



COMP704 Research and Development Project

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

# Project Requirements

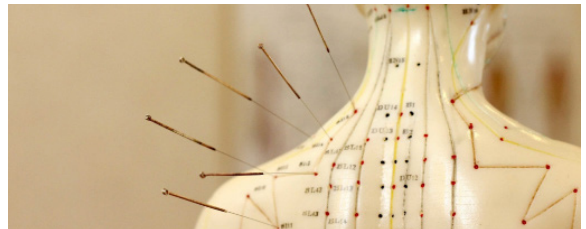
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## DOCUMENT VERSION CONTROL

### 1. DOCUMENT INFORMATION

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### 2. DOCUMENT SIGN-OFF

ID	Member	Role	Signature	Timestamp
21142355	Tan Le Tran Ba	Project Manager		21 Apr 2023 21:00

### 3. DOCUMENT VERSIONS

Version	Timestamp	Description	Responsible members
<b>1.0</b>	19 Oct 2022 22:45	First version of the Scope Statement document for the project, defining the basic required sections.	<b>Nhan Nguyen Cao</b> (21142377)
<b>2.0</b>	27 Nov 2022 10:32	Updated list of requirements of the project, following the meeting with Specialist Consultants of the project.	<b>Nhan Nguyen Cao</b> (21142377)
<b>2.1</b>	21 Apr 2023 15:25	Updated list of requirements based on the situation of the project in the second half.	<b>Nhan Nguyen Cao</b> (21142377)

# I. PROJECT FUNCTIONAL REQUIREMENTS

Table 1 - Project Functional Requirements

No.	Functional requirement
1	The system should provide all users with basic authentication features, including: Sign up, Log in, Reset password and Edit profile.
2	The system should allow users to view the 3-D model of human body.
3	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.
4	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.
5	The system should allow users to view the acupuncture points marked on the meridians 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 view the information about the meridians by clicking on them on the 3-D model of human body.
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 attempt quizzes on the acupuncture points and meridians.
10	The system should store the results of quizzes attempted by the users and display the personal records using statistics and charts, graphs about the historical learning progress.
11	The system should allow users to switch between the view mode of two different types of 3-D model for human body: external anatomy model and internal anatomy model <b>(eliminated)</b> .

## 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.
7	The system should guarantee the trustfulness of the specialized information provided within the scope, with reference to trusted medical resources showed to the users.