Input() & @Output().
- ◆ Key Concepts:
 - api.json – Stores and retrieves favorite recipes.
 - Component Interaction – Handles selection & updates dynamically.

User Authentication & Routing Guards

- ✓ Planned Feature – Restrict access to add recipe page based on authentication.
- ✓ Routing Guards (CanActivate) – Ensures only authorized users can add recipes.
 - ◆ Key Concepts:
 - Route Protection – Prevents unauthorized access.
 - Guarding – Only logged-In users can access/use the add recipe page.

Used Features in CookCraft

- ✓ Dynamic Filtering – Implemented using custom pipes to refine recipe searches efficiently.
- ✓ Component-Based Architecture – Utilized parent-child communication with @Input and @Output.
- ✓ Routing & Navigation – Integrated Angular Router for seamless page transitions.
- ✓ API Calls & Data Handling – Fetched and managed recipe data dynamically.
- ✓ State Management – Used Local Storage to retain user data and favorites.
- ✓ Form Handling – Implemented Template-Driven Forms for adding new recipes.
- ✓ Routing Guards – Ensured restricted access to specific pages.
- ✓ Services & Observables – Used services for centralized data handling and observables for real-time updates.

Screenshots

localhost:4200/home

CookCraft

Home Recipes Favorites Login



The home page features a large banner with a chef's hat icon and the text "CookCraft ELEGANT & MODISM". Below the banner, there's a call-to-action section with the text "Have a delicious recipe? Share it with the world!" and a "Add Recipe" button.

Have a delicious recipe?
Share it with the world!

