

PES UNIVERSITY, BANGALORE

Department of Computer Science and Engineering

B. Tech (CSE) – 5th Semester – Aug-Dec 2024

**UE22CS341A - Software Engineering**

**Test Plan Documentation**

*PROJECT TITLE*

Team : Team 3

|  |  |
| --- | --- |
| PES2UG22CS042 | Ajaybir Singh Hari |
| PES2UG22CS011 | Aathil Nishad |

**Template of a Test case:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test  Case  ID | Description | Pre-  Conditions | Test Steps | Test Data | Expected Results | Actual Results | Test Result |
| UT\_01 | Validate successful login for staff | Database connection established | 1. Enter a valid username  (existing staff) | Username: "john.doe" | Login successful with "Welcome, john.doe" message displayed | Login successful with "Welcome, john.doe" message displayed | PASS |
| UT\_02 | Validate unsuccessful login for staff  (wrong username) | Database connection established | 1. Enter an invalid username | Username:  "invalid\_user" | Login fails with "Invalid username or password" message displayed | Login fails with  "Invalid username or password" message displayed | PASS |
| UT\_03 | Validate unsuccessful  login for staff  (wrong password) | Database connection established | 1. Enter a valid username  (existing staff) | Username: "john.doe" | Password:  "incorrect\_password" | Login fails with  "Invalid username or password" message displayed | Login fails with  "Invalid username or password" message displayed |
| UT\_04 | Validate login functionality for empty username | Database connection established | 1. Leave username field blank | Username: "" | Login fails with "Please fill in all fields" message displayed | Login fails with "Please fill in all fields" message displayed | PASS |

Page 1

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| UT\_05 | Validate login functionality for empty password | Database connection established | 1. Enter a valid username  (existing staff) | Username: "john.doe" | Password: "" | Login fails with "Please fill in all fields" message displayed | Login fails with "Please fill in all fields" message displayed |
| UT\_06 | Validate login functionality for empty role | Database connection established | 1. Enter a valid username  (existing staff) | Username: "john.doe" | Password: "password123" | Role: "" | Login fails with "Please fill in all fields" message displayed |
| UT\_07 | Validate database connection error handling |  | 1. Simulate a database  connection error (e.g., modify database credentials) | N/A | "Database Connection Error" message displayed | "Database  Connection  Error" message displayed | PASS |
| UT\_08 | Validate handling of unexpected errors | Database connection established | 1. Introduce a deliberate error in the login function | N/A | Informative error message displayed (e.g., "An unexpected error occurred. Please try again later.") | Informative error message displayed | PASS |

**Sample Test Case:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test  Case  ID | Description | Pre-  Conditions | Test Steps | Test Data | Expected Results | Actual Results | Test Result |
| IT\_01 | Validate successful retrieval of  menu items | Login as staff | 1. Call the  get\_menu\_items function | N/A | All available menu items are retrieved and displayed | All available menu items are retrieved and displayed | PASS |
| IT\_02 | Validate successful retrieval of  menu items by category | Login as staff | 1. Call the  get\_menu\_items function with a specific category | Category:  "Appetizers" | Only menu items in the "Appetizers" category are retrieved and displayed | Only menu items in the "Appetizers" category are retrieved and displayed | PASS |
| IT\_03 | Validate handling of staff get\_menu\_items unavailable function  menu items | Login as  staff | 1. Call the get\_menu\_items function | N/A | Only menu items with Available=True are retrieved and displayed | Only menu  items with Available=True are retrieved and displayed | PASS |
| IT\_04 | Validate successful update of menu item details | Login as staff | 1. Call the update\_menu\_item function with valid data for an existing item | Updated details (e.g., name, price) | Menu item details are updated in the database and reflected on the UI | Menu item details are updated in the database and reflected on the UI | PASS |
| IT\_05 | Validate handling of invalid menu item update data | Login as staff | 1. Call the update\_menu\_item function with invalid data (e.g., negative price) | N/A | Error message displayed indicating invalid data | Error message displayed indicating invalid data | PASS |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Test  Case  ID | Name of Module | Test Case  Description | Pre-  Conditions | Test Steps | Test Data | Expected Results | Actual Results | Test Result |
| UT-01 | User registration module | To test the login functionality | Access to Chrome Browser | 1: Navigate to http://www.demo.com  2: Enter Username and Password  3: Click Submit | User name: PESU Student.  Password : pes123 | Login should be successful with “welcome message” | Login successful with “welcome message” displayed | PASS |