



DIGITAL EGYPT PIONEERS INITIATIVE

SOFTWARE TESTING TRACK

GRADUATION PROJECT



Team Members

Maha Mansour

Shimaa El Sayed

Nardeen Saiid

Sally Magdy

Nour El Din Gamal

Index

- Manual testing
- API Testing
- Automation Testing
- Tools & Technologies Used
- GitHub Repo

Manual Testing



MANUAL TESTING FOR OPENCART.COM

Objective: Perform manual testing of a website.

Focus areas: Shopping Cart and Checkout functionality.

Goal: Ensure a smooth and bug-free user experience.

Browser: Chrome.

Platform: Desktop.

Tools: Excel (for test cases), Screenshots for evidence

MANUAL TESTING FOR OPENCART.COM

Test Cases	Description	Passed Cases	Failed Cases
31	Shopping Cart Page	29	2
54	Checkout Page	52	2

B	C	D	E	F	G	H	I
Section number		Section name	Checkout				
Test Condition (High level)	Test Case ID	Test Case title	Test Description	Test Pre-Conditions	Test data	Test Steps	Expected Test Result
Checkout (Header)	HP-H-CH-1	Open checkout page from homepage	verify checkout page by clicking from the home page	The user should be logged in	URL : https://demo.opencart.com/en-gb?route=common/home "Email: ""mohamed@teml.com"" Password: ""mohamed"""	1. Open URL 2. click on checkout from home page	checkout out page opens
	HP-H-CH-2	open checkout page from shopping cart homepage	verify checkout page by clicking checkout from drop list of shopping cart	The user should be logged in	URL : https://demo.opencart.com/en-gb?route=common/home "Email: ""mohamed@teml.com"" Password: ""mohamed"""	1. Open URL 2. click on shopping cart 3.click on checkout	checkout out page opens
	HP-H-CH-3	remove product	verify removing items from shopping cart header	should be shopping cart has items	URL : https://demo.opencart.com/en-gb?route=common/home "Email: ""mohamed@teml.com"" Password: ""mohamed"""	1. add items to shopping cart 2clicking on shopping cart header 3. clicking on " x" icon to remove product	the ptoduct item deleted
Checkout Page	HP-CK -1	open home from checkout page	verify home page by clicking " continue shopping " from the checkout page		URL : https://demo.opencart.com/en-gb?route=common/home	1. Open URL 2. click on checkout 3. click on countine shopping	home page opens
	HP-CK -2	open login page	verify login page by clicking on login link	The user shouldn't be logged in .	URL : https://demo.opencart.com/en-gb?route=common/home	1. Open URL 2. click on checkout 3. click on login	login page opens
	HP-CK -3	check fields of email	verify the abilty of entering data at the email field	The user shouldn't be logged in .	URL : https://demo.opencart.com/en-gb?route=common/home	1. Open URL 2. click on checkout 3. enter names with small letters , Symbols and numbers	the field accpet small letters , Symbols and numbers
	HP-CK -4	check shopping adress fields ..	verify the abilty of entering data at the	The user shouldn't be	URL : https://demo.opencart.com/en-gb?route=common/home	1. Open URL	the field accpet Capital s



Manual Testing (ALX2_SWD6_G2 / Group 3)

