Practical Exam

**Test Overview**

* **Duration:** 2 hours
* **Tools Required:** Visual Studio (or any C# IDE), Selenium WebDriver, GitHub (or similar repository), Excel/Google Sheets (for reports), any text editor.

**Task 1: Manual Testing Scenario**

**Objective:** Evaluating manual testing skills, attention to detail, and defect reporting.

**Instructions:**

1. You will be given a sample web application to test manually. This application can be a simple to-do list app or a demo e-commerce site.
2. Perform exploratory testing on the application and identify any defects.
3. Create a detailed bug report for each defect found.

**Sample To-Do List App:** Simple To-Do List App.html

**Expected Outcome:**

* To demonstrate ability to thoroughly test the application, identify defects, and create clear, concise, and detailed bug reports. The reports should include steps to reproduce, expected and actual results, severity, and any screenshots if necessary.

**Task 2: Automation Testing**

**Objective:** To develop automation scripts in C#.

**Instructions:**

1. Write an automation script to perform the following actions on a sample **loginform.html** page:
   * Open the browser and navigate to the page.
   * Locate the input fields (e.g., username, password) and enter data.
   * Submit the form.
   * Verify that the form was submitted successfully by checking for a confirmation message.

**Sample App:** Simple To-Do List App

**Expected Outcome:**

* The successfully develop a C# automation script that interacts with the HTML page, enters data, submits the form, and verifies the confirmation message.

### Task 3: Test Case Design

**Objective:** Assess the ability to design comprehensive test cases.

**Instructions:**

1. Design a set of manual test cases for a simple feature (e.g., user registration on a website).
2. Each test case should include test steps, expected results, and test data.

**Expected Outcome:**

* To provide well-structured and detailed test cases that cover various scenarios, including positive, negative, and edge cases.

### Task 4: Reporting and Metrics

**Objective:** Evaluate the ability to generate and interpret testing reports.

**Instructions:**

1. Using a provided set of test execution data (e.g., pass/fail status of test cases, defect count, severity distribution), create a summary test report.
2. Include key metrics such as test coverage, defect density, and any other relevant KPIs.

**Sample Data:**

* Total test cases: 50
* Test cases passed: 40
* Test cases failed: 10
* Defects found: 15 (High: 5, Medium: 7, Low: 3)

**Expected Outcome:**

* To produce a clear and concise test report that highlights key metrics, insights from the data, and any recommendations for improvement.

### Task 5: Leadership and Mentorship

**Objective:** Assess leadership and mentorship qualities.

**Instructions:**

1. You will be given a scenario where a junior QA team member is struggling with understanding a particular testing framework or concept.
2. Write a brief plan on how you would help the junior team member improve their skills and understanding. Include any steps, resources, or methods you would use.

**Expected Outcome:**

* To provide a thoughtful and structured plan that demonstrates their ability to mentor and guide junior team members. The plan should include actionable steps, recommended resources, and methods for continuous improvement.