CSIT314 Project Test Plan & Test Cases

[Document subtitle]

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# Test Plan Introduction

The objective of this test plan is to show how testing will be done for the Hopium program.

# Test Strategy

## Test Objectives

The objective of testing is to ensure that the program works as intended and that there are no critical errors that will affect the end user.

## Test Assumptions

Key Assumptions

* Testing Data will include a small amount of data for initial testing and a larger production like amount of data for final testing
* Performance will not be considered for testing
* Any defects will be reported to the developer team to fix

## Scope of Testing

### Front End Testing

**Purpose:** Front end testing will focus on what the end user will see and experience as they use the program.

**Scope:** Testing will be mainly focused on GUI elements

**Method:** Testing will be mainly done manually based on test case steps and results will be compared to expected GUI results.

### Functional Testing

**Purpose:** Testing will be performed to check the functions of the program. Testing is done by feeding the functions inputs and checking the output of the functions.

**Scope:** Testing will mainly be done on the Controller and Entity classes to check if they can retrieve the correct information from the database.

**Method:** Tests will be mainly performed using Junit 5 scripts to run automated tests.

# Defect Severity Categorisation

Defects will be given a severity level to show the severity of the defect and the priority in fixing the defect.

|  |  |  |
| --- | --- | --- |
| Severity | Priority | Impact |
| Critical | 1 | Defect that can crash the program |
| High | 2 | Defect that disables a function of the program |
| Medium | 3 | Defect that disables a function of the program but has a workaround |
| Low | 4 | Defect that has minimal impact on functionality or purely cosmetic |

# 

# Test Cases for User Stories

## User Story #1

As a User Admin, I want to login so that I can manage user accounts

**Front End Testing**

|  |  |  |
| --- | --- | --- |
| **ID** | **Test Case** | **Purpose** |
| 1.1 | Login with valid User Admin credentials | Test if user admin can login with valid credentials |
| 1.2 | Login with invalid User Admin credentials | Test if user admin can login without valid credentials |
| 1.3 | Login with valid User Admin credentials but wrong profile | Test if user admin can login if choosing the wrong profile |

|  |  |
| --- | --- |
| **Test Case 1.1 – Login with valid User Admin credentials** | |
| **Steps** | 1. Start application 2. Click ‘Staff’ button 3. Type in valid credentials (user\_admin1 for both fields) 4. Select ‘User Admin’ in profile dropdown menu 5. Click ‘Login’ button |
| **Expected Results** | Logged in and User Admin homepage displayed |
| **Actual Results** | Logged in and User Admin homepage displayed |
| **Pass/Fail** | **PASS** |

|  |  |
| --- | --- |
| **Test Case 1.2 – Login with invalid User Admin credentials** | |
| **Steps** | 1. Start application 2. Click ‘Staff’ button 3. Type in invalid credentials (user\_admin0 for both fields) 4. Select ‘User Admin’ in profile dropdown menu 5. Click ‘Login’ button |
| **Expected Results** | Failed Login |
| **Actual Results** | Failed Login |
| **Pass/Fail** | **PASS** |

|  |  |
| --- | --- |
| **Test Case 1.3 – Login with valid User Admin credentials but wrong profile** | |
| **Steps** | 1. Start application 2. Click ‘Staff’ button 3. Type in valid credentials (user\_admin1 for both fields) 4. Select wrong profile in the profile dropdown menu (Restaurant Manager selected) 5. Click ‘Login’ button |
| **Expected Results** | Failed Login |
| **Actual Results** | Failed Login |
| **Pass/Fail** | **PASS** |

**Functional Testing**

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Test Case | Tested Class | Tested Function |
| 1.4 | Test checkUserExistence() with valid User Admin credentials | Staff | checkUserExistence() |
| 1.5 | Test checkUserExistence() with invalid User Admin credentials | Staff | checkUserExistence() |
| 1.6 | Test checkUserExistence() with valid User Admin credentials but wrong profile | Staff | checkUserExistence() |

|  |  |
| --- | --- |
| **Test Case 1.4 - Test checkUserExistence() with valid User Admin credentials** | |
| **Expected Results** | Function returns true |
| **Actual Results** | Function returns true |
| **Pass/Fail** | **PASS** |

|  |  |
| --- | --- |
| **Test Case 1.5 - Test checkUserExistence() with invalid User Admin credentials** | |
| **Expected Results** | Function returns false |
| **Actual Results** | Function returns false |
| **Pass/Fail** | **PASS** |

|  |  |
| --- | --- |
| **Test Case 1.6 - Test checkUserExistence() with valid User Admin credentials but wrong profile** | |
| **Expected Results** | Function returns false |
| **Actual Results** | Function returns false |
| **Pass/Fail** | **PASS** |

