



## dessert

≡ 9 ingredients

2 1/4 cups flour, 1 cup butter, softened, 3/4 cup brown sugar...

 Delete



CATEGORY  
**breakfast**

### Ingredients

Classic Pancakes

Category: Breakfast

Cooking Time (minutes): 20

Difficulty: Easy

Servings: 4

Image URL: <https://images.pexels.com/photos/376464/pexels-photo-376464.jpeg>

Ingredients (one per line):

- 2 cups all-purpose flour
- 2 tablespoons sugar
- 2 teaspoons baking powder
- 1 teaspoon salt
- 2 large eggs
- 1 3/4 cups milk
- 1/4 cup melted butter

Instructions:

Ingredients (one per line):

- 1 teaspoon salt
- 2 large eggs
- 1 3/4 cups milk
- 1/4 cup melted butter

**Instructions**

1. Mix dry ingredients in a large bowl
2. Whisk eggs, milk, and melted butter in another bowl
3. Combine wet and dry ingredients until just mixed
4. Heat griddle or pan over medium heat
5. Pour 1/4 cup batter for each pancake
6. Cook until bubbles form, flip and cook until golden

//HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
initial-scale=1.0">
  <title>Recipe Cards Collection</title>
```

```

<link rel="stylesheet" href="style.css">
<link
href="https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;500;600;700&display=swap" rel="stylesheet">
<link
href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.4.0/css/all.min.css" rel="stylesheet">
</head>
<body>
  <div class="container">
    <!-- Header -->
    <header class="header">
      <div class="header-content">
        <h1><i class="fas fa-utensils"></i> Recipe
Collection</h1>
        <div class="search-container">
          <input type="text" id="searchInput"
placeholder="Search recipes..." class="search-input">
          <i class="fas fa-search search-icon"></i>
        </div>
        <button class="add-recipe-btn"
id="addRecipeBtn">
          <i class="fas fa-plus"></i> Add Recipe
        </button>
      </div>
    </header>

    <!-- Filter Tabs -->
    <div class="filter-tabs">
      <button class="tab-btn active"
data-category="all">All Recipes</button>
      <button class="tab-btn"
data-category="breakfast">Breakfast</button>
      <button class="tab-btn"
data-category="lunch">Lunch</button>
      <button class="tab-btn"
data-category="dinner">Dinner</button>

```

```

        <button class="tab-btn"
data-category="dessert">Dessert</button>
    </div>

    <!-- Recipe Cards Grid -->
    <div class="recipes-grid" id="recipesGrid">
        <!-- Recipe cards will be dynamically generated -->
    </div>

    <!-- Recipe Modal -->
    <div class="modal" id="recipeModal">
        <div class="modal-content">
            <span class="close-btn"
id="closeModal">&times;</span>
            <form id="recipeForm">
                <h2 id="modalTitle">Add New Recipe</h2>

                <div class="form-group">
                    <label for="recipeName">Recipe
Name</label>
                    <input type="text" id="recipeName"
required>
                </div>

                <div class="form-row">
                    <div class="form-group">
                        <label
for="recipeCategory">Category</label>
                        <select id="recipeCategory"
required>
                            <option value="">Select
Category</option>
                            <option
value="breakfast">Breakfast</option>
                            <option
value="lunch">Lunch</option>

```

```

                                <option
value="dinner">Dinner</option>
                                <option
value="dessert">Dessert</option>
                                </select>
                            </div>
                            <div class="form-group">
                                <label for="cookingTime">Cooking
Time (minutes)</label>
                                <input type="number"
id="cookingTime" required>
                            </div>
                        </div>

                        <div class="form-row">
                            <div class="form-group">
                                <label
for="difficulty">Difficulty</label>
                                <select id="difficulty" required>
                                    <option value="">Select
Difficulty</option>
                                    <option
value="easy">Easy</option>
                                    <option
value="medium">Medium</option>
                                    <option
value="hard">Hard</option>
                                </select>
                            </div>
                            <div class="form-group">
                                <label
for="servings">Servings</label>
                                <input type="number" id="servings"
required>
                            </div>
                        </div>

```