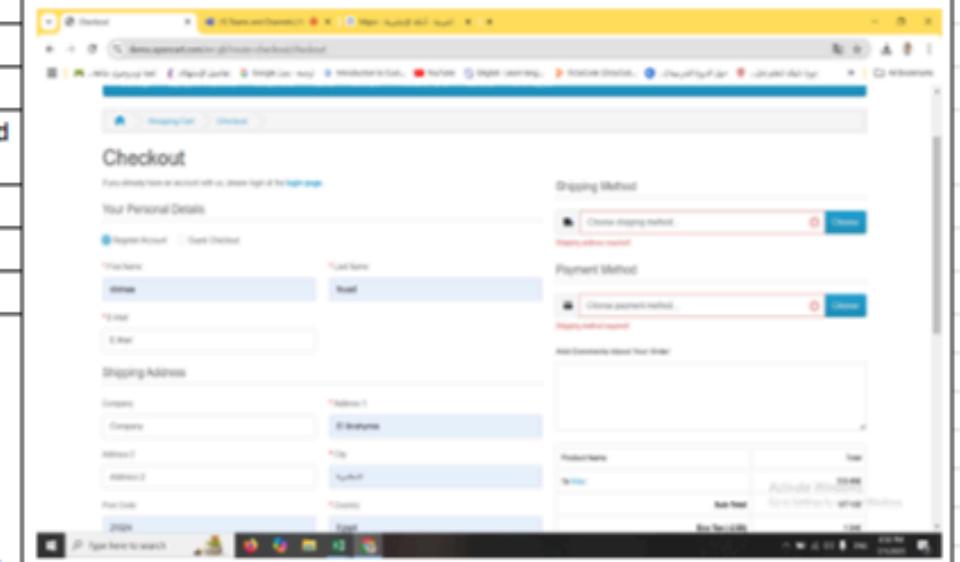
File Edit View Insert Format Data Tools Extensions Help

Search Back Forward Print Filter 65% | \$ % .0 .00 123 | Default... | - 10 + | B I ÷ A | Field

A1

fx

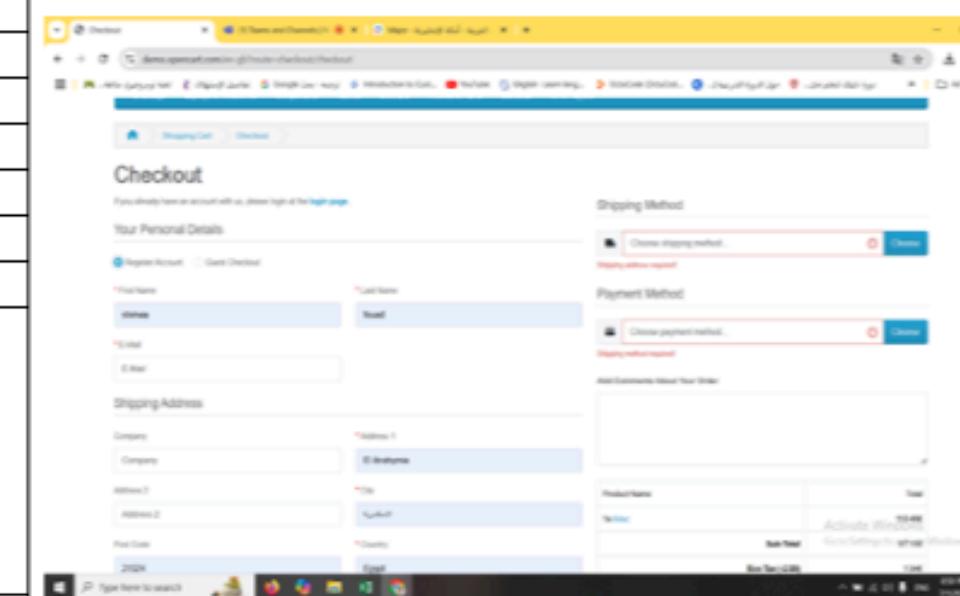
	A	B	C	D	E	F	G	H	I	J	K	L	M
1													
2	Bug ID												def-payment-03
3	Bug Title												the "choose" button in payment method is not clickable as guest (registered)
4	Bug Description												the " choose " button in payment method not clickable
5	Bug Type												function
6	Test Case ID												Tc-3
7	Environment												OS + Browser + Network + SW (verion)
8	Priority												high
9	Severity												major
10													

	Steps to Reproduce		Evidence	
12	1	open the opencart site		
13	2	add products in cart		
14	3	click on checkout button		
15	4	in checkout page you have to register account and fill the required fields		
16	5	then click on "choose" button in the payment method		
17	6			
	Expected Result			
19				
20				
21				
22				
23				
24				
25		when you click on choose button , the payment methods appear .		
	Actual Result			
27				
28				
29				
30				
31				
32				
33		the "choose" button on the payment method not clickable		