## User Story #2

As a User Admin, I want to logout so that other people can login and for security purposes

**Front End Testing**

|  |  |  |
| --- | --- | --- |
| **ID** | **Test Case** | **Purpose** |
| 2.1 | Log out from the User Admin account | Test if the user admin can log out of the account |

|  |  |
| --- | --- |
| **Test Case 2.1 – Log out from the User Admin account** | |
| **Steps** | 1. While in the User Admin homepage, click the log out button |
| **Expected Results** | Logged out and returned to the login page |
| **Actual Results** | Logged out and returned to the login page |
| **Pass/Fail** | **PASS** |

## User Story #13

As a Restaurant Manager, I want to login so that I can create/modify menu items, coupons, etc.

**Front End Testing**

|  |  |  |
| --- | --- | --- |
| **ID** | **Test Case** | **Purpose** |
| 13.1 | Login with valid Restaurant Manager credentials | Test if restaurant manager can login with valid credentials |
| 13.2 | Login with invalid Restaurant Manager credentials | Test if restaurant manager can login without valid credentials |
| 13.3 | Login with valid Restaurant Manager credentials but wrong profile | Test if restaurant manager can login if choosing the wrong profile |

|  |  |
| --- | --- |
| **Test Case 13.1 – Login with valid Restaurant Manager credentials** | |
| **Steps** | 1. Start Application 2. Click 'Staff' button 3. Type in valid username and password (manager1 for both fields) 4. Select Restaurant Manager in the profile login dropdown menu 5. Click 'Login' button |
| **Expected Results** | Logged in and Restaurant Manager homepage displayed |
| **Actual Results** | Logged in and Restaurant Manager homepage displayed |
| **Pass/Fail** | **PASS** |

|  |  |
| --- | --- |
| **Test Case 13.2 – Login with invalid Restaurant Manager credentials** | |
| **Steps** | 1. Start Application 2. Click 'Staff' button 3. Type in invalid username and password (manager0 for both fields) 4. Select Restaurant Manager in the profile login dropdown menu 5. Click 'Login' button |
| **Expected Results** | Failed Login |
| **Actual Results** | Failed Login |
| **Pass/Fail** | **PASS** |

|  |  |
| --- | --- |
| **Test Case 13.3 – Login with valid Restaurant Manager credentials but wrong profile** | |
| **Steps** | 1. Start Application 2. Click 'Staff' button 3. Type in valid username and password (manager1 for both fields) 4. Select wrong profile in the profile login dropdown menu (User Admin selected) 5. Click 'Login' button |
| **Expected Results** | Failed Login |
| **Actual Results** | Failed Login |
| **Pass/Fail** | **PASS** |

**Functional Testing**

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Test Case | Tested Class | Tested Function |
| 13.4 | Test checkUserExistence() with valid Restaurant Manager credentials | Staff | checkUserExistence() |
| 13.5 | Test checkUserExistence() with invalid Restaurant Manager credentials | Staff | checkUserExistence() |
| 13.6 | Test checkUserExistence() with valid Restaurant Manager credentials but wrong profile | Staff | checkUserExistence() |

|  |  |
| --- | --- |
| **Test Case 13.4 - Test checkUserExistence() with valid Restaurant Manager credentials** | |
| **Expected Results** | Function returns true |
| **Actual Results** | Function returns true |
| **Pass/Fail** | **PASS** |

|  |  |
| --- | --- |
| **Test Case 13.5 - Test checkUserExistence() with invalid Restaurant Manager credentials** | |
| **Expected Results** | Function returns false |
| **Actual Results** | Function returns false |
| **Pass/Fail** | **PASS** |

|  |  |
| --- | --- |
| **Test Case 13.6 - Test checkUserExistence() with valid Restaurant Manager credentials but wrong profile** | |
| **Expected Results** | Function returns false |
| **Actual Results** | Function returns false |
| **Pass/Fail** | **PASS** |

## User Story #14

As a Restaurant Manager, I want to logout so that other people can login and for security purposes

