

Automation - Final Project

General Instructions:

- Your assignment should be a Python program
- Your assignment will use what we have learned so far (e.g. conditional statements, array, array built-in functions, and loop).
- You may also utilize the Internet as an extra source to help with your code. For example, you might need some useful built-in array functions, e.g. `shuffle()` if you use arrays to do this assignment. However, there are many correct ways to write a program. All roads lead to Rome.
- No excuse for late work.
- All identical work will result in zero points for all parties involved.
- Your instructor can help with the explanation of this assignment but won't help with debugging your code.

Instructions in detail:

🔗 Select **3-5 modules** or components from the website [Atid Store](#) or your Full Stack final project!!.

Examples of modules include:

- Homepage
- Product page
- Search functionality
- Add to Cart functionality

- Checkout functionality

Part II: Test Case & Test Execution

1. Design Test Cases:

Create a **Standard Test Design (STD)** document for each selected component.

- Test cases should include:

- Test Case ID
- Test Scenario
- Steps to Execute
- Expected Result
- Actual Result
- Status (Pass/Fail)

2. Execute Test Cases:

Execute the test cases for the selected components to ensure they behave as expected

Part II: Coding 😊

• Use the Page Object Model (POM):

- Implement your automation framework using the POM design pattern.

- **Python Coding Requirements:**
 - Your program should include:
 - Fundamentals of Python
 - Data types and variables
 - Conditional statements (e.g., if, elif, else)
 - Loops (e.g., for, while)
 - Functions (modular code structure)
 - Bonus: API testing (optional)
 - Bonus CI/CD (Jenkins, Github Action etc..)
- **Selenium Automation:**
 - Automate the selected components of the website using **Selenium WebDriver**.
 - Example tasks to automate:
 - Verify that the homepage loads successfully.
 - Search for a product and validate the search results.
 - Add a product to the cart and verify the cart contents.
 - Complete a checkout process (if applicable).

How to deliver?

- Deploy to Git

- Upload your code file to Engage before the deadline

You will get zero points

- If you miss the deadline for the assignment. No excuse!
- If you copy the other person's work.
- If you let other(s) copy your work.