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Batch S 07

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INTRODUCTION

PURPOSE

The purpose of this test plan is to define the strategy, scope, objectives, and activities required to manually test the **Delicious Recipe** (E-Recipe Book) application. The testing process aims to ensure the platform functions as expected, providing a smooth experience for both registered users and guests.

OBJECTIVES

- Validate that users can **register, log in, create, edit, search, view, save, rate, and comment on recipes**.
- Ensure **guests** can only search for recipes and view **recipe thumbnails**.
- Verify that the application meets usability, security, and performance standards.
- Identify and resolve defects early to enhance the platform's reliability.

SCOPE OF TESTING

The Scope of testing for the Organic Health Food Store website includes the validation of functional and non-functional aspects of the application. The testing will focus on identifying and resolving issues to ensure the application meets quality standard and end-user requirements.

In-Scope

For Logged-in Users:

- User Registration and Login
- Creating Recipes
- Editing Recipes
- Searching Recipes
- Viewing Full Recipe Details
- Saving Favorite Recipes
- Star Rating System
- Commenting on Recipes

For Guest Users:

- Searching Recipes
- Viewing Recipe Thumbnails

Non-functional Testing:

- UI/UX Testing :Validation of user interface and responsiveness.
- Compatibility Testing: Chrome, Edge, Firefox
- Security Testing :Validating safe sign in and user data handling.

Out-of-Scope:

- Automated Testing
- Backend Database Optimization
- API Testing

TEST ITEMS

- User Registration and Login
- Recipe Creation and Editing
- Recipe Search and Filtering
- Recipe Viewing
- Saving Favorite Recipes
- Commenting System
- Star Rating Feature
- Guest User Accessibility

TEST APPROACH

Test Levels

Unit Testing

Focus: Testing individual components or functions in isolation.

Applicable Features:

- **User Registration and Login:**
 - Testing individual functions for password hashing, email validation, and user creation.
 - Testing login logic for correct authentication.
- **Recipe Creation and Editing:**
 - Testing ingredient parsing functions.
 - Testing image validation.
 - Testing individual form validation functions.
- **Recipe Search and Filtering:**
 - Testing individual search and filtering algorithms.

- **Star Rating Feature:**
- **Individual Helper Functions:** Any small, reusable functions used in the application.

Integration Testing

Focus: Testing the interaction between different modules or components.

Applicable Features:

- **User Registration and Login + Recipe Creation**
 - Testing that a registered user can successfully create and edit recipes.
 - Testing that the user is correctly associated with created recipes.
- **Recipe Search and Filtering + Recipe Viewing**
 - Testing that search results correctly display the corresponding recipes.
 - Testing that filtering results in the correct subset of recipes.
- **Saving Favorite Recipes + Recipe Viewing:**
 - Testing the interaction between the 'save favorite' button, the users favorite list, and the recipe viewing page.
- **Commenting System + Recipe Viewing:**
 - Testing that comments are correctly associated with the recipe and displayed.
- **Star Rating Feature + Recipe Viewing:**
 - Testing that ratings are correctly stored and displayed on the recipe page.

System Testing:

Focus: Testing the entire application as a whole

Applicable Features:

- **Full User Workflow:**
 - Testing the complete workflow from user registration to recipe creation, searching, viewing, saving favorites, commenting, and rating.
 - Testing the complete login and logout process.
- **Security Testing:**
 - Testing for vulnerabilities in user authentication
- **Usability Testing:**
 - Testing the user interface and user experience for ease of use.
 - Testing the website/app on different browsers and devices.
- **Guest User Accessibility:**
 - Testing that guest users can properly view recipes, and that they are properly restricted from features that require login.

Test Types

- **Functional Testing:** Test all features
- **Usability Testing:** Ensure the app is user-friendly.
- **Compatibility Testing:** Ensure the app works across devices.

TEST CRITERIA

● ENTRY CRITERIA:

- Test environment setup is available.
- Test data are reviewed and ready for execution.
- Application's module feature has to be completed.

● EXIT CRITERIA:

- All critical defects detected are resolved.
- Test cases have been executed, the issues are documented for follow-up.
- Test Report is created and reviewed.

TEST DELIVERABLES

- Test Plan Document
- Test Case Document
- Test Data
- Test Execution Report
- Defect Report.

RISKS AND MITIGATION

Risk and mitigation

TEST ENVIRONMENT

URL:

<https://deliciousrecipies.pythonanywhere.com/>

Browsers :

Google chrome ,Microsoft Edge .Mozilla Firefox

Devices :

Laptop, Mobile device

Operating System :

Windows 10 Android(latest version)

Network :

Stable Internet Connection

TEST SCENARIO

[Test Scenarios](#)

TEST CASES

[Manual Project test cases](#)

TEST EXECUTION REPORT

[Test execution report](#)

DEFECT REPORT

[Bug Report](#)

Bug Statistics

Critical Bugs (6): Security vulnerabilities, such as weak password allowance, duplicate phone numbers, and untrimmed white spaces, pose a **high risk** to data integrity and system reliability.

Major Bugs (29): Issues affecting **functionality and user experience**, including improper error messages, missing validation checks, search inaccuracies, and UI inconsistencies.

Minor Bugs (5): Less critical but necessary UI/UX improvements, such as spelling mistakes, placeholder text absence, and unnecessary messages.

Blocker Bugs (1): A critical issue where an unresponsive page occurs when dropdowns are left blank, preventing further interaction.

	Critical	Major	Minor	Blocker	Total
High Priority	6	15	0	1	22
Medium Priority	0	11	3	0	14
Low Priority	0	3	2	0	5
Total	6	29	5	1	41

SUGGESTION

[Suggestions](#)

TEST SUMMARY

- Total Test cases executed : 120
- Total Bugs Reported : 41
- Passed Test Case : 79
- Failed Test Cases : 41
- Pass Rate : 65.83%

Over All Status : PARTIALLY FUNCTIONAL

CONCLUSION

The test execution data highlights key functional areas that require further improvements. While some modules, such as the **Navigation Bar (100%)** and **User Profile (100%)**, performed exceptionally well, other critical functions, including **Home (33.33%)**, **Registration (37.50%)**, and **Post Recipe (53.66%)**, exhibited significant failures. The **Search Recipe (80%)** and **View Recipe (81.48%)** functions performed relatively well but still have room for improvement.

The overall pass rate of **65.83%** indicates that the **E-Recipe Book** is partially functional but still requires refinement to meet the expected standards. Key issues related to **recipe posting, search functionality, and Registration** must be addressed before the system can be considered fully stable. It is recommended to prioritize fixing these defects and conduct a retest to ensure an improved pass rate.