



COMP704 Research and Development Project

VN01 3D acupuncture healthcare data management and treatment system

Technical Testing Plan

Supervisor:

Dr Nhan Le Thi

Team Members:

21142643 Chuong Pham Dinh
21142377 Nhan Nguyen Cao
21142355 Tan Le Tran Ba
21142358 Trang Ho Ngoc Thao

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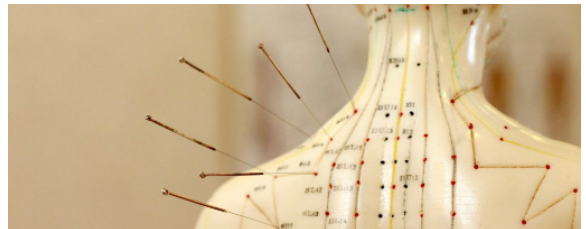


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DOCUMENT VERSION CONTROL

1. DOCUMENT INFORMATION

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1.0	27 Apr 2023 18:44	Summarize the testing plan for Technical Testing scope of the project	Nhan Nguyen Cao (21142377)

TECHNICAL TESTING PLAN

Technical Testing procedure for the project was led by the two Developers in the project, with consultants received from the Quality Engineer of the project. Different types of testing were covered for different sides of the project. In details, the types of technical testing, with the libraries or tools used for implementing the technical test cases, are as follows:

Table 1 - Technical Testing types and tools used

Side of code base	Type of testing	Tools / Frameworks / Libraries used
Front-end	Unit testing + Integration testing	Jest
	Automation testing	Puppeteer
Back-end	Unit testing	Jest

As discussed in the plan for implementing different Versions of the project, the types of testing were applied at different stages during the project. The Technical Testing plan for the project, including the schedule and details, is as follows:

Table 2 - Technitac testing plan

Side of code base	Type of testing	Sprint	Details
Front-end	Unit testing + Integration testing (Part 1)	Sprint 11	Unit testing (focus) and integration testing for static Front-end, during the implementation of layouts and components.
	Unit testing + Integration testing (Part 2)	Sprint 12 + 13	Unit testing and integration testing (focus) for the intergrated API calls from Front-end side of project.
	Automation testing	Sprint 14	End-to-end testing with Headless Chromium browser to test some flows that were not covered by unit tests and integration tests. Main focus: Interaction flows with manual control panel and authentication flows.
Back-end	Unit testing	Sprint 14	Unit testing to examine the function and execution for controllers and services of different modules of the Back-end side.