



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

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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
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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