Add Recipe

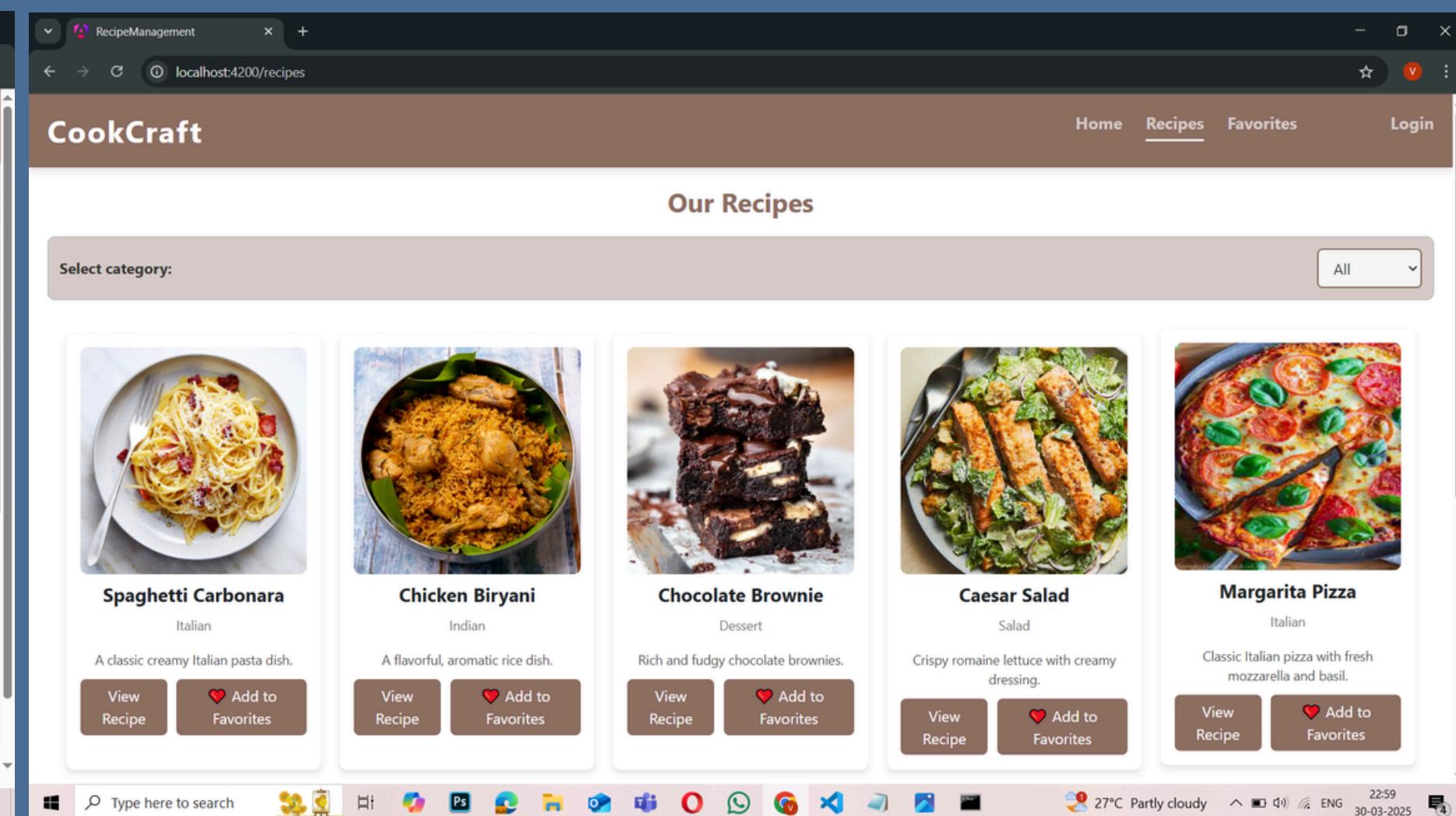
localhost:4200/recipes

CookCraft

Home Recipes Favorites Login

Our Recipes

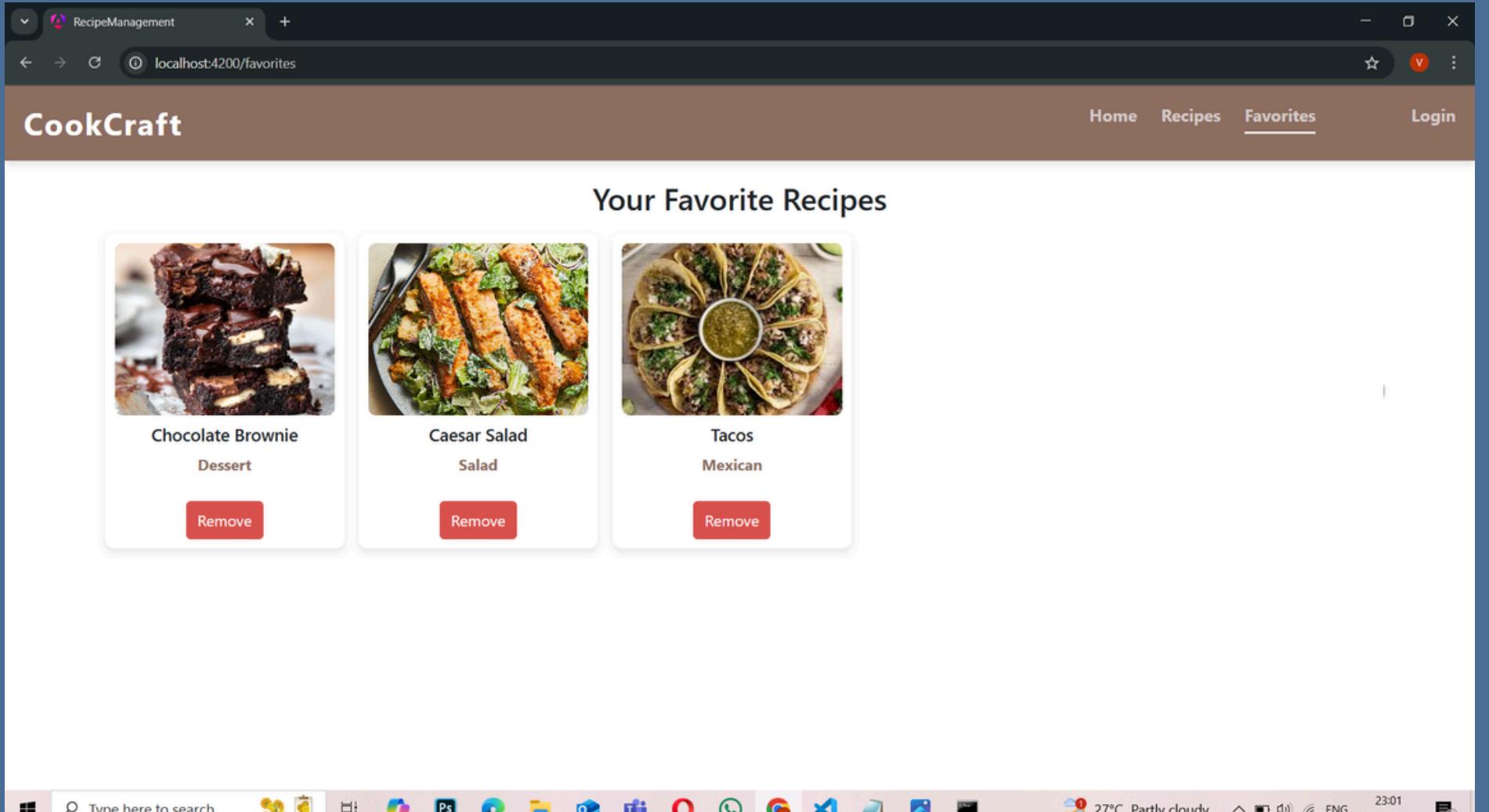
Select category: All



The recipes page displays five recipe cards with images, names, categories, descriptions, and "View Recipe" and "Add to Favorites" buttons.

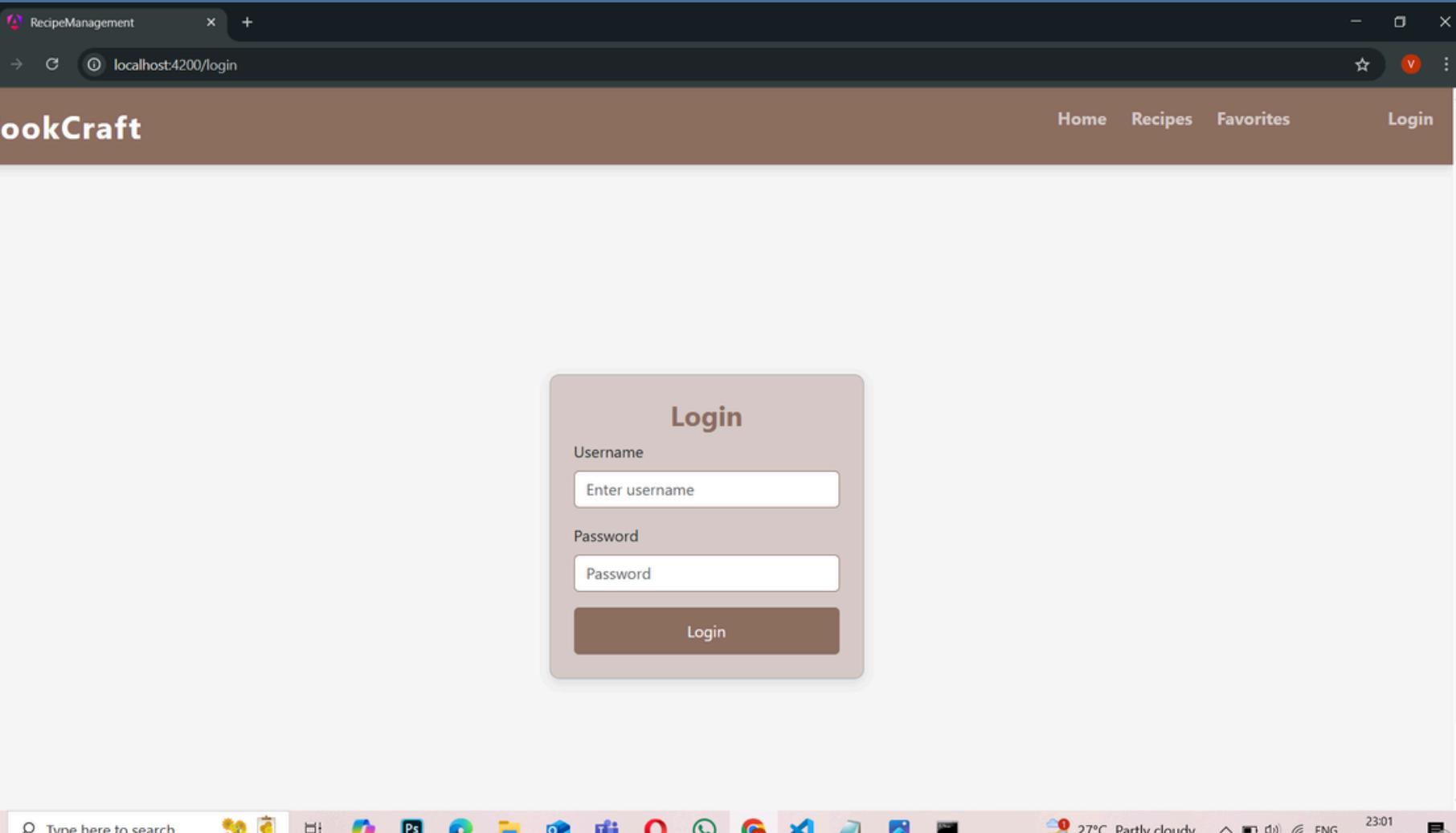
Image	Name	Category	Description	Action Buttons
	Spaghetti Carbonara	Italian	A classic creamy Italian pasta dish.	View Recipe Add to Favorites
	Chicken Biryani	Indian	A flavorful, aromatic rice dish.	View Recipe Add to Favorites
	Chocolate Brownie	Dessert	Rich and fudgy chocolate brownies.	View Recipe Add to Favorites
	Caesar Salad	Salad	Crispy romaine lettuce with creamy dressing.	View Recipe Add to Favorites
	Margarita Pizza	Italian	Classic Italian pizza with fresh mozzarella and basil.	View Recipe Add to Favorites

