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Project Name	Recipe Manager Web App
Document	Automation Proposal – Recipe Manager Web App

1. Recommended Test Cases for Automation

The following test cases are recommended for Phase 1 UI automation. They cover core CRUD, search, filter, and persistence flows for the Recipe Manager Web App, using the Maggi noodle recipe as the primary test data.

TC-001 – Create Maggi recipe with all mandatory fields (happy path)

Justification: Core creation flow, business-critical, stable UI pattern, ideal smoke test candidate.

TC-003 – Attempt to save recipe with empty title

Justification: Mandatory validation; simple, stable, and high-value to prevent data-quality regressions.

TC-015 – Search recipe by title keyword 'Maggi'

Justification: Search behavior is sensitive to backend/index changes; automation ensures consistent results.

TC-018 – Filter recipes by category 'Noodles'

Justification: Tests category tagging + filtering logic; regression-prone and important for navigation.

TC-028 – Verify recipe persistence after logout/login

Justification: Ensures stored recipes survive across sessions; high trust factor and ideal regression case.

2. Automation Strategy

The automation strategy is to target stable, high-impact user journeys and validations first. We will use a Page Object Model (POM) with data-driven inputs for the Maggi recipe, ensuring tests are maintainable and reusable across environments. The selected tests will form the core smoke and regression suite to be run on every build and nightly in CI.

3. Proposed Framework & Folder Structure

A modular Page Object Model (POM) structure is proposed. The high-level folder layout is as follows:

```
automation/
|
├──── config/
|     └──── config.js          # baseUrl, browser settings
|
├──── tests/
|     ├──── create_recipe.spec.js    # TC-001
|     ├──── title_validation.spec.js  # TC-003
|     ├──── search_recipe.spec.js    # TC-015
|     ├──── filter_category.spec.js  # TC-018
|     └──── persistence.spec.js      # TC-028
|
├──── pages/
|     ├──── LoginPage.js
|     ├──── RecipeListPage.js
|     ├──── RecipeCreatePage.js
|     └──── RecipeDetailPage.js
|
├──── data/
|     └──── recipes.json           # Your Maggi recipe test data
|
├──── utils/
|     └──── helpers.js             # Common helper functions
|
├──── reports/
|     └──── test-report.html
|
├──── package.json
└──── README.md
```

4. Pseudo Automation Flows (Code-Oriented)

Below is explicit pseudo code for each selected test case, written in a style similar to modern UI automation frameworks (e.g., Playwright, Cypress, Selenium + TestNG/JUnit).

TC-001: Create Maggi recipe with all mandatory fields

```
test('TC-001: Create Maggi recipe with mandatory fields', () => {
  LoginPage.loginIfRequired(validUser);

  RecipeListPage.goToCreateRecipe();

  RecipeCreatePage.fillTitle('Maggi Noodle Preparation');
  RecipeCreatePage.fillIngredients([
    '2 Maggi noodle packets',
    '2 tastemaker sachets',
    '400 ml water (200 ml × 2)',
    'Stove',
    'Cooking pot (≥ 1 liter)',
    'Spoon'
  ]);
  RecipeCreatePage.fillSteps(maggiStepsArray); // Steps 1–5 from data file

  RecipeCreatePage.submit();

  RecipeListPage.assertRecipeVisible('Maggi Noodle Preparation');
  RecipeListPage.openRecipe('Maggi Noodle Preparation');

  RecipeDetailPage.assertIngredientsContain('400 ml water (200 ml × 2)');
  RecipeDetailPage.assertStepsInOrder(maggiStepsArray);
});
```

TC-003: Title mandatory validation

```
test('TC-003: Title field is mandatory', () => {
  LoginPage.loginIfRequired(validUser);
  RecipeListPage.goToCreateRecipe();

  RecipeCreatePage.fillTitle('   '); // whitespace only
  RecipeCreatePage.fillIngredients(maggiIngredients400);
  RecipeCreatePage.fillSteps(maggiStepsArray);

  RecipeCreatePage.submit();

  RecipeCreatePage.assertTitleValidationMessage('Title is required');
  RecipeListPage.assertRecipeNotPresent('Maggi Noodle Preparation');
});
```

TC-015: Search recipe by keyword 'Maggi'

```
test('TC-015: Search recipe by title keyword', () => {
  LoginPage.loginIfRequired(validUser);

  RecipeListPage.open();
  RecipeListPage.searchByTitle('Maggi');

  RecipeListPage.assertRecipeVisible('Maggi Noodle Preparation');
});
```

TC-018: Filter recipes by category 'Noodles'

```
test('TC-018: Filter recipes by category Noodles', () => {
  LoginPage.loginIfRequired(validUser);

  RecipeListPage.open();
  RecipeListPage.applyCategoryFilter('Noodles');

  RecipeListPage.assertRecipeVisible('Maggi Noodle Preparation');
  RecipeListPage.assertOnlyCategoryVisible('Noodles');
});
```

TC-028: Verify recipe persistence after logout/login

```
test('TC-028: Recipe persists across logout/login', () => {
  LoginPage.login(validUser);

  // Precondition: Maggi recipe exists; if not, create it via helper or API
  RecipeListPage.ensureRecipeExists('Maggi Noodle Preparation', maggiRecipeData400);

  LoginPage.logout();
  LoginPage.login(validUser);
  RecipeListPage.searchByTitle('Maggi');
  RecipeListPage.assertRecipeVisible('Maggi Noodle Preparation');
  RecipeDetailPage.openFromList('Maggi Noodle Preparation');
  RecipeDetailPage.assertIngredientsContain('400 ml water (200 ml × 2)');
});
```