

Introduction to Software Engineering

Working Software

The student team is required to complete the **Working Software** documentation for the assigned course project, following the attached template.



Software Engineering Department
Faculty of Information and Technology
University of Science

Table of Contents

Objectives	1
1 Member Contribution Assessment	2
2 Automated Testing	3
2.1 U001-2: Authentication and Access Control	3
2.2 U011-11: Manage Shopping Cart	7
3 Working Software	11
4 Project Presentation	12

Automated Testing and Working Software

Objectives

This document focus on the following topics:

- ✓ Completing the Automated Testing & Working Software document with the following sections:
 - Automated Testing
 - Working Software

1

Member Contribution Assessment

ID	Name	Contribution (%)	Signature
23127128	Nguyễn Thành Tiến	100%	
23127157	Nguyễn Hoàng Gia Bảo	100%	
23127184	Lê Phạm Kiều Duyên	100%	
23127396	Lương Linh Khôi	100%	

2 Automated Testing

2.1 U001-2: Authentication and Access Control

Test case	Login successfully
Test script	<pre>import static com.kms.katalon.core.checkpoint.CheckpointFactory.findCheckpoint import static com.kms.katalon.core.testcase.TestCaseFactory.findTestCase import static com.kms.katalon.coretestdata.TestDataFactory.findTestData import static com.kms.katalon.core.testobject.ObjectRepository.findTestObject import static com.kms.katalon.core.testobject.ObjectRepository.findWindowsObject import com.kms.katalon.core.checkpoint.Checkpoint as Checkpoint import com.kms.katalon.core.cucumber.keyword.CucumberBuiltinKeywords as CucumberKW import com.kms.katalon.core.mobile.keyword.MobileBuiltInKeywords as Mobile import com.kms.katalon.core.model.FailureHandling as FailureHandling import com.kms.katalon.core.testcase.TestCase as TestCase import com.kms.katalon.coretestdata.TestData as TestData import com.kms.katalon.core.testng.keyword.TestNGBuiltInKeywords as TestNGKW import com.kms.katalon.core.testobject.TestObject as TestObject import com.kms.katalon.core.webservice.keyword.WSBuiltInKeywords as WS import com.kms.katalon.core.webui.keyword.WebUiBuiltInKeywords as WebUI import com.kms.katalon.core.windows.keyword.WindowsBuiltInKeywords as Windows import internal.GlobalVariable as GlobalVariable import org.openqa.selenium.Keys as Keys WebUI.openBrowser(") WebUI.navigateToUrl('https://sweetiebakery-1.onrender.com/') WebUI.click(findTestObject('Object Repository/Page_SweetieBakery/button_ng_nhp')) WebUI.setText(findTestObject('Object Repository/Page_SweetieBakery/input_UsernameEmail_email'),</pre>

	<p>'luongkhoi3456@gmail.com')</p> <p>WebUI.setEncryptedText(findTestObject('Object Repository/Page_SweetieBakery/input_Password_password'), 'aeHFOx8jV/A=')</p> <p>WebUI.click(findTestObject('Object Repository/Page_SweetieBakery/button_Login'))</p> <p>WebUI.delay(2)</p> <p>WebUI.verifyTextPresent('Đăng nhập thành công', false)</p>
Test result	PASSED

Test case	Login failed with wrong email
Test script	<pre>import static com.kms.katalon.core.checkpoint.CheckpointFactory.findCheckpoint import static com.kms.katalon.core.testcase.TestCaseFactory.findTestCase import static com.kms.katalon.coretestdata.TestDataFactory.findTestData import static com.kms.katalon.core.testobject.ObjectRepository.findTestObject import static com.kms.katalon.core.testobject.ObjectRepository.findWindowsObject import com.kms.katalon.core.checkpoint.Checkpoint as Checkpoint import com.kms.katalon.core.cucumber.keyword.CucumberBuiltinKeywords as CucumberKW import com.kms.katalon.core.mobile.keyword.MobileBuiltInKeywords as Mobile import com.kms.katalon.core.model.FailureHandling as FailureHandling import com.kms.katalon.core.testcase.TestCase as TestCase import com.kms.katalon.coretestdata.TestData as TestData import com.kms.katalon.core.testng.keyword.TestNGBuiltInKeywords as TestNGKW import com.kms.katalon.core.testobject.TestObject as TestObject import com.kms.katalon.core.webservice.keyword.WSBuiltInKeywords as WS import com.kms.katalon.core.webui.keyword.WebUiBuiltInKeywords as WebUI import com.kms.katalon.core.windows.keyword.WindowsBuiltInKeywords as Windows import internal.GlobalVariable as GlobalVariable import org.openqa.selenium.Keys as Keys WebUI.openBrowser("")</pre>