Screenshots



The screenshot shows the 'Favorites' section of the CookCraft application. The title 'Your Favorite Recipes' is centered above three recipe cards. Each card displays a thumbnail image, the recipe name, its category, and a 'Remove' button.

Image	Recipe Name	Category	Action
	Chocolate Brownie	Dessert	<button>Remove</button>
	Caesar Salad	Salad	<button>Remove</button>
	Tacos	Mexican	<button>Remove</button>



The screenshot shows the login interface for the CookCraft application. It features a central 'Login' form with fields for 'Username' and 'Password', and a 'Login' button. The background of the page is white.

Login

Username

Password

Login

Screenshots

A screenshot of a web browser window titled "RecipeManagement" showing the "Add New Recipe" form for the "CookCraft" application. The form includes fields for Recipe Name (Avocado Toast), Category (Breakfast), Upload Image (Choose File: avacado.jpg), Recipe Image (Thumbnail preview of the uploaded image), Short Description (A healthy and delicious avocado toast topped with seasonings.), Cooking Time (10 minutes), and Ingredients (comma-separated) (2 slices whole wheat bread, 1 ripe avocado, 1/2 tsp lemon juice, 1/4 tsp salt). The browser's address bar shows "localhost:4200/add-recipe". The operating system taskbar at the bottom displays various icons and system status.

A screenshot of a web browser window titled "RecipeManagement" showing the "CookCraft" home page. A modal dialog box is displayed, stating "localhost:4200 says You must be logged in to access this page!" with an "OK" button. The main page features a large "CookCraft" logo and the tagline "ELEGANT & MODIMRISM". Below the logo is a call-to-action: "Have a delicious recipe? Share it with the world! Add Recipe". The browser's address bar shows "localhost:4200/home". The operating system taskbar at the bottom displays various icons and system status.



THANK YOU