```

        <div class="form-group">
            <label for="imageUrl">Image URL</label>
            <input type="url" id="imageUrl"
placeholder="https://example.com/image.jpg">
        </div>

        <div class="form-group">
            <label for="ingredients">Ingredients
(one per line)</label>
            <textarea id="ingredients" rows="4"
required placeholder="2 cups flour&#10;1 cup sugar&#10;3
eggs"></textarea>
        </div>

        <div class="form-group">
            <label
for="instructions">Instructions</label>
            <textarea id="instructions" rows="6"
required placeholder="1. Preheat oven to 350°F&#10;2. Mix dry
ingredients..."></textarea>
        </div>

        <div class="form-actions">
            <button type="button"
id="cancelBtn">Cancel</button>
            <button type="submit">Save
Recipe</button>
        </div>
    </form>
</div>

<!-- Recipe Detail Modal -->
<div class="modal" id="recipeDetailModal">
    <div class="modal-content recipe-detail">
        <span class="close-btn"
id="closeDetailModal">&times;</span>

```

```

        <div id="recipeDetailContent">
            <!-- Recipe details will be dynamically
generated -->
        </div>
    </div>
</div>
</div>

<script src="script.js"></script>
</body>
</html>

```

## //css

```

* {
    margin: 0;
    padding: 0;
    box-sizing: border-box;
}

body {
    font-family: 'Poppins', sans-serif;
    background: linear-gradient(135deg, #667eea 0%, #764ba2
100%);
    min-height: 100vh;
    color: #333;
}

.container {
    max-width: 1400px;
    margin: 0 auto;
    padding: 0 20px;
}

/* Header Styles */

```

```
.header {  
  background: rgba(255, 255, 255, 0.95);  
  backdrop-filter: blur(10px);  
  padding: 1.5rem 0;  
  margin-bottom: 2rem;  
  border-radius: 20px;  
  margin-top: 2rem;  
  box-shadow: 0 10px 30px rgba(0, 0, 0, 0.1);  
}
```

```
.header-content {  
  display: flex;  
  justify-content: space-between;  
  align-items: center;  
  flex-wrap: wrap;  
  gap: 1rem;  
}
```

```
.header h1 {  
  color: #4f46e5;  
  font-size: 2rem;  
  font-weight: 700;  
  display: flex;  
  align-items: center;  
  gap: 0.5rem;  
}
```

```
.search-container {  
  position: relative;  
  flex: 1;  
  max-width: 400px;  
}
```

```
.search-input {  
  width: 100%;  
  padding: 0.75rem 1rem 0.75rem 3rem;  
  border: 2px solid #e5e7eb;
```



```
border-radius: 50px;
font-size: 1rem;
transition: all 0.3s ease;
}

.search-input:focus {
  outline: none;
  border-color: #4f46e5;
  box-shadow: 0 0 0 3px rgba(79, 70, 229, 0.1);
}

.search-icon {
  position: absolute;
  left: 1rem;
  top: 50%;
  transform: translateY(-50%);
  color: #6b7280;
}

.add-recipe-btn {
  background: linear-gradient(135deg, #4f46e5, #7c3aed);
  color: white;
  border: none;
  padding: 0.75rem 1.5rem;
  border-radius: 50px;
  font-weight: 600;
  cursor: pointer;
  display: flex;
  align-items: center;
  gap: 0.5rem;
  transition: all 0.3s ease;
}

.add-recipe-btn:hover {
  transform: translateY(-2px);
  box-shadow: 0 10px 25px rgba(79, 70, 229, 0.3);
}
```

```
/* Filter Tabs */
.filter-tabs {
  display: flex;
  justify-content: center;
  gap: 1rem;
  margin-bottom: 2rem;
  flex-wrap: wrap;
}

