

SENG 275

SOFTWARE TESTING

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DEPT. OF ELECTRICAL AND COMPUTER
ENGINEERING



TEST CASE DOCUMENT



University
of Victoria

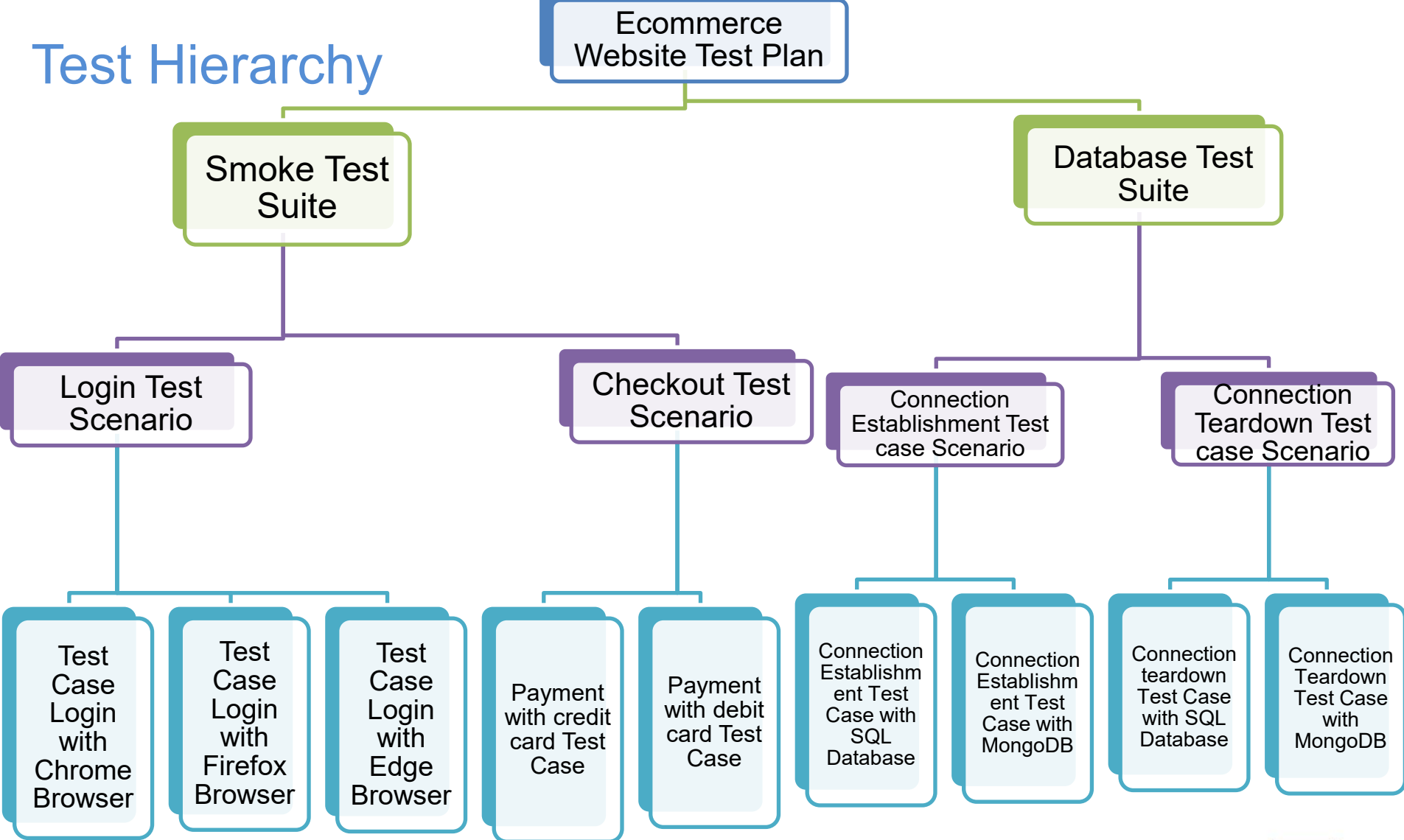


Test case and test scenario

- A **Test Suite** allows you to categorize test scenarios.
- A **Test Scenario** is a collective set of test cases which helps the testing team to determine the positive and negative characteristics of the project.
- Test Scenario gives a high-level idea of what we need to test.
- A **Test Case** is a set of actions executed to verify a particular feature or functionality or a non-functional aspect of your software application.



