COMP704 Research and Development Project

VN01 **3D acupuncture healthcare data management and treatment system**

Project Requirements

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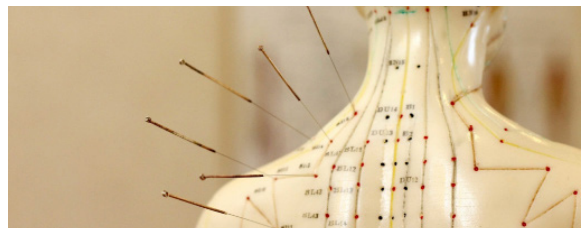
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Version	Timestamp	Description	Responsible members
1.0	19 Oct 2022 22:45	First version of the Scope Statement document for the project, defining the basic required sections.	**Nhan Nguyen Cao** *(21142377)*
2.0	27 Nov 2022 10:32	Updated list of requirements of the project, following the meeting with Specialist Consultants of the project.	**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.
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 the 12 standard meridians and 2 extraordinary meridians (Ren Meridian and Du Meridian) on the 3-D model of human body.
4	The system should allow users to view the acupuncture points marked on the meridians on the 3-D model of human body.
5	The system should allow users to view the information about the acupuncture points by clicking on them on the 3-D model of human body.
6	The system should allow users to view the information about the meridians by clicking on them on the 3-D model of human body.
7	The system should allow users to switch between the viewmode of two different types of 3-D model for human body: external anatomy model and internal anatomy model.
8	The system should allow administrators and authorized users to manage and insert, update the information of acupuncture points and meridians with a dashboard.
9	The system should allow users classified as students to save the acupuncture points or meridians to collections for reviewing.
10	The system should allow users classified as students to attempt quizzes on the acupuncture points and meridians.
11	The system should allow users classified as teachers to add notes to the acupuncture points or meridians, and save into collections for displaying during the lectures.

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.