Introduction

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## 

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Batch S 07

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## 

## TABLE OF CONTENTS

## Introduction……………………………………………………………2

#### 1.1 Purpose

#### 1.2 Objectives

#### 1.3 Scope of Testing

## Test Items………………………………………………………………3

## Test Approach………………………………………………………….3

#### 3.1 Test Levels

#### 3.2 Test Types

## Test Criteria…………………………………………………………….5

## Test Deliverables……………………………………………………….5

## Risks and Mitigation……………………………………………………5

## Test Environment……………………………………………………….5

## Test Scenario……………………………………………………………6

## Test Case………………………………………………………………...6

## Test Execution Report…………………………………………………...6

## Defect Report……………………………………………………………6

#### 14.1. Bug Statistics

## Suggestion……………………………………………………………….7

## Test Summary……………………………………………………………7

## Conclusion……………………………………………………………….8

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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](https://docs.google.com/spreadsheets/d/1tbl-Ve_St7AdUtmPBQIe8xgDZnXneSK52k0rU7ZioTk/edit?usp=drive_link)

## 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](https://docs.google.com/spreadsheets/d/1wF64O2q75D36aV3OisiMji2uNrAy1nownBvOzglcjPw/edit?gid=1810407813#gid=1810407813)

## TEST CASES

[Manual Project test cases](https://docs.google.com/spreadsheets/d/1wF64O2q75D36aV3OisiMji2uNrAy1nownBvOzglcjPw/edit?gid=386017763#gid=386017763)

## TEST EXECUTION REPORT

[Test execution report](https://docs.google.com/spreadsheets/d/1wF64O2q75D36aV3OisiMji2uNrAy1nownBvOzglcjPw/edit?gid=1828496244#gid=1828496244)

## DEFECT REPORT

[Bug Report](https://docs.google.com/spreadsheets/d/1wF64O2q75D36aV3OisiMji2uNrAy1nownBvOzglcjPw/edit?gid=2014792776#gid=2014792776)

#### 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](https://docs.google.com/spreadsheets/d/1wF64O2q75D36aV3OisiMji2uNrAy1nownBvOzglcjPw/edit?gid=1139841227#gid=1139841227)

## 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.

Tab 2