**<E-Commerce Web Application For Selling Digital Products>**

**Test Plan**

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# **Test approaches:**

* Our group does a unit test to see if each component worked. We do not change our approach for different functionality. The point of these tests is to test the functional through automatic testing.
* We will also do an API test to check the integration of the components.
* In addition to functional correctness, we prioritized the user experience through usability testing. We tested the UI to confirm that no resources, such as images or content, were missing or displayed incorrectly. Furthermore, we assessed the ease of navigation and overall usability to ensure that the system was user-friendly and suitable for our target audience.
* As this is only a test plan, we will only test the functional, document the results and will not document any fixes that occurred.

# **Schedule and time frame:**

* From 12/8/2024 to 26/8/2024
* This time frame is due to the deadline of PA5.

# **Staffing:**

* Testers:
  + Nguyễn Kim Anh
  + Quách Trần Quán Vinh
* Documenters:
  + Nguyễn Kim Anh
  + Đinh Vũ Huân
  + Lê Bảo Giang

# **Tools:**

* Our group uses Jest to test as it is a JavaScript testing framework designed to ensure correctness of any JavaScript codebase which a lot of our code base is in.
* We also use Postman to test our API as we are developing a website that is an online store.

# **Test environment:**

* The base software elements are required in the test environment  are Visual Studio Code as IDE, Google Chrome, Firefox for run the web when testing, Postman for API testing. Moreover we leveraged several support tools to manage and document the testing process effectively like Google Sheets, Google Docs.

# **Strategies for testing:**

* Our group uses Jest to do automation testing as we are making a website. The area to test is each component individually and the test environment is an integrated development environment.
* Our group uses Postman to test the API for faults and errors.
* Testers will implement and execute the tests suites, analyze results and document them into an excel spreadsheet.