M21

fx

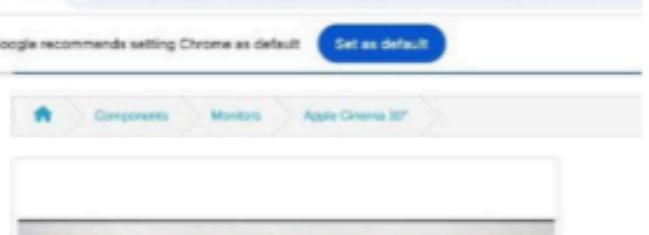


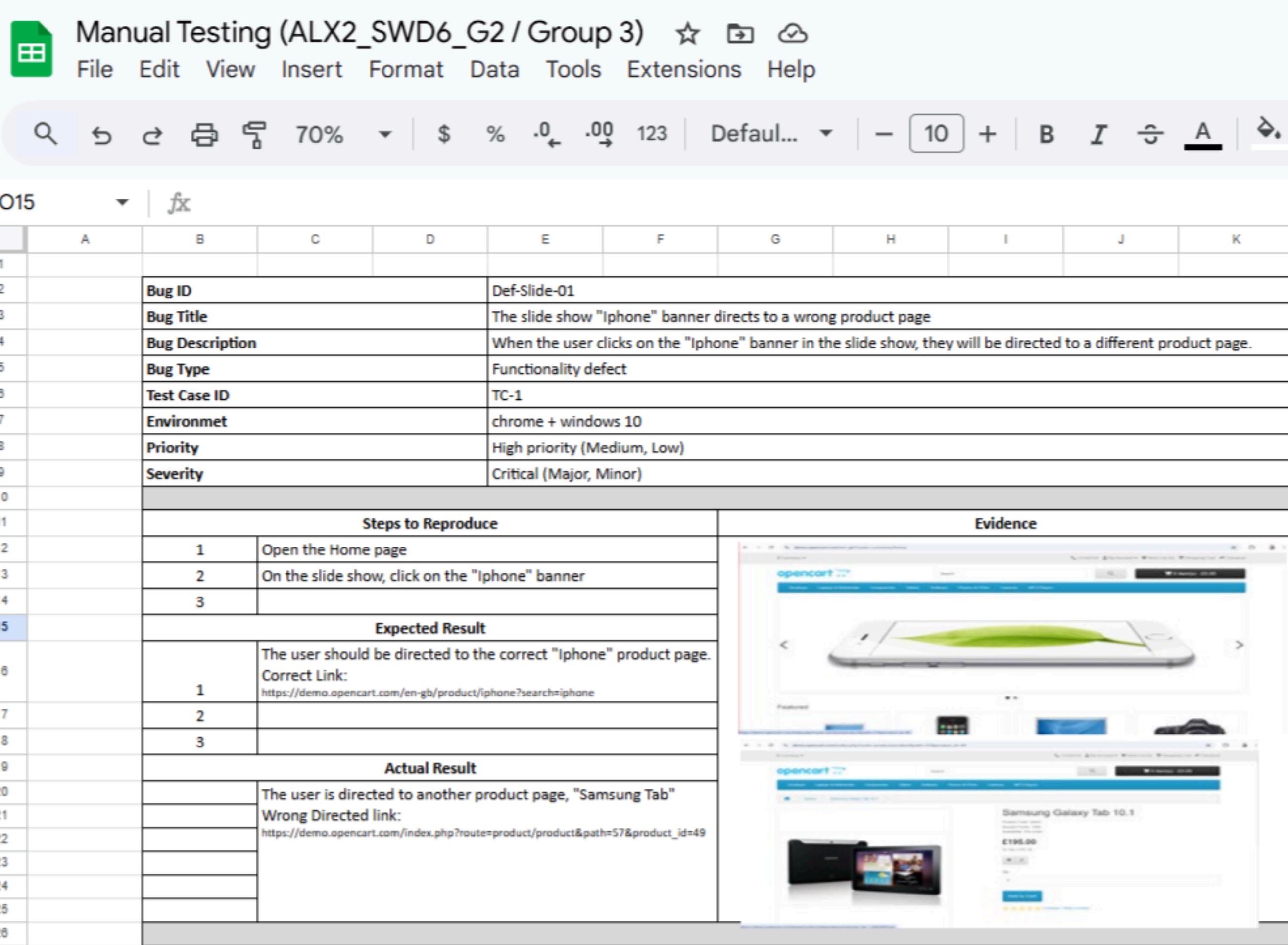
Manual Testing (ALX2_SWD6_G2 / Group 3)   