	<pre> WebUI.navigateToUrl('https://sweetiebakery-1.onrender.com/') WebUI.click(findTestObject('Object Repository/Page_SweetieBakery/button_ng_nhp')) WebUI.setText(findTestObject('Object Repository/Page_SweetieBakery/input_UsernameEmail_email'), 'wrongemail@gmail.com') WebUI.setEncryptedText(findTestObject('Object Repository/Page_SweetieBakery/input_Password_password'), 'aeHFOx8jV/A=') WebUI.click(findTestObject('Object Repository/Page_SweetieBakery/button_Login')) WebUI.delay(2) WebUI.verifyTextPresent('Email hoặc mật khẩu không đúng', false) </pre>
Test result	PASSED

Test case	Login failed with wrong password
Test script	<pre> import static com.kms.katalon.core.checkpoint.CheckpointFactory.findCheckpoint import static com.kms.katalon.core.testcase.TestCaseFactory.findTestCase import static com.kms.katalon.coretestdata.TestDataFactory.findTestData import static com.kms.katalon.core.testobject.ObjectRepository.findTestObject import static com.kms.katalon.core.testobject.ObjectRepository.findWindowsObject import com.kms.katalon.core.checkpoint.Checkpoint as Checkpoint import com.kms.katalon.core.cucumber.keyword.CucumberBuiltinKeywords as CucumberKW import com.kms.katalon.core.mobile.keyword.MobileBuiltInKeywords as Mobile import com.kms.katalon.core.model.FailureHandling as FailureHandling import com.kms.katalon.core.testcase.TestCase as TestCase import com.kms.katalon.coretestdata.TestData as TestData import com.kms.katalon.core.testng.keyword.TestNGBuiltinKeywords as </pre>

	<pre> TestNGKW import com.kms.katalon.core.testobject.TestObject as TestObject import com.kms.katalon.core.webservice.keyword.WSBuiltInKeywords as WS import com.kms.katalon.core.webui.keyword.WebUiBuiltInKeywords as WebUI import com.kms.katalon.core.windows.keyword.WindowsBuiltinKeywords as Windows import internal.GlobalVariable as GlobalVariable import org.openqa.selenium.Keys as Keys WebUI.openBrowser(") WebUI.navigateToUrl('https://sweetiebakery-1.onrender.com/') WebUI.click(findTestObject('Object Repository/Page_SweetieBakery/button_ng nhp')) WebUI.setText(findTestObject('Object Repository/Page_SweetieBakery/input_UsernameEmail_email'), 'luongkhoi3456@gmail.com') WebUI.setEncryptedText(findTestObject('Object Repository/Page_SweetieBakery/input_Password_password'), 'ifTZcph1FO93SVr0dZvNUw==') WebUI.click(findTestObject('Object Repository/Page_SweetieBakery/button_Login')) WebUI.delay(2) WebUI.verifyTextPresent('Email hoặc mật khẩu không đúng', false) </pre>
Test result	PASSED