Test Hierarchy



Test Suite examples

- Build verification test suites
- Smoke test suite
- Functional verification test suite
- Integration test suite
- Regression test suite
- Security test suite
- Web services test suite
- Database test suite
- Load test suite
- Mobile test suite



Creating test cases for the scenario: Check Login Functionality

ALREADY REGISTERED?

Email address

Password

[Forgot your password?](#)



Sign in



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Steps

- Create a Test Case for the scenario: Check Login Functionality:
- Step 1) Write a simple test case to explain the scenario.

Test Case #	Test Case Description
1	Check response when valid email and password is entered

Step 2) In order to execute the test case, you would need Test Data.
Adding it below

Test Case #	Test Case Description	Test Data
1	Check response when valid email and password is entered	Email: navneet@email.com Password: OR789%%\$G



Step 3) In order to execute a test case, a tester needs to perform a specific set of actions. This is documented as below:

Test Case #	Test Case Description	Test Steps	Test Data
1	Check response when valid email and password is entered	1) Enter Email Address 2) Enter Password 3) Click Sign in	Email: navneet@email.com Password: OR789%%\$G

Step 4) The goal of test cases in software testing is to check behavior of the AUT for an expected result. This needs to be documented as below

Test Case #	Test Case Description	Test Data	Expected Result
1	Check response when valid email and password is entered	Email: navneet@email.com Password: OR789%%\$G	Login should be successful



- Step 5) During test execution time, the tester will check expected results against actual results and assign a pass or fail status

Test Case #	Test Case Description	Test Data	Expected Result	Actual Result	Pass/Fail
1	Check response when valid email and password is entered	Email: navneet@email.com Password: OR789%%\$G	Login should be successful	Login was successful	Pass