.tab-btn {
  padding: 0.75rem 1.5rem;
  border: none;
  background: rgba(255, 255, 255, 0.2);
  color: white;
  border-radius: 50px;
  font-weight: 500;
  cursor: pointer;
  transition: all 0.3s ease;
  backdrop-filter: blur(10px);
}

.tab-btn:hover,
.tab-btn.active {
  background: rgba(255, 255, 255, 0.9);
  color: #4f46e5;
  transform: translateY(-2px);
}

/* Recipe Grid */
.recipes-grid {
  display: grid;
  grid-template-columns: repeat(auto-fill, minmax(320px, 1fr));
  gap: 2rem;
  margin-bottom: 2rem;
}
```

```
/* Recipe Card */
.recipe-card {
  background: white;
  border-radius: 20px;
  overflow: hidden;
  box-shadow: 0 10px 30px rgba(0, 0, 0, 0.1);
  transition: all 0.4s ease;
  cursor: pointer;
  opacity: 0;
  transform: translateY(20px);
  animation: fadeInUp 0.6s ease forwards;
}

.recipe-card:hover {
  transform: translateY(-10px);
  box-shadow: 0 20px 40px rgba(0, 0, 0, 0.15);
}

.recipe-card.removing {
  animation: fadeOutDown 0.4s ease forwards;
}

@keyframes fadeInUp {
  to {
    opacity: 1;
    transform: translateY(0);
  }
}

@keyframes fadeOutDown {
  to {
    opacity: 0;
    transform: translateY(20px) scale(0.9);
  }
}
```

```
.recipe-image {
  width: 100%;
  height: 200px;
  object-fit: cover;
  transition: transform 0.4s ease;
}

.recipe-card:hover .recipe-image {
  transform: scale(1.05);
}

.recipe-content {
  padding: 1.5rem;
}

.recipe-header {
  display: flex;
  justify-content: space-between;
  align-items: flex-start;
  margin-bottom: 1rem;
}

.recipe-title {
  font-size: 1.25rem;
  font-weight: 600;
  color: #1f2937;
  margin-bottom: 0.5rem;
}

.recipe-category {
  background: linear-gradient(135deg, #4f46e5, #7c3aed);
  color: white;
  padding: 0.25rem 0.75rem;
  border-radius: 50px;
  font-size: 0.75rem;
  font-weight: 500;
}
```

```
.recipe-meta {  
  display: flex;  
  justify-content: space-between;  
  margin-bottom: 1rem;  
  font-size: 0.875rem;  
  color: #6b7280;  
}
```

```
.meta-item {  
  display: flex;  
  align-items: center;  
  gap: 0.25rem;  
}
```

```
.recipe-description {  
  color: #4b5563;  
  font-size: 0.875rem;  
  line-height: 1.5;  
  margin-bottom: 1rem;  
}
```

```
.recipe-actions {  
  display: flex;  
  gap: 0.5rem;  
}
```

```
.action-btn {  
  flex: 1;  
  padding: 0.5rem;  
  border: none;  
  border-radius: 8px;  
  cursor: pointer;  
  font-weight: 500;  
  transition: all 0.3s ease;  
}
```

```
.view-btn {
  background: #4f46e5;
  color: white;
}

.edit-btn {
  background: #f59e0b;
  color: white;
}

.delete-btn {
  background: #ef4444;
  color: white;
}

.action-btn:hover {
  transform: translateY(-1px);
  box-shadow: 0 4px 12px rgba(0, 0, 0, 0.15);
}

/* Difficulty Badge */
.difficulty {
  display: inline-block;
  padding: 0.25rem 0.75rem;
  border-radius: 50px;
  font-size: 0.75rem;
  font-weight: 500;
  text-transform: capitalize;
}

.difficulty.easy {
  background: #dcfce7;
  color: #166534;
}

.difficulty.medium {
  background: #fef3c7;
```

```
    color: #92400e;
}

.difficulty.hard {
    background: #fee2e2;
    color: #991b1b;
}

/* Modal Styles */
.modal {
    display: none;
    position: fixed;
    z-index: 1000;
    left: 0;
    top: 0;
    width: 100%;
    height: 100%;
    background: rgba(0, 0, 0, 0.5);
    backdrop-filter: blur(5px);
    opacity: 0;
    transition: opacity 0.3s ease;
}