**Front End Testing**

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| --- | --- | --- |
| **ID** | **Test Case** | **Purpose** |
| 14.1 | Log out from the Restaurant Manager account | Test if the restaurant manager can log out of the account |

|  |  |
| --- | --- |
| **Test Case 14.1 – Log out from the Restaurant Manager account** | |
| **Steps** | 1. While in the Restaurant Manager homepage, click the log out button |
| **Expected Results** | Logged out and returned to the login page |
| **Actual Results** | Logged out and returned to the login page |
| **Pass/Fail** | **PASS** |

## User Story #20

As a Restaurant Staff, I want to login so that I can manage and fulfil orders

**Front End Testing**

|  |  |  |
| --- | --- | --- |
| **ID** | **Test Case** | **Purpose** |
| 20.1 | Login with valid Restaurant Staff credentials | Test if restaurant staff can login with valid credentials |
| 20.2 | Login with invalid Restaurant Staff credentials | Test if restaurant staff can login without valid credentials |
| 20.3 | Login with valid Restaurant Staff credentials but wrong profile | Test if restaurant staff can login if choosing the wrong profile |

|  |  |
| --- | --- |
| **Test Case 20.1 – Login with valid Restaurant Staff credentials** | |
| **Steps** | 1. Start application 2. Click ‘Staff’ button 3. Type in valid credentials (user1 for both fields) 4. Select ‘Restaurant Staff’ in profile dropdown menu 5. Click ‘Login’ button |
| **Expected Results** | Logged in and Restaurant Staff homepage displayed |
| **Actual Results** | Logged in and Restaurant Staff homepage displayed |
| **Pass/Fail** | **PASS** |

|  |  |
| --- | --- |
| **Test Case 20.2 – Login with invalid Restaurant Staff credentials** | |
| **Steps** | 1. Start application 2. Click ‘Staff’ button 3. Type in invalid credentials (user0 for both fields) 4. Select ‘Restaurant Staff’ in profile dropdown menu 5. Click ‘Login’ button |
| **Expected Results** | Failed Login |
| **Actual Results** | Failed Login |
| **Pass/Fail** | **PASS** |

|  |  |
| --- | --- |
| **Test Case 20.3 – Login with valid Restaurant Staff credentials but wrong profile** | |
| **Steps** | 1. Start application 2. Click ‘Staff’ button 3. Type in valid credentials (user1 for both fields) 4. Select wrong profile in the profile dropdown menu (User Admin selected) 5. Click ‘Login’ button |
| **Expected Results** | Failed Login |
| **Actual Results** | Failed Login |
| **Pass/Fail** | **PASS** |

**Functional Testing**

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Test Case | Tested Class | Tested Function |
| 20.4 | Test checkUserExistence() with valid Restaurant Staff credentials | Staff | checkUserExistence() |
| 20.5 | Test checkUserExistence() with invalid Restaurant Staff credentials | Staff | checkUserExistence() |
| 20.6 | Test checkUserExistence() with valid Restaurant Staff credentials but wrong profile | Staff | checkUserExistence() |

|  |  |
| --- | --- |
| **Test Case 20.4 - Test checkUserExistence() with valid Restaurant Staff credentials** | |
| **Expected Results** | Function returns true |
| **Actual Results** | Function returns true |
| **Pass/Fail** | **PASS** |

|  |  |
| --- | --- |
| **Test Case 20.5 - Test checkUserExistence() with invalid Restaurant Staff credentials** | |
| **Expected Results** | Function returns false |
| **Actual Results** | Function returns false |
| **Pass/Fail** | **PASS** |

|  |  |
| --- | --- |
| **Test Case 20.6 - Test checkUserExistence() with valid Restaurant Staff credentials but wrong profile** | |
| **Expected Results** | Function returns false |
| **Actual Results** | Function returns false |
| **Pass/Fail** | **PASS** |

## User Story #21

As a Restaurant Staff, I want to logout so that other people can login and for security purposes

**Front End Testing**

|  |  |  |
| --- | --- | --- |
| **ID** | **Test Case** | **Purpose** |
| 21.1 | Log out from the Restaurant Staff account | Test if the restaurant staff can log out of the account |

|  |  |
| --- | --- |
| **Test Case 21.1 – Log out from the Restaurant Staff account** | |
| **Steps** | 1. While in the Restaurant Staff homepage, click the log out button |
| **Expected Results** | Logged out and returned to the login page |
| **Actual Results** | Logged out and returned to the login page |
| **Pass/Fail** | **PASS** |

## User Story #35

As a Restaurant Owner, I want to login to my account, so that I can view and manage the data.