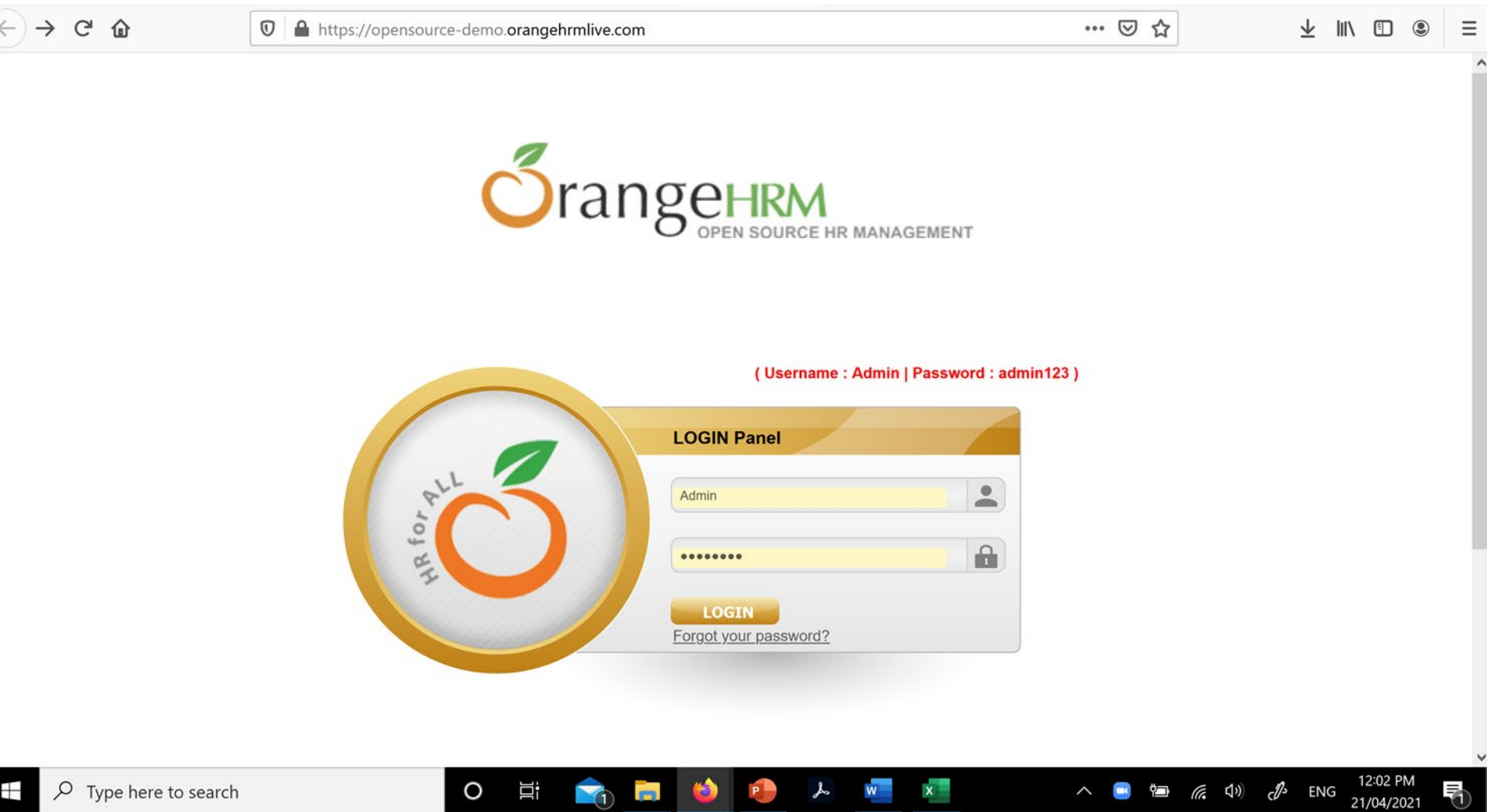


- Step 6) Apart from your test case one may have fields like, Pre – Conditions and post-conditions.
- For our test case, a **pre-condition** would be to have a **browser** installed to **have access to the site** under test.
- A test case may also include **Post - Conditions** which specifies anything that applies after the test case completes.
- For our test case, a postcondition would be **time & date of login is stored in the database**



Test Case ID	Test Scenario	Test Steps	Test Data	Expected Results	Actual Results	Pass/Fail
TC01	Check Customer Login with valid Data	1.Go to site http://navneet.com 2.Enter Email 3.Enter Password 4.Click Submit	Email: navneet@email.com Password: OR789%%\$G	User should Login into an application	As Expected	Pass
TC02	Check Customer Login with invalid Data	1.Go to site http://navneet.com 2.Enter Email 3.Enter Password 4.Click Submit	Email: wronguser@email.com Password: WRONG	User should not Login into an application	As Expected	Pass

We must have a unique name for each element.



Example

Test Scenario:

- Checking the functionality of Login button

Test Cases:

1. Click the button without entering user name and password.
2. Click the button only entering User name.
3. Click the button while entering wrong user name and wrong password.



DO IT YOURSELF



Do it yourself-I

- Go to the following website:
- <http://www.tutorialsninja.com/demo/>
- Create test suites, test scenarios and test cases for testing this application.
- For ex. My Account->Register. Create your account
- Login with your account
- Add To Cart 'Samsung Galaxy Tab 10.1'
- Write test cases for the 'Add To Cart' and 'Checkout' functionality



Do it yourself- II

- Go to the following website:
- <https://www.uvic.ca/>
- Create test suites, test scenarios and test cases for testing this application.
- For ex. My Account->Register. Create your account
- Login with your account
- Go to 'Brightspace' -> Spring 2023 SENG 275 A01/ A02 Course
- Write test cases for accessing the 'Course' functionality