.modal.show {
    display: flex;
    align-items: center;
    justify-content: center;
    opacity: 1;
}

.modal-content {
    background: white;
    padding: 2rem;
    border-radius: 20px;
    width: 90%;
    max-width: 600px;
    max-height: 90vh;
```

```
overflow-y: auto;
transform: scale(0.9);
transition: transform 0.3s ease;
position: relative;
}

.modal.show .modal-content {
  transform: scale(1);
}

.close-btn {
  position: absolute;
  top: 1rem;
  right: 1.5rem;
  font-size: 2rem;
  color: #6b7280;
  cursor: pointer;
  transition: color 0.3s ease;
}

.close-btn:hover {
  color: #ef4444;
}

/* Form Styles */
.form-group {
  margin-bottom: 1.5rem;
}

.form-row {
  display: grid;
  grid-template-columns: 1fr 1fr;
  gap: 1rem;
}

label {
  display: block;
```



```
margin-bottom: 0.5rem;
font-weight: 500;
color: #374151;
}

input,
select,
textarea {
  width: 100%;
  padding: 0.75rem;
  border: 2px solid #e5e7eb;
  border-radius: 8px;
  font-size: 1rem;
  transition: border-color 0.3s ease;
  font-family: inherit;
}

input:focus,
select:focus,
textarea:focus {
  outline: none;
  border-color: #4f46e5;
  box-shadow: 0 0 0 3px rgba(79, 70, 229, 0.1);
}

textarea {
  resize: vertical;
  min-height: 100px;
}

.form-actions {
  display: flex;
  gap: 1rem;
  justify-content: flex-end;
  margin-top: 2rem;
}
```

```
.form-actions button {
  padding: 0.75rem 1.5rem;
  border: none;
  border-radius: 8px;
  font-weight: 600;
  cursor: pointer;
  transition: all 0.3s ease;
}

.form-actions button[type="submit"] {
  background: #4f46e5;
  color: white;
}

.form-actions button[type="button"] {
  background: #6b7280;
  color: white;
}

.form-actions button:hover {
  transform: translateY(-1px);
  box-shadow: 0 4px 12px rgba(0, 0, 0, 0.15);
}

/* Recipe Detail Modal */
.recipe-detail {
  max-width: 800px;
}

.recipe-detail-header {
  text-align: center;
  margin-bottom: 2rem;
}

.recipe-detail-image {
  width: 100%;
  height: 300px;
}
```

```
    object-fit: cover;
    border-radius: 12px;
    margin-bottom: 1rem;
}

.recipe-detail-title {
    font-size: 2rem;
    font-weight: 700;
    color: #1f2937;
    margin-bottom: 1rem;
}

.recipe-detail-meta {
    display: flex;
    justify-content: center;
    gap: 2rem;
    margin-bottom: 2rem;
    flex-wrap: wrap;
}

.detail-meta-item {
    text-align: center;
}

.detail-meta-item .icon {
    font-size: 1.5rem;
    color: #4f46e5;
    margin-bottom: 0.5rem;
}

.detail-meta-item .label {
    font-size: 0.875rem;
    color: #6b7280;
    text-transform: uppercase;
    letter-spacing: 0.05em;
}
```

```
.detail-meta-item .value {
  font-weight: 600;
  color: #1f2937;
}

.recipe-section {
  margin-bottom: 2rem;
}

.section-title {
  font-size: 1.25rem;
  font-weight: 600;
  color: #1f2937;
  margin-bottom: 1rem;
  display: flex;
  align-items: center;
  gap: 0.5rem;
}

.ingredients-list,
.instructions-list {
  list-style: none;
}

.ingredients-list li,
.instructions-list li {
  padding: 0.5rem 0;
  border-bottom: 1px solid #f3f4f6;
  display: flex;
  align-items: center;
  gap: 0.75rem;
}

