COMP704 Research and Development Project

VN01 3D acupuncture healthcare data management and treatment system

Project Requirements

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

Version: 1.0

Date: 19th October 2022
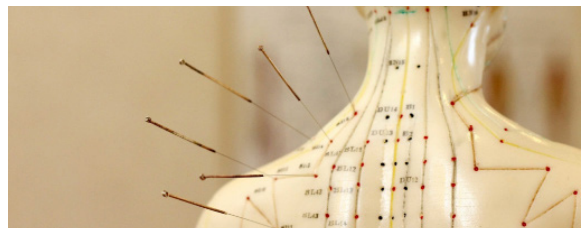
TABLE OF CONTENTS

DOCUMENT VERSION CONTROL

1. DOCUMENT INFORMATION

Document code	**PR**
Document title	**Project Requirements**
Version	**1.0**
Authors	**Nhan Nguyen Cao**
Distributed by	**Project VN01 team**
File name	**PR_Project Requirements_1.0.pdf**
Release definition	**Only released as a finished document**

2. DOCUMENT SIGN-OFF

ID	Member	Role	Signature	Timestamp
21142355	Tan Le Tran Ba	Project Manager		20 Oct 2022 11:15

3. DOCUMENT VERSIONS

Version	Timestamp	Description	Responsible members
1.0	19 Oct 2022 22:45	First version of the Scope Statement document for the project, defining the basic required sections.	**Nhan Nguyen Cao** *(21142377)*

I. PROJECT FUNCTIONAL REQUIREMENTS

Table 1 - Project Functional Requirements

No.	Functional requirement
1	The system should allow users to view the 3-D model of human body, with the acupuncture points marked.
2	The system should allow users to interact with the 3-D model with some basic options like spin, zoom-in, and zoom-out of the view space.
3	The system should allow users to view information about the acupuncture points, including the names, descriptions, and functionalities to the body, by clicking on the acupuncture points in the 3-D model.
4	The system should allow users to view the meridians on the 3-D model of the human body.
5	The system should allow users to view specific treatments for diseases with the acupuncture points included in the treatment marked on the 3-D model.
6	The system should allow users to choose and examine the combinations of acupuncture points for acupuncture treatment.
7	The system should allow users to input new medical acupuncture treatments with the combination of points included in the system.
8	The system should be able to visualize an inputted acupuncture treatment on the cut-off 3-D model of the human body.
9	The system should be able to recommend appropriate acupuncture treatment for a specific common disease selected by the user.

II. PROJECT NON-FUNCTIONAL REQUIREMENTS

Table 2 - Project's non-functional requirements

No.	Non-functional requirement
1	The system should be able to provide a user interface viewport for both desktop devices and mobile devices, allowing users to be able to access and use the system from different groups of devices.
2	The system should be able to render the 3-D model in no more than 30 seconds, from the time the rendering request is made by the user.
3	The system should be able to handle the requests for inputting data from the system or retrieving information within the system in no more than 5 seconds.
4	The system should be available for access for no less than 23 hours each day.
5	The system should be compatible with the newest versions of all common browsers, such as Google Chrome, Mozilla Firefox, Opera, Microsoft Edge, etc.
6	The system should be able to handle the features without consuming up to more than 1GB of RAM from the browser.