COMP704 Research and Development Project

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

Sprint Planning

Client: Dr William Liu

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: 24th December 2022
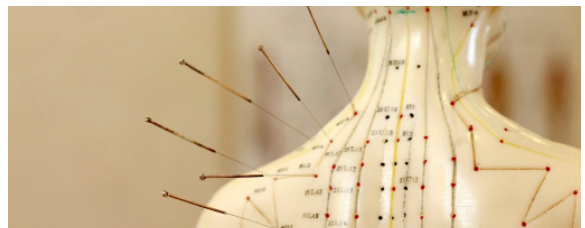
Sprint: Sprint 6 - Upskilling 2

TABLE OF CONTENTS

DOCUMENT VERSION CONTROL

1. DOCUMENT INFORMATION

Document code	**S6**
Document title	**Sprint Planning – Sprint 6: Upskilling 2**
Version	**1.0**
Authors	**Tan Le Tran Ba, Nhan Nguyen Cao**
Distributed by	**Project VN01 team**
File name	**S6_Sprint Planning – Sprint 6_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		24 Dec 2022 10:37

3. DOCUMENT VERSIONS

Version	Timestamp	Description	Responsible members
1.0	22 Dec 2022 23:58	Initial plan for the Sprint	**Nhan Nguyen Cao** *(21142377)*

I. SPRINT OBJECTIVE

- Demo and evaluate connecting to database servers from a Nest.js back-end project.
- Examine loading the selected and modified 3D model into display.
- Add basic interactions for user to interact with the 3D model after successfully loaded into display.
- Examine displaying a complete meridian with acupuncture points marked on the 3D model.
- Sketch the layouts for the main scenes to be included in the project.
- Define the plan for using script to digitalize collected information about the acupuncture points and meridians into storage for the final product.
- Prepare for the Informal QR Review presentation.

II. SPRINT DETAILS

1. SPRINT TIMELINE

Timeline: 26 Dec 2022 – 8 Jan 2023

Duration: 2 weeks

Table 1 - Sprint timeline

Week	Timeline	Detail
1	26 Dec 2022 – 1 Jan 2023	Examine loading the finished 3D model into display, using a Three.js-integrated React.js project. Define and add basic interactions to the 3D model after loaded into display in the browser. Examine connecting Nest.js project with the main and staging MongoDB database server. Create sketch versions of layouts for main scenes within the product.
2	2 Jan 2023 – 8 Jan 2023	Examine connecting Nest.js project with the main and staging MongoDB database server. Examine displaying acupuncture points and line for showing meridian on the 3D model after loaded into display of BL meridian. Prepare the presentation slide and content for the Informal QR Review presentation.

2. TEAM VELOCITY

Table 2 - Team Velocity for the Sprint (unit: hours)

Day of week	Nhan Nguyen Cao (21142377)	Tan Le Tran Ba (21142355)	Trang Ho Ngoc Thao (21142358)	Chuong Pham Dinh (21142643)	Total
Mon	2	0	1	1.5	**4.5**
Tue	2	1.5	0	2	**5.5**
Wed	2	2	1	1.5	**6.5**
Thu	2	3	1	1.5	**7.5**
Fri	2	1	1	1.5	**5.5**

Sat	0	3	4	2	**9**
Sun	2	1.5	4	2	**9.5**
Total	**12**	**12**	**12**	**12**	**48**

3. BACKLOG ITEMS

Table 3 - Backlog items

Item ID	Item description	Story points	Estimated effort (h)	Notes
1	Design prototype sketch (of screens' layouts)	3	8	
2	Load 3D model into display	1	3	
3	Add scrolling, rotating and zooming interactions for the 3D viewport after loaded the 3D model	3	8	
4	Config the camera angles for the viewport after loaded the 3D model	2	6	
5	Add loading scene before rendering the model	1	3	
6	Create demo test for connecting to MongoDB database (backup and main databases)	1	3	
7	Create demo test for connecting to PostgreSQL database (backup and main databases)	2	4	
8	Examine drawing acupuncture points of BL meridian into the 3D model	2	6	
9	Examine drawing the line illustrating the BL meridian (by connecting the acupoints) into the 3D model	2	6	
10	Config the labels of the acupuncture points to always face the screen.	2	6	
11	Record demo video about the method for loading 3D model into browser and how the acupuncture points and meridians are displayed.	2	6	
12	Discuss with Client (Dr. Liu) about the current approach for loading 3D model and displaying important factors.	1	3	

13	Define the main content to be included in the Informal QR presentation	2	6	
14	Draft slide for Informal QR presentation	2	6	
15	Complete the presentation slide for Informal QR presentation	3	8	
16	Create script for presenting the Informal QR presentation	2	6	
17	Research about technique for using script to integrate collected data from spreadsheets to database servers.	3	8	
Total	**17 tasks**	**34**	**96**	

4. SPRINT INPUTS

- Schedule for the Informal QR Review presentation.
- Set up database servers for the project: main and staging servers for MongoDB and PostgreSQL databases.
- Created and textured 3D model of human body.
- Basic understanding and experience of using Three.js library, and integrated into a React.js project.
- Illustration and information about BL meridian.

5. SPRINT OUTPUTS

- Successful connections to main and staging MongoDB and PostgreSQL database servers.
- Demo site with the 3D model loaded successfully and all the basic interactions (scrolling, zooming and rotating) integrated, and BL meridian with its acupuncture points