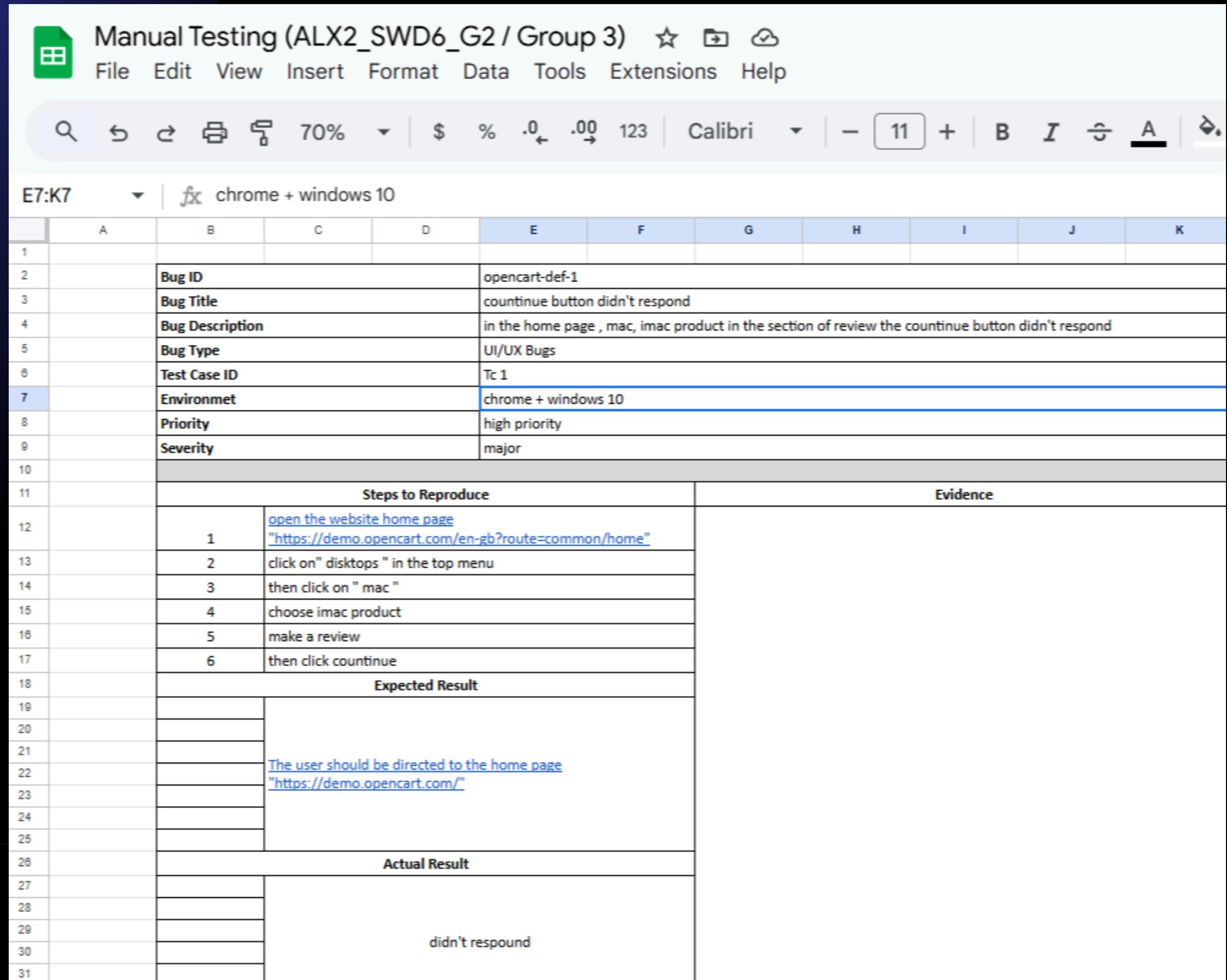
File Edit View Insert Format Data Tools Extensions Help

