Manual Testing

Task 1:

Student enrollment requires two actions:

1) Search for a school

School Name	School Code

School Type

National
International
Public

School Grade

KG1
KG2
1st Primary
...
3rd Secondary

Blue boxes are text fields.

Green boxes are lists.

All fields are required.

Press Search once you fill in the data.

2) Fill in student's information as follows:

National ID	Information Source

Full Name

First Name*	Second Name	Third Name

Fourth Name	Family Name*

English Name

English First Name*	English Second Name	English Third Name

English Fourth Name	English Family Name*

Birth Name	Birth Date*	Age

Birth City	English Birth City

Birth Country*	Gender*	Marital Status	Religion*

Religion Sector

Nationality*

Nationality Category*

Required fields are highlighted in *

Address, Phones/Emails: You fill in the data and press + to add a new record. You may fill in records as much as you need.

Business Rules:

- Student national ID must not be repeated.
- You may enroll one student at a time.

Write all possible <u>detailed</u> test cases for the above scenario – full coverage with efficiency.

You may use any template or tool.

Bonus Task:

Generate test cases using AI powered generative tool.

Code Assessment

1. An ATM program is developed to check card type as the ATM will accept payment with Master Cards only would you mention what is the best practice for this piece of code:

   If(Card.Type == "Premium")

          Return False;

   Else If(Card.Type == "Master")

          Accept Transaction;

   Else if(Card.Type == "Youth")

          Return False;

   Else

          Return Error;

2. Find the error in the following piece of code:

```
int n = 0;
While( n<10)
{
        int a =n+2;
        int b =a+n;
        System.out.println("a = "+a);
        n=5;
}
System.out.println("a = "+a);
System.out.println("b = "+b);
System.out.println("n = "+n);
```

API Manual Testing

You are given an API endpoint for a weather service that provides current weather information for a given city.

The API endpoint is GET /api/weather/{cityName}.

The task is to write at least 3 detailed test cases to verify the correctness of the API response.

Automation Testing

Web Automation

1. What are the different types of locators in Selenium?
2. What are the different types of Drivers available in WebDriver?
3. What are the different types of waits available in WebDriver?
4. What is the difference between driver.quite() and driver.close()?
5. An automation task is needed to simulate the creation of course scenarios at winjigo website.

   Scenario Steps:

   a. Open https://swinji.azurewebsites.net website.
   b. Sign in with username testregister@aaa.com and password "Wakram_123".
   c. Open courses page from left side navigation bar.
   d. Click on create course button
   e. Fill course basic info then click save
   f. Back to courses list page and assert that course title is displayed.

   Recommended Tools Cucumber, Selenium with Java, Maven and Junit or Selenium.

   Inputs and Outputs values must not be hard codded in the script.

   It will be added value in case the development of test scenario is written using page object model.

   Kindly, share a video and a report to explain your framework and code.

API Automation

Given the following API https://www.boredapi.com/api/activity

The api business is providing a person with an activity to do in case he/she is feeling bored and the suggestion each time is random activity.

A sample of response is like the following:

{

"activity":"Teach your dog a new trick",

"type":"relaxation",

"participants":1,

"price":0.05,

"link":"",

"key":"1668223",

"accessibility":0.15

}

You are required to write an automation task to call the API and verify its response code and response schema using rest assured, cucumber and java.

Kindly, share a video and a report to explain your framework and code.

API Automation

You are required to write an automation code to call the **1ˢᵗ API** and verify its response code and response schema using rest assured, and java.

Then use the ID from the **1ˢᵗ API** response to delete the created object using the **2ⁿᵈ API** and verify its status code and response body using rest assured, and java.

    1. **ADD Object API:**

URL: https://api.restful-api.dev/objects

Method: POST

Body:

```
{
    "name": "String",
    "data": {
        "year": int,
        "price": float,
        "CPU model": "String",
        "Hard disk size": " String "
    }
}
```

Response Code: 200

Response Body:

```
{
  "id": "7",
  "name": "Apple MacBook Pro 16",
  "data": {
    "year": 2019,
    "price": 1849.99,
    "CPU model": "Intel Core i9",
```

"Hard disk size": "1 TB"

  },

  "createdAt": "2022-11-21T20:06:23.986Z"

}

1. **DELETE Object API:**

URL: https://api.restful-api.dev/objects/objectId

Method: DELETE

Response Code: 200

Response Body:

{ "message": "Object with id = xxxx, has been deleted." }