.ingredients-list li:before {
  content: "•";
  color: #4f46e5;
  font-weight: bold;
}
```

```
    font-size: 1.2rem;
}

.instructions-list li {
    counter-increment: step-counter;
}

.instructions-list li:before {
    content: counter(step-counter);
    background: #4f46e5;
    color: white;
    border-radius: 50%;
    width: 24px;
    height: 24px;
    display: flex;
    align-items: center;
    justify-content: center;
    font-size: 0.75rem;
    font-weight: 600;
    flex-shrink: 0;
}

.instructions-list {
    counter-reset: step-counter;
}

/* Empty State */
.empty-state {
    text-align: center;
    padding: 4rem 2rem;
    color: white;
}

.empty-state i {
    font-size: 4rem;
    margin-bottom: 1rem;
    opacity: 0.5;
}
```

```
}

.empty-state h3 {
  font-size: 1.5rem;
  margin-bottom: 0.5rem;
}

.empty-state p {
  opacity: 0.8;
}

/* Responsive Design */
@media (max-width: 768px) {
  .header-content {
    flex-direction: column;
    text-align: center;
  }

  .header h1 {
    font-size: 1.5rem;
  }

  .search-container {
    order: 1;
    max-width: none;
  }

  .add-recipe-btn {
    order: 2;
  }

  .filter-tabs {
    gap: 0.5rem;
  }

  .tab-btn {
    padding: 0.5rem 1rem;
  }
}
```

```
        font-size: 0.875rem;
    }

    .recipes-grid {
        grid-template-columns: 1fr;
        gap: 1rem;
    }

    .form-row {
        grid-template-columns: 1fr;
    }

    .recipe-detail-meta {
        gap: 1rem;
    }

    .modal-content {
        width: 95%;
        padding: 1.5rem;
    }
}

/* Loading Animation */
.loading {
    display: inline-block;
    width: 20px;
    height: 20px;
    border: 3px solid rgba(255, 255, 255, 0.3);
    border-radius: 50%;
    border-top-color: #fff;
    animation: spin 1s ease-in-out infinite;
}

@keyframes spin {
    to {
        transform: rotate(360deg);
    }
}
```

```
}
```

## //script.js

```
class RecipeApp {
  constructor() {
    this.recipes = this.loadRecipes();
    this.currentEditId = null;
    this.currentFilter = 'all';

    this.initializeElements();
    this.bindEvents();
    this.renderRecipes();
  }

  initializeElements() {
    this.recipesGrid =
document.getElementById('recipesGrid');
    this.addRecipeBtn =
document.getElementById('addRecipeBtn');
    this.recipeModal =
document.getElementById('recipeModal');
    this.recipeDetailModal =
document.getElementById('recipeDetailModal');
    this.recipeForm =
document.getElementById('recipeForm');
    this.searchInput =
document.getElementById('searchInput');
    this.tabBtns = document.querySelectorAll('.tab-btn');
    this.closeModalBtns =
document.querySelectorAll('.close-btn');
    this.cancelBtn = document.getElementById('cancelBtn');
  }

  bindEvents() {
    this.addRecipeBtn.addEventListener('click', () =>
this.openModal());
  }
}
```



```

        this.recipeForm.addEventListener('submit', (e) =>
this.handleSubmit(e));

        this.searchInput.addEventListener('input', (e) =>
this.handleSearch(e));

        this.cancelBtn.addEventListener('click', () =>
this.closeModal());

        this.closeModalBtns.forEach(btn => {
            btn.addEventListener('click', () =>
this.closeModal());
        });

        this.tabBtns.forEach(btn => {
            btn.addEventListener('click', (e) =>
this.handleFilter(e));
        });

        // Close modal on outside click
        [this.recipeModal,
this.recipeDetailModal].forEach(modal => {
            modal.addEventListener('click', (e) => {
                if (e.target === modal) this.closeModal();
            });
        });

