Selenium C# Automation Testing Assessment

Problem Statement: **Duration: 3 Hrs.**

Automation testing is essential for ensuring that software applications work correctly and efficiently. Manual testing can take a lot of time and may lead to errors. To solve this problem, we need to create a digital solution that automates the testing process, making it quicker and more accurate.

Objective: Develop an Automation Testing Suite Using Page Object Model that allows users to:

- Create test cases using Selenium WebDriver in C# to automate interactions with the Orange HRMS Demo website.
    - (**https://opensource-demo.orangehrmlive.com/web/index.php/auth/login**)
- The test cases should include:
    - Logging in to the website
    - Go to Admin option and add a new employee or User

Assessment Tasks:

1. **Setup and Configuration:**
    - Install Visual Studio and set up a new C# project.
    - Install Selenium WebDriver and NUnit/MSTest packages.
    - Configure the project to use the Orange HRMS Demo website.
2. **Create Test Cases:**
    - Write a test case for the login functionality of the Orange HRMS Demo website.
    - Write a test case to add a new employee.
3. **Implement Test Framework:**
    - Set up a test framework using NUnit or MSTest.
    - Ensure the framework supports executing the test cases and reporting results.
4. **Execute Tests and Report Results:**
    - Run the test cases and verify the functionality of the Orange HRMS Demo website.
    - Generate reports for each test case execution, including status, execution time, and results.
5. **Enhance and Optimize:**
    - Optimize test cases for reusability and maintainability.
    - Ensure that the tests run efficiently and accurately across different environments.

Expected Deliverables:

- A Visual Studio project containing the Selenium WebDriver test cases written in C#.
- A test framework implemented using NUnit or MSTest.
- Test execution reports detailing the results of each test case.