Search 65% \$ % .0 .00 123 Default - 10 + B I A

9

Steps to Reproduce		Evidence
1	open the website home page " https://demo.opencart.com/en-gb?route=common/home "	
2	click on " Components " in the top menu	
3	then click on " monitor "	
4	choose " Apple Cinema 30" " product	
5		
6		
Expected Result		
		the user should see the picture of " Apple Cinema 30" " product
Actual Result		
		the user see different picture isn't related to the " Apple Cinema 30" " product
		





API TESTING

- Stands for Application Programming Interface, is a set of protocols that enable different software components to communicate and transfer data.
- The primary goal of APIs is to enable data transfer and communication between various programming languages.

HTTP METHODS

HTTP Verb	CRUD	Success Status	Failure Status
GET	Read, Select	200 (OK)	
POST	Create, Insert	201 (Created)	400 (Bad Request) 401 (Unauthorized) 404 (Not Found)
PUT	Update/Replace	200 (OK)	405 (Method Not Allowed) 500 (Internal Server)
PATCH	Update/Modify	200 (OK)	
DELETE	Delete	200 (OK)	

Home Workspaces API Network

Search Postman Ctrl K

Invite Upgrade No environment

API Swagger New Import Overview Delete an order DEPI project Runner +

Collections + ★

Environments

Flows

History

Swagger0

DEPI project

GET Status

GET List of books

GET Get single book

POST submit an order

POST Api register

GET get all orders

GET get an order

PATCH Update an order

DEL Delete an order

QaCart

Restassured1

Swagger1

Swagger2

Swagger3

Swagger4

Run Sequence

Deselect All Select All Reset

Functional Performance

Choose how to run your collection

Run manually
Run this collection in the Collection Runner.

Schedule runs
Periodically run collection at a specified time on the Postman Cloud.

Automate runs via CLI
Configure CLI command to run on your build pipeline.

Run configuration

Iterations 1

Delay 0 ms

Test data file Only JSON and CSV files are accepted.

Select File

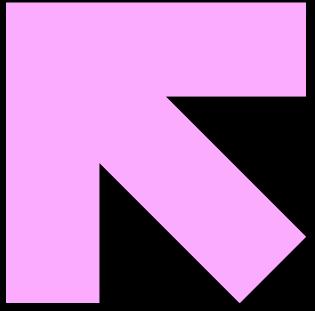
Advanced settings

Run DEPI project

This screenshot shows the Postman interface for running a collection named "DEPI project". The left sidebar lists various collections and environments. The main area displays the "Run Sequence" for the selected collection, which includes nine API requests: GET Status, GET List of books, GET Get single book, POST submit an order, POST Api register, GET get all orders, GET get an order, PATCH Update an order, and DEL Delete an order. The "Run Sequence" section has buttons for "Deselect All", "Select All", and "Reset". To the right, there are tabs for "Functional" and "Performance", with "Functional" being selected. Under "Choose how to run your collection", the "Run manually" option is selected. The "Run configuration" section allows setting iterations (1) and delay (0 ms). A "Test data file" input field is present, and a "Select File" button is available. A "Run DEPI project" button is at the bottom right. The top navigation bar includes links for Home, Workspaces, API Network, and various search and upgrade options.