        // Keyboard shortcuts
        document.addEventListener('keydown', (e) => {
            if (e.key === 'Escape') this.closeModal();
            if (e.key === 'n' && e.ctrlKey) {
                e.preventDefault();
                this.openModal();
            }
        });
    }

    loadRecipes() {
        const stored = localStorage.getItem('recipes');

```

```
    if (stored) {
        return JSON.parse(stored);
    }

    // Default recipes with sample data
    return [
        {
            id: 1,
            name: "Classic Pancakes",
            category: "breakfast",
            cookingTime: 20,
            difficulty: "easy",
            servings: 4,
            imageUrl:
"https://images.pexels.com/photos/376464/pexels-photo-376464.j
peg",
            ingredients: ["2 cups all-purpose flour", "2
tablespoons sugar", "2 teaspoons baking powder", "1 teaspoon
salt", "2 large eggs", "1 3/4 cups milk", "1/4 cup melted
butter"],
            instructions: "1. Mix dry ingredients in a
large bowl\n2. Whisk eggs, milk, and melted butter in another
bowl\n3. Combine wet and dry ingredients until just mixed\n4.
Heat griddle or pan over medium heat\n5. Pour 1/4 cup batter
for each pancake\n6. Cook until bubbles form, flip and cook
until golden"
        },
        {
            id: 3,
            name: "Chocolate Chip Cookies",
            category: "dessert",
            cookingTime: 25,
            difficulty: "easy",
            servings: 24,
            imageUrl:
"https://images.pexels.com/photos/230325/pexels-photo-230325.j
peg",
```

```

        ingredients: ["2 1/4 cups flour", "1 cup
butter, softened", "3/4 cup brown sugar", "1/2 cup white
sugar", "2 eggs", "1 tsp vanilla", "1 tsp baking soda", "1/2
tsp salt", "2 cups chocolate chips"],

        instructions: "1. Preheat oven to 375°F\n2.
Cream butter and sugars\n3. Beat in eggs and vanilla\n4. Mix
in flour, baking soda, and salt\n5. Stir in chocolate
chips\n6. Drop spoonfuls on baking sheet\n7. Bake 9-11 minutes
until golden"
    }

    ];

}

saveRecipes() {
    localStorage.setItem('recipes',
JSON.stringify(this.recipes));
}

generateId() {
    return Date.now() + Math.random();
}

openModal(recipe = null) {
    this.currentEditId = recipe ? recipe.id : null;
    const modalTitle =
document.getElementById('modalTitle');
    modalTitle.textContent = recipe ? 'Edit Recipe' : 'Add
New Recipe';

    if (recipe) {
        this.populateForm(recipe);
    } else {
        this.recipeForm.reset();
    }

    this.recipeModal.classList.add('show');
    document.body.style.overflow = 'hidden';

```

```

    }

    populateForm(recipe) {
        document.getElementById('recipeName').value =
recipe.name;
        document.getElementById('recipeCategory').value =
recipe.category;
        document.getElementById('cookingTime').value =
recipe.cookingTime;
        document.getElementById('difficulty').value =
recipe.difficulty;
        document.getElementById('servings').value =
recipe.servings;
        document.getElementById('imageUrl').value =
recipe.imageUrl || '';
        document.getElementById('ingredients').value =
Array.isArray(recipe.ingredients)
            ? recipe.ingredients.join('\n')
            : recipe.ingredients;
        document.getElementById('instructions').value =
recipe.instructions;
    }

    closeModal() {
        this.recipeModal.classList.remove('show');
        this.recipeDetailModal.classList.remove('show');
        document.body.style.overflow = '';
        this.currentEditId = null;
    }

    handleSubmit(e) {
        e.preventDefault();

        const formData = new FormData(this.recipeForm);
        const recipe = {
            id: this.currentEditId || this.generateId(),

```

