

CPEN 321 Software Engineering Winter 2023

M6A: Initial Testing (Wednesday, November 8, 3pm PT)

This is a group assignment. This assignment will not be graded. However, **you will lose all marks** for M6 if you do not submit this assignment on time.

Please remember to submit your assignment starting at 2:40 pm.

Tasks:

- 1) Get yourself familiar with “M6_Testing.pdf” and reach out to TAs if you have any questions.
- 2) Pick one non-trivial interface that your back-end exposes to the front-end and design test cases for this interface. You will need to list all test cases for the interface and annotate each test case with information about its inputs, expected outputs, and expected behaviors, as in the example in “M6_Testing.pdf”, **PART I, Step 5.1**.
- 3) Pick three non-trivial use cases you will test. Define a front-end test scenario for one of them, as in the example in “M6_Testing.pdf”, **PART I, Step 6.2**.
 - You need to reach out to the TAs to confirm that the use cases you picked are indeed major.
- 4) Pick two non-functional requirements which you will verify automatically. Write a one-paragraph description of how you plan to verify each of the requirement are met.
 - You need to reach out to the TAs to confirm that the requirements that you picked are indeed major and the plan is well-defined.
- 5) **Submit** a PDF file that includes the following information:
 - The interface test design from item #2.
 - The use case test design from item #3.
 - The non-functional requirements verification plan from item #4.
- 6) If time permits, open “M6_Testing.pdf” and follow **SETUP, Steps 1-3** to set up Jest, Espresso, and GitHub Actions for your project.

Good luck!