2.2 U011-11: Manage Shopping Cart

Test case	Add one item to shopping cart successfully
Test script	<pre> import static com.kms.katalon.core.checkpoint.CheckpointFactory.findCheckpoint import static com.kms.katalon.core.testcase.TestCaseFactory.findTestCase import static com.kms.katalon.coretestdata.TestDataFactory.findTestData import static com.kms.katalon.core.testobject.ObjectRepository.findTestObject import static com.kms.katalon.core.testobject.ObjectRepository.findWindowsObject import com.kms.katalon.core.checkpoint.Checkpoint as Checkpoint import com.kms.katalon.core.cucumber.keyword.CucumberBuiltinKeywords as CucumberKW import com.kms.katalon.core.mobile.keyword.MobileBuiltInKeywords as Mobile import com.kms.katalon.core.model.FailureHandling as FailureHandling import com.kms.katalon.core.testcase.TestCase as TestCase import com.kms.katalon.coretestdata.TestData as TestData import com.kms.katalon.core.testng.keyword.TestNGBuiltinKeywords as TestNGKW import com.kms.katalon.core.testobject.TestObject as TestObject import com.kms.katalon.core.webservice.keyword.WSBuiltInKeywords as WS import com.kms.katalon.core.webui.keyword.WebUiBuiltInKeywords as WebUI import com.kms.katalon.core.windows.keyword.WindowsBuiltInKeywords as Windows import internal.GlobalVariable as GlobalVariable import org.openqa.selenium.Keys as Keys WebUI.openBrowser(") WebUI.navigateToUrl('https://sweetiebakery-1.onrender.com/') WebUI.click(findTestObject('Object Repository/Page_SweetieBakery/button_Thm vo gi')) WebUI.verifyTextPresent('Đã thêm vào giỏ hàng', false) </pre>
Test result	PASSED

Test case	Add multiple items to shopping cart successfully
Test script	<pre> import static com.kms.katalon.core.checkpoint.CheckpointFactory.findCheckpoint import static com.kms.katalon.core.testcase.TestCaseFactory.findTestCase import static com.kms.katalon.coretestdata.TestDataFactory.findTestData import static com.kms.katalon.core.testobject.ObjectRepository.findTestObject import static com.kms.katalon.core.testobject.ObjectRepository.findWindowsObject import com.kms.katalon.core.checkpoint.Checkpoint as Checkpoint import com.kms.katalon.core.cucumber.keyword.CucumberBuiltinKeywords as CucumberKW import com.kms.katalon.core.mobile.keyword.MobileBuiltInKeywords as Mobile import com.kms.katalon.core.model.FailureHandling as FailureHandling import com.kms.katalon.core.testcase.TestCase as TestCase import com.kms.katalon.coretestdata.TestData as TestData import com.kms.katalon.core.testng.keyword.TestNGBuiltInKeywords as TestNGKW import com.kms.katalon.core.testobject.TestObject as TestObject import com.kms.katalon.core.webservice.keyword.WSBuiltInKeywords as WS import com.kms.katalon.core.webui.keyword.WebUiBuiltInKeywords as WebUI import com.kms.katalon.core.windows.keyword.WindowsBuiltInKeywords as Windows import internal.GlobalVariable as GlobalVariable import org.openqa.selenium.Keys as Keys WebUI.openBrowser(") WebUI.navigateToUrl('https://sweetiebakery-1.onrender.com/') WebUI.click(findTestObject('Object Repository/Page_SweetieBakery/button_Thêm vào giỏ')) WebUI.verifyTextPresent('Đã thêm vào giỏ hàng', false) WebUI.click(findTestObject('Object Repository/Page_SweetieBakery/button_Thêm vào giỏ_1')) WebUI.verifyTextPresent('Đã thêm vào giỏ hàng', false) WebUI.click(findTestObject('Object Repository/Page_SweetieBakery/button_Thêm vào giỏ_2')) WebUI.verifyTextPresent('Đã thêm vào giỏ hàng', false) </pre>
Test result	PASSED