```

        name: formData.get('recipeName') ||
document.getElementById('recipeName').value,
        category: formData.get('recipeCategory') ||
document.getElementById('recipeCategory').value,
        cookingTime: parseInt(formData.get('cookingTime')
|| document.getElementById('cookingTime').value),
        difficulty: formData.get('difficulty') ||
document.getElementById('difficulty').value,
        servings: parseInt(formData.get('servings') ||
document.getElementById('servings').value),
        imageUrl: formData.get('imageUrl') ||
document.getElementById('imageUrl').value,
        ingredients: (formData.get('ingredients') ||
document.getElementById('ingredients').value)
            .split('\n')
            .filter(ingredient => ingredient.trim())
            .map(ingredient => ingredient.trim()),
        instructions: formData.get('instructions') ||
document.getElementById('instructions').value
    };

    if (this.currentEditId) {
        const index = this.recipes.findIndex(r => r.id ===
this.currentEditId);
        if (index !== -1) {
            this.recipes[index] = recipe;
        }
    } else {
        this.recipes.push(recipe);
    }

    this.saveRecipes();
    this.renderRecipes();
    this.closeModal();

    // Show success message
    this.showNotification(

```

```

        this.currentEditId ? 'Recipe updated successfully!'
: 'Recipe added successfully!',
        'success'
    );
}

handleSearch(e) {
    const searchTerm = e.target.value.toLowerCase();
    this.renderRecipes(searchTerm);
}

handleFilter(e) {
    this.tabBtns.forEach(btn =>
btn.classList.remove('active'));
    e.target.classList.add('active');
    this.currentFilter = e.target.dataset.category;
    this.renderRecipes();
}

renderRecipes(searchTerm = '') {
    let filteredRecipes = this.recipes;

    // Apply category filter
    if (this.currentFilter !== 'all') {
        filteredRecipes = filteredRecipes.filter(recipe =>
            recipe.category === this.currentFilter
        );
    }

    // Apply search filter
    if (searchTerm) {
        filteredRecipes = filteredRecipes.filter(recipe =>
            recipe.name.toLowerCase().includes(searchTerm)
||
            recipe.ingredients.some(ingredient =>
ingredient.toLowerCase().includes(searchTerm)

```

```

        )
    );
}

if (filteredRecipes.length === 0) {
    this.recipesGrid.innerHTML = `
        <div class="empty-state">
            <i class="fas fa-utensils"></i>
            <h3>No recipes found</h3>
            <p>${searchTerm ? 'Try adjusting your
search terms' : 'Start by adding your first recipe!'}</p>
        </div>
    `;
    return;
}

this.recipesGrid.innerHTML = filteredRecipes
    .map((recipe, index) =>
this.createRecipeCard(recipe, index))
    .join('');

// Bind card events
this.bindCardEvents();
}

createRecipeCard(recipe, index) {
    const defaultImage =
"https://images.pexels.com/photos/1640777/pexels-photo-1640777
.jpeg";

    const imageUrl = recipe.imageUrl &&
recipe.imageUrl.trim() ? recipe.imageUrl : defaultImage;

    return `
        <div class="recipe-card" style="animation-delay:
${index * 0.1}s">
            
    <div class="recipe-content">
        <div class="recipe-header">
            <div>
                <h3
class="recipe-title">${recipe.name}</h3>
                <span class="difficulty
${recipe.difficulty}">${recipe.difficulty}</span>
            </div>
            <span
class="recipe-category">${recipe.category}</span>
        </div>

        <div class="recipe-meta">
            <div class="meta-item">
                <i class="fas fa-clock"></i>
                <span>${recipe.cookingTime}
min</span>

            </div>
            <div class="meta-item">
                <i class="fas fa-users"></i>
                <span>${recipe.servings}
servings</span>

            </div>
            <div class="meta-item">
                <i class="fas fa-list"></i>
                <span>${recipe.ingredients.length}
ingredients</span>

            </div>
        </div>

        <p class="recipe-description">
            ${recipe.ingredients.slice(0,
3).join(', ')}${recipe.ingredients.length > 3 ? '...' : ''}
        </p>