**Front End Testing**

|  |  |  |
| --- | --- | --- |
| **ID** | **Test Case** | **Purpose** |
| 35.1 | Login with valid Restaurant Owner credentials | Test if restaurant owner can login with valid credentials |
| 35.2 | Login with invalid Restaurant Owner credentials | Test if restaurant owner can login without valid credentials |
| 35.3 | Login with valid Restaurant Owner credentials but wrong profile | Test if restaurant owner can login if choosing the wrong profile |

|  |  |
| --- | --- |
| **Test Case 35.1 – Login with valid credentials** | |
| **Steps** | 1. Start application 2. Click ‘Staff’ button 3. Type in valid credentials (owner1 for both fields) 4. Select ‘Restaurant Owner’ in profile dropdown menu 5. Click ‘Login’ button |
| **Expected Results** | Logged in and Restaurant Owner homepage displayed |
| **Actual Results** | Logged in and Restaurant Owner homepage displayed |
| **Pass/Fail** | **PASS** |

|  |  |
| --- | --- |
| **Test Case 35.2 – Login with invalid credentials** | |
| **Steps** | 1. Start application 2. Click ‘Staff’ button 3. Type in invalid credentials (owner0 for both fields) 4. Select ‘Restaurant Owner’ in profile dropdown menu 5. Click ‘Login’ button |
| **Expected Results** | Failed Login |
| **Actual Results** | Failed Login |
| **Pass/Fail** | **PASS** |

|  |  |
| --- | --- |
| **Test Case 35.3 – Login with valid credentials but wrong profile** | |
| **Steps** | 1. Start application 2. Click ‘Staff’ button 3. Type in valid credentials (owner1 for both fields) 4. Select wrong profile in the profile dropdown menu (User Admin selected) 5. Click ‘Login’ button |
| **Expected Results** | Failed Login |
| **Actual Results** | Failed Login |
| **Pass/Fail** | **PASS** |

**Functional Testing**

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Test Case | Tested Class | Tested Function |
| 35.4 | Test checkUserExistence() with valid Restaurant Owner credentials | Staff | checkUserExistence() |
| 35.5 | Test checkUserExistence() with invalid Restaurant Owner credentials | Staff | checkUserExistence() |
| 35.6 | Test checkUserExistence() with valid Restaurant Owner credentials but wrong profile | Staff | checkUserExistence() |

|  |  |
| --- | --- |
| **Test Case 35.4 - Test checkUserExistence() with valid Restaurant Owner credentials** | |
| **Expected Results** | Function returns true |
| **Actual Results** | Function returns true |
| **Pass/Fail** | **PASS** |

|  |  |
| --- | --- |
| **Test Case 35.5 - Test checkUserExistence() with invalid Restaurant Owner credentials** | |
| **Expected Results** | Function returns false |
| **Actual Results** | Function returns false |
| **Pass/Fail** | **PASS** |

|  |  |
| --- | --- |
| **Test Case 35.6 - Test checkUserExistence() with valid Restaurant Owner credentials but wrong profile** | |
| **Expected Results** | Function returns false |
| **Actual Results** | Function returns false |
| **Pass/Fail** | **PASS** |

## User Story #36

As a Restaurant Owner, I want to logout of my account, so that other people can login and for security purposes.

**Front End Testing**

|  |  |  |
| --- | --- | --- |
| **ID** | **Test Case** | **Purpose** |
| 36.1 | Log out from the Restaurant Owner account | Test if the restaurant owner can log out of the account |

|  |  |
| --- | --- |
| **Test Case 36.1 – Log out from the Restaurant Owner account** | |
| **Steps** | 1. While in the Restaurant Owner homepage, click the log out button |
| **Expected Results** | Logged out and returned to the login page |
| **Actual Results** | Logged out and returned to the login page |
| **Pass/Fail** | **PASS** |

|  |  |  |
| --- | --- | --- |
| **ID** | **Test Case** | **Purpose** |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |

|  |  |
| --- | --- |
| **Test Case** | |
| **Steps** |  |
| **Expected Results** |  |
| **Actual Results** |  |
| **Pass/Fail** |  |

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Test Case | Tested Class | Tested Function |
|  |  |  |  |

|  |  |
| --- | --- |
| **Test Case** | |
| **Expected Results** |  |
| **Actual Results** |  |
| **Pass/Fail** |  |