Quality Assurance Project

# Assignment

This project aims to give you some experience implementing quality assurance practices. During your time at Conestoga, you would have had the opportunity to work on many web development projects in your courses. Now, you’ll take one of the projects you completed in a previous course and create a testing plan, including implementing some simple unit tests.

## 1. Site Description

Start by choosing a site from one of your previous projects. There are a few guidelines here. First, it should be a site that you worked on individually. Second, you’ll want it to be a website with some input to facilitate automated tests for it using the Selenium browser. Show your professor your website during the first project checkpoint.

Describe the website using the five categories discussed in class: User Personas, Domain, Business Priorities, Infrastructure, Architecture

## 2. User Flow and Test Cases

Choose five different features of your site. Thoroughly describe the feature, user flow, and a potential test case.

For the user flow, recall that this describes the “journey” a user takes while performing a function. For example, if the feature is “purchase an item,” the flow would include all the steps the user would need to take to perform this.

Describe a potential test plan for the test cases using the testing frameworks we discussed in class. For example, you might describe how you would test a login form using decision table testing or a grade calculator function using boundary value analysis. The plan should be thorough and explain how you would implement the test using manual testing techniques.

## 3. Automated Tests

Write three automated unit tests for your application. Combining automation (Selenium) with a unit testing framework (PyTest/unit test in Python or JUnit in Java) would be best. There are code examples from in-class using Python and with the textbook using Java. Describe the unit tests and which part of your application they are testing and include the scripts in your final upload.

# Submission Instructions

* Each student is to complete this assignment individually.
* Include your scripts and a Word document
* Your assignment must be submitted to eConestoga by the date/time stated in your Instructional Plan.
* Include a cover page with the following information:
  + Your full name
  + Student number
  + Course number