Test case	Remove one item to shopping cart successfully
Test script	<pre> import static com.kms.katalon.core.checkpoint.CheckpointFactory.findCheckpoint import static com.kms.katalon.core.testcase.TestCaseFactory.findTestCase import static com.kms.katalon.coretestdata.TestDataFactory.findTestData import static com.kms.katalon.core.testobject.ObjectRepository.findTestObject import static com.kms.katalon.core.testobject.ObjectRepository.findWindowsObject import com.kms.katalon.core.checkpoint.Checkpoint as Checkpoint import com.kms.katalon.core.cucumber.keyword.CucumberBuiltinKeywords as CucumberKW import com.kms.katalon.core.mobile.keyword.MobileBuiltInKeywords as Mobile import com.kms.katalon.core.model.FailureHandling as FailureHandling import com.kms.katalon.core.testcase.TestCase as TestCase import com.kms.katalon.coretestdata.TestData as TestData import com.kms.katalon.core.testng.keyword.TestNGBuiltInKeywords as TestNGKW import com.kms.katalon.core.testobject.TestObject as TestObject import com.kms.katalon.core.webservice.keyword.WSBuiltInKeywords as WS import com.kms.katalon.core.webui.keyword.WebUiBuiltInKeywords as WebUI import com.kms.katalon.core.windows.keyword.WindowsBuiltInKeywords as Windows import internal.GlobalVariable as GlobalVariable import org.openqa.selenium.Keys as Keys WebUI.openBrowser(") WebUI.navigateToUrl('https://sweetiebakery-1.onrender.com/') WebUI.click(findTestObject('Object Repository/Page_SweetieBakery/button_Thm vo gi')) WebUI.click(findTestObject('Object Repository/Page_SweetieBakery/button_1')) WebUI.click(findTestObject('Object Repository/Page_SweetieBakery/svg_Bnh Kem Sinh Nht Hng_lucide lucide-tras_9bdb96')) WebUI.verifyTextNotPresent('Bánh Kem Sinh Nhật Hồng', false) </pre>
Test result	PASSED

Test case	Remove all items out of shopping cart successfully
Test script	<pre> import static com.kms.katalon.core.checkpoint.CheckpointFactory.findCheckpoint import static com.kms.katalon.core.testcase.TestCaseFactory.findTestCase import static com.kms.katalon.coretestdata.TestDataFactory.findTestData import static com.kms.katalon.core.testobject.ObjectRepository.findTestObject import static com.kms.katalon.core.testobject.ObjectRepository.findWindowsObject import com.kms.katalon.core.checkpoint.Checkpoint as Checkpoint import com.kms.katalon.core.cucumber.keyword.CucumberBuiltinKeywords as CucumberKW import com.kms.katalon.core.mobile.keyword.MobileBuiltInKeywords as Mobile import com.kms.katalon.core.model.FailureHandling as FailureHandling import com.kms.katalon.core.testcase.TestCase as TestCase import com.kms.katalon.coretestdata.TestData as TestData import com.kms.katalon.core.testng.keyword.TestNGBuiltInKeywords as TestNGKW import com.kms.katalon.core.testobject.TestObject as TestObject import com.kms.katalon.core.webservice.keyword.WSBuiltInKeywords as WS import com.kms.katalon.core.webui.keyword.WebUiBuiltInKeywords as WebUI import com.kms.katalon.core.windows.keyword.WindowsBuiltInKeywords as Windows import internal.GlobalVariable as GlobalVariable import org.openqa.selenium.Keys as Keys WebUI.openBrowser(") WebUI.navigateToUrl('https://sweetiebakery-1.onrender.com/') WebUI.click(findTestObject('Object Repository/Page_SweetieBakery/button_Thm vo gi')) WebUI.click(findTestObject('Object Repository/Page_SweetieBakery/button_Thm vo gi_1')) WebUI.click(findTestObject('Object Repository/Page_SweetieBakery/button_2')) WebUI.click(findTestObject('Object Repository/Page_SweetieBakery/svg_Bnh Kem Sinh Nht Hng_lucide lucide-tras_9bdb96')) WebUI.verifyTextNotPresent('Bánh Kem Sinh Nhật Hồng', false) WebUI.click(findTestObject('Object Repository/Page_SweetieBakery/svg_Bnh Kem Du Ti_lucide lucide-trash2 luci_ffc031')) WebUI.verifyTextNotPresent('Bánh Kem Dâu Tươi', false) WebUI.verifyTextPresent('Giỏ hàng trống', false) </pre>

Test result	PASSED
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3 Working Software

Link video demo:

<https://drive.google.com/drive/folders/1gFsOx2oEkaDp0Xz5GdPpV8O2MWQqGs3R?usp=sharing>

4 Project Presentation

Link presentation slide:

https://drive.google.com/file/d/1Vr8ZO1U0m-2m5AFFRwv11S-McAX-_hZ9/view?usp=sharing