Test Scenarios for e commerce

Test Scenario ID	Requirement Reference	Test Scenario Description	Priority	Number of Test Cases
TS_001	Application URL	Verify the working of Register Account Functionality	P0	
TS_002	Application URL	Verify the working of Login Functionality	P0	
TS_003	Application URL	Verify the working of Logout Functionality	P0	
TS_004	Application URL	Verify the working of Forgot Password Functionality	P2	
TS_005	Application URL	Verify the working of Search Functionality	P1	
TS_006	Application URL	Verify the working of Product Compare Functionality	P3	
TS_007	Application URL	Verify the Product Display Pages for different Product Types	P1	
TS_008	Application URL	Verify the Add to Cart Functionality	P0	
TS_009	Application URL	Verify the Wish List Functionality	P3	
TS_010	Application URL	Verify the Shopping Cart Functionality	P1	



Test Case Document

Test Case ID	Test Scenario	Test Case Title	Pre-requisites	Test Steps	Test Data	Expected Result (ER)	Actual Result	Priority	Result	Comments
TC_LF_001	(TS_001) Login Functionality	Verify the Login functionality for an existing Customer.	1. Open the Application URL in any supported browser	1. Enter the valid Account number and password for an existing customer 2. Click on the Login button	Account number: 4325 Password:1234	1. Customer should be able to Log in and should be navigated to his accounts page.	1. Customer was able to Log in and was navigated to his accounts page.	P1	PASS	
TC_LF_002	(TS_001) Login Functionality	Verify the Login functionality for a Manager.	1. Open the Application URL in any supported browser	1. Enter the valid Account number and password for a Manager 2. Click on the Login button	Account number: 1987 Password:4576	1. Manager should be able to Log in and should be navigated to his accounts page. 2. He should be able to login to the account of any customer and also to his own account.	1. Manager was able to Log in and was navigated to his accounts page. 2. He was able to login to the account of any customer and also to his own account.	P1	PASS	
TC_BE_001	(TS_001) Balance Enquiry Functionality	Verify Balance Enquiry functionality for Customer	1. Customer should be logged in with valid credentials 2. Customer should have navigated to the 'Balance Enquiry' page	1. Click on the 'Check Balance' button	Not Applicable	1.Customer should be able to check balance of his own account(one or multiple)	1.Customer was be able to check balance of his own account(one or multiple)	P2	PASS	
TC_BE_002	(TS_001) Balance Enquiry Functionality	Verify Balance Enquiry functionality for Manager	1. Manager should be logged in with valid credentials 2. Manager should have navigated to the 'Balance Enquiry' page	1. Click on the 'Check Balance' button	Not Applicable	1.Manager should be able to check balance of his own account(one or multiple) or any Customer's account(one or multiple)	1.Manager was able to check balance of his own account(one or multiple) or any Customer's account(one or multiple)	P2	PASS	
TC_FT_001	(TS_001) Fund Transfer Functionality	Verify Fund Transfer functionality for Customer	1. Customer should be logged in with valid credentials 2. Customer should have navigated to the 'Fund Transfer' page	1. Click on 'Fund Transfer' button. 2. Give destination account details and amount of funds to be transferred.	1. Account details, funds for destination account: AcNo:1234 Funds:5000CAD	1. Customer should be able to transfer funds from his own account to any destination account.	1. Customer was able to transfer funds from his own account to any destination account.	P2	PASS	
TC_FT_002	(TS_001) Fund Transfer Functionality	Verify Fund Transfer functionality for Manager	1. Manager should be logged in with valid credentials 2. Manager should have navigated to the 'Fund Transfer' page	1. Click on 'Fund Transfer' button. 2. Give destination account details and amount of funds to be transferred.	1. Account details, funds for destination account: AcNo:4563 Funds:2900CAD	1. Manager should be able to transfer funds from any source bank account to destination account	1. Manager was able to transfer funds from any source bank account to destination account	P2	FAIL	Failed due to defect TD_001. Manager was not given required authorization.