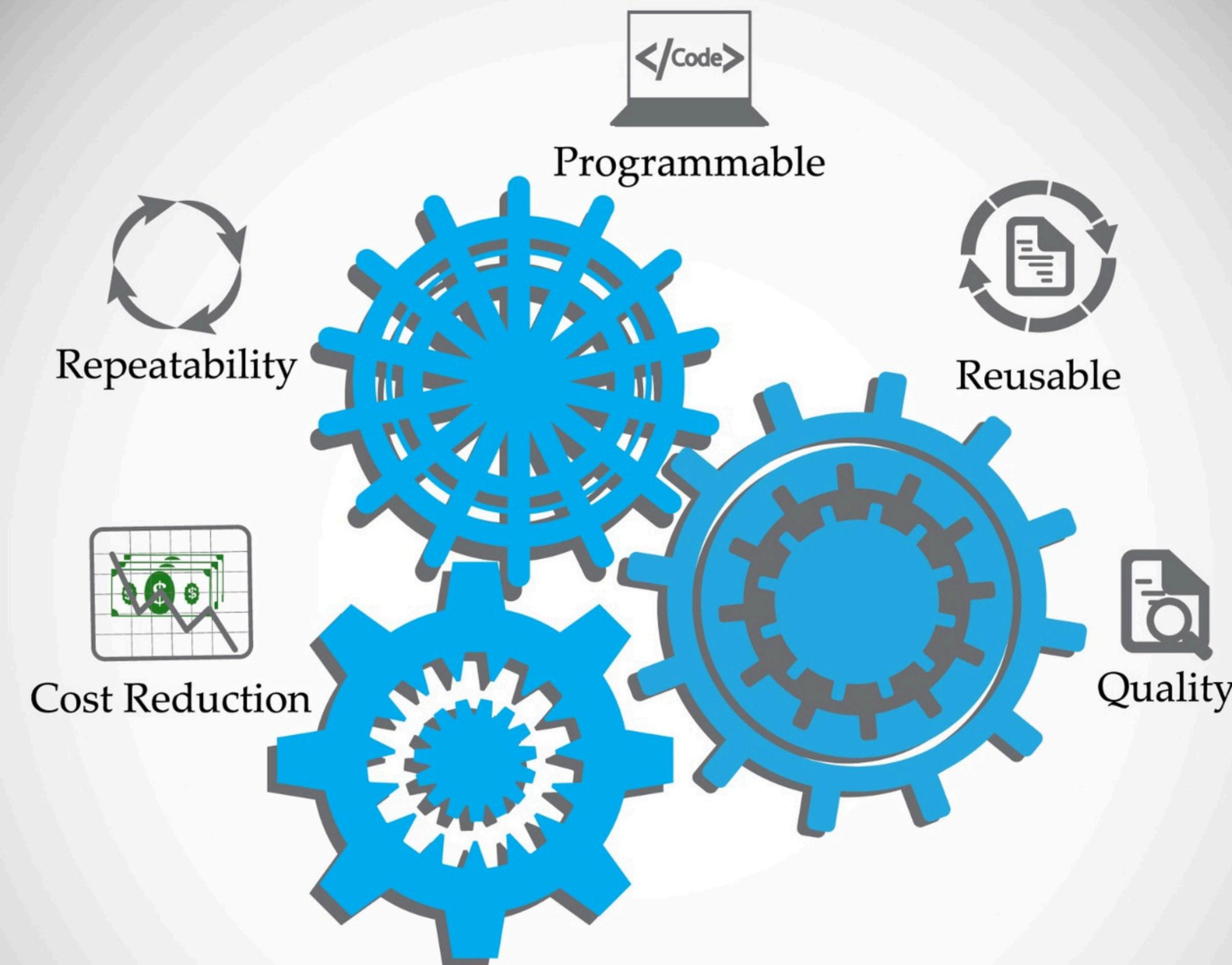
AUTOMATION TESTING

AUTOMATION
TESTING



Automation Testing is the process of using tools and scripts to automatically execute test cases, compare actual outcomes with expected results, and report defects. It speeds up testing, increases accuracy, and supports continuous integration and delivery.