        <div class="recipe-actions">

```



```

        <button class="action-btn view-btn"
onclick="app.viewRecipe(${recipe.id})">
            <i class="fas fa-eye"></i> View
        </button>
        <button class="action-btn edit-btn"
onclick="app.editRecipe(${recipe.id})">
            <i class="fas fa-edit"></i> Edit
        </button>
        <button class="action-btn delete-btn"
onclick="app.deleteRecipe(${recipe.id})">
            <i class="fas fa-trash"></i> Delete
        </button>
    </div>
</div>
</div>
`
;
}

bindCardEvents() {
    const cards =
document.querySelectorAll('.recipe-card');
    cards.forEach(card => {
        card.addEventListener('mouseenter', () => {
            card.style.transform = 'translateY(-10px)';
        });

        card.addEventListener('mouseleave', () => {
            card.style.transform = 'translateY(0)';
        });
    });
}

viewRecipe(id) {
    const recipe = this.recipes.find(r => r.id === id);
    if (!recipe) return;

```

```

        const defaultImage =
"https://images.pexels.com/photos/1640777/pexels-photo-1640777
.jpeg";
        const imageUrl = recipe.imageUrl &&
recipe.imageUrl.trim() ? recipe.imageUrl : defaultImage;

document.getElementById('recipeDetailContent').innerHTML = `
        <div class="recipe-detail-header">
            
            <h2
class="recipe-detail-title">${recipe.name}</h2>
            <div class="recipe-detail-meta">
                <div class="detail-meta-item">
                    <div class="icon"><i class="fas
fa-clock"></i></div>
                    <div class="label">Cooking Time</div>
                    <div
class="value">${recipe.cookingTime} min</div>
                </div>
                <div class="detail-meta-item">
                    <div class="icon"><i class="fas
fa-users"></i></div>
                    <div class="label">Servings</div>
                    <div
class="value">${recipe.servings}</div>
                </div>
                <div class="detail-meta-item">
                    <div class="icon"><i class="fas
fa-signal"></i></div>
                    <div class="label">Difficulty</div>
                    <div class="value difficulty
${recipe.difficulty}">${recipe.difficulty}</div>
                </div>
            </div>
        </div>

```



```

editRecipe(id) {
    const recipe = this.recipes.find(r => r.id === id);
    if (recipe) {
        this.openModal(recipe);
    }
}

deleteRecipe(id) {
    if (confirm('Are you sure you want to delete this
recipe?')) {
        const card =
document.querySelector(`[onclick="app.deleteRecipe(${id})"]`).
closest('.recipe-card');
        card.classList.add('removing');

        setTimeout(() => {
            this.recipes = this.recipes.filter(r => r.id
!== id);

            this.saveRecipes();
            this.renderRecipes();
            this.showNotification('Recipe deleted
successfully!', 'success');
        }, 400);
    }
}

showNotification(message, type = 'info') {
    const notification = document.createElement('div');
    notification.className = `notification ${type}`;
    notification.style.cssText = `
        position: fixed;
        top: 20px;
        right: 20px;
        background: ${type === 'success' ? '#10b981' :
'#3b82f6'};
        color: white;
        padding: 1rem 1.5rem;
    `;
}

```

```

        border-radius: 8px;
        box-shadow: 0 10px 30px rgba(0, 0, 0, 0.2);
        z-index: 10000;
        transform: translateX(400px);
        transition: transform 0.3s ease;
    `;
    notification.textContent = message;

    document.body.appendChild(notification);

    setTimeout(() => {
        notification.style.transform = 'translateX(0)';
    }, 100);

    setTimeout(() => {
        notification.style.transform = 'translateX(400px)';
        setTimeout(() => {
            document.body.removeChild(notification);
        }, 300);
    }, 3000);
}
}

// Initialize app when DOM is loaded
document.addEventListener('DOMContentLoaded', () => {
    window.app = new RecipeApp();
});

// Service Worker for offline functionality (optional)
if ('serviceWorker' in navigator) {
    window.addEventListener('load', () => {
        navigator.serviceWorker.register('/sw.js')
            .then(() => console.log('SW registered'))
            .catch(() => console.log('SW registration
failed'));
    });
}

```



