Practice Exercise: Recipe Collection App

Objective

Develop an Angular application that displays recipes and allows users to add or edit recipes. The application will handle data in Angular components, manage arrays, process events, and utilize forms.

Requirements

- Define a Recipe Interface with properties including title, ingredients, prepTime, isFavorite, and difficulty.

- Initial setup of sample recipes in a component.

- Display and style recipes using Angular directives and CSS.

- Implement recipe interactions for marking as favorite and removing recipes.

- Include forms for adding and editing recipes.

- Implement a filter feature to search recipes by title.

- Provide options for editing recipes using a pre-filled form.

Detailed Steps

Define the Recipe Interface

```
interface Recipe {
    title: string;
    ingredients: string[];
    prepTime: number;
    isFavorite: boolean;
    difficulty: 'MEDIUM' | 'HIGH' | 'LOW';
}
```

Initial Setup

Initialize an array of sample recipes in the component. Use the `*ngFor` directive to display each recipe.

Display and Style Recipes

Implement conditional display of buttons and apply CSS classes based on the recipe properties.

Recipe Interaction

Code functions such as `markAsFavorite` and `removeRecipe` to handle user interactions.

Recipe Form for Adding and Editing

Include form elements for input fields, radio buttons for selecting difficulty, and a submission button.

Filter and Edit Features

Add a filter input field and provide an edit option using the same form for adding recipes.

Component Structure

- **recipe-item component:** Displays a single recipe, accepts an input recipe object, and emits events.

- **recipe-form component:** Used for adding and editing recipes, emits a save event with the recipe data.

Styling Guide

- Font-family: Open Sans

- Font-weight: 300

- Body Background: Linear gradient from peach to light orange

- Box-shadow: 0px 0px 5px 0px rgba(0,0,0,0.75)

- Colors:

    - Favorite button text and border: Orange
    - Submit button and input borders: #eee
    - Submit button background: Coral
    - Submit button text: White
    - Other text is black
    - Box background is white