AUTOMATION TESTING



AUTOMATION TESTING PROCESS

- 1 Feasibility Study And Define Scope of Automation
- 2 Test Tool Selection
- 3 Define Test Automation Framework and set up Infrastructure
- 4 Developing Automated Test Cases
- 5 Test Execution And Analysis
- 6 Automation Test Maintenance

OUR PROJECT TESTING STEPS

- Define Scope
Login, Cart, Checkout
- Tool Selection
Based on tech stack (we used Java + Selenium)
- Planning & Development
Framework (TestNG) + Scripts (test cases)
- Execution
Run tests
- Maintenance
Keep updating scripts as app evolves

OUR AUTOMATION TEST FEATURES

- User Login
- Add to Cart
- Checkout Process

The screenshot shows the IntelliJ IDEA interface with the following details:

- Project Structure:** The project is named "FinalProject" located at "C:\Users\Click Laptop\IdeaProjects\FinalProject". It contains ".idea", "src" (with "main" and "test" packages), and "resources". The "test/java" package contains "BaseTest", "CartTest", "CheckoutTest", and "LoginTest".
- Code Editor:** The "LoginTest.java" file is open, showing Java code for a Selenium-based test. It includes methods for invalid logins and teardown.
- Run Tab:** The "LoginTest" configuration is selected in the run tab.

```
public class LoginTest {
    public void InvalidLogin2() {
        driver.get("https://www.saucedemo.com/v1/");
        LoginPage Login=new LoginPage(driver);
        Login.EnterUserName("");
        Login.EnterPassword("");
        Login.ClickLoginButton();
        String expectedUrl = "https://www.saucedemo.com/v1/";
        Assert.assertEquals(Login.GetPageUrl(),expectedUrl);
    }
    @AfterMethod
    public void Tearsdown()
    {
        if(driver!=null)
            driver.quit();
    }
}
```

The "Run" tab displays the execution results of the "Default Suite" and "FinalProject" tests:

- Default Suite:** 14 sec 613 ms. Contains "FinalProject" (14 sec 613 ms) which contains "LoginTest" (14 sec 613 ms) with three test cases: "ValidLogin" (3 sec 594 ms), "InvalidLogin1" (2 sec 688 ms), and "InvalidLogin2" (2 sec 889 ms).
- Test Results:** Tests passed: 3 of 3 tests - 14 sec 613 ms.
- Log Output:** Shows command-line output including Selenium and SLF4J logs.

```
Tests passed: 3 of 3 tests - 14 sec 613 ms
"C:\Program Files\Java\jdk-23\bin\java.exe" ...
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
Apr 21, 2025 5:17:46 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find an exact match for CDP version 135, returning the closest version; found: 134; Please update to a Selenium version
Apr 21, 2025 5:17:51 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
```


Project ▾

- FinalProject C:\Users\Click Laptop\IdeaProjects\FinalProject
 - .idea
 - src
 - main
 - java
 - org.example
 - Pages
 - CartPage
 - CheckoutPage
 - HomePage
 - LoginPage
 - resources
 - test
 - java
 - BaseTest
 - CartTest
 - CheckoutTest
 - LoginTest

Main.java CheckoutTest.java LoginTest.java CartTest.java BaseTest.java

```
13  public class CartTest
54  // {
55  //     CartPage Cart=new CartPage(driver);
56  //     Cart.ClickCartIcon();
57  //     Cart.clickContinueshoppingButton();
58  //     Assert.assertEquals(Cart.CartPageURL(),"https://www.saucedemo.com/v1/inventory.html");
59  // }
60
61     @AfterMethod
62     public void Tearsdown()
63     {
64         if(driver!=null)
65             driver.quit();
66     }
67
68 }
69
70
71
```

Run CartTest ×

T

Default Suite 11 sec 768 ms

FinalProject 11 sec 768 ms

CartTest 11 sec 768 ms

TestCase1 417 ms

TestCase2 56 ms

Tests passed: 2 of 2 tests – 11 sec 768 ms

"C:\Program Files\Java\jdk-23\bin\java.exe" ...
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See <http://www.slf4j.org/codes.html#StaticLoggerBinder> for further details.
Apr 21, 2025 5:06:05 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find an exact match for CDP version 135, returning the closest version; found: 134; Please update to a Selenium version
Apr 21, 2025 5:06:11 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch

The screenshot shows the IntelliJ IDEA interface with the following details:

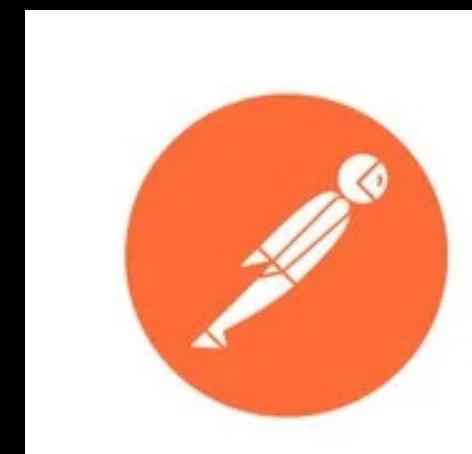
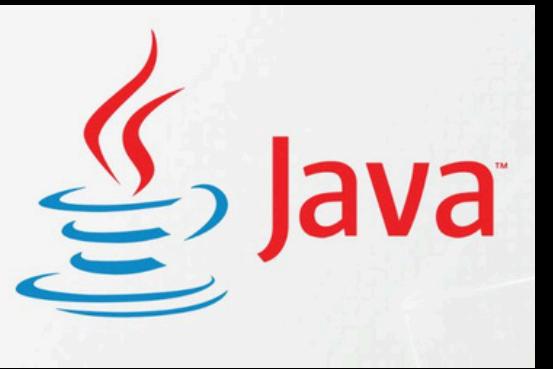
- Project Bar:** Shows "FinalProject" and "Version control".
- Toolbars:** Standard IntelliJ toolbars for file operations.
- Left Panel (Project View):** Shows the project structure:
 - FinalProject:** Contains .idea, src, test, target, .gitignore, and pom.xml.
 - src:** Contains main (java, resources) and test (java).
 - test.java:** Contains BaseTest, CartTest, CheckoutTest (selected), and LoginTest.
- Central Editor:** Displays the code for **CheckoutTest.java**. The code implements a `CheckoutTest` class that extends `base.BaseTest`. It contains two test methods: `TestCase1()` and `TestCase2()`. Both methods initialize `CheckoutPage` and `CartPage` objects and perform various interactions with them. The `TestCase2()` method also initializes a `LoginPage` object.
- Right Panel:** Shows code navigation and search features.

The screenshot shows the IntelliJ IDEA interface with the following details:

- Run Tab:** Shows a successful run of "CheckoutTest.TestCase2".
 - Default Suite:** 9 sec 399 ms.
 - FinalProject:** 9 sec 399 ms.
 - CheckoutTest:** 9 sec 399 ms.
 - TestCase2:** 2 sec 239 ms.
- Output Tab:** Displays the test results and log output.
 - Tests passed:** 1 of 1 test – 9 sec 399 ms.
 - Log Output:** Shows Java command, SLF4J loading issues, and Selenium version logs.
- Bottom Status Bar:** Shows the current file path: "FinalProject > src > test > java > CheckoutTest > TestCase2".
- Bottom Right:** Shows file statistics: 48:6 CRLF UTF-8 4 spaces.

TOOLS & TECHNOLOGIES USED

TEST CASES	GOOGLE SHEET
BUG TRACKING	GOOGLE SHEET
PROGRAMMING	JAVA
AUTOMATION	SELENIUM WEBDRIVER
FRAMEWORK	TESTNG
API TESTING	POSTMAN
VERSION CONTROL	GITHUB



TestNG

GITHUB REPO

<https://github.com/Group3-Testing-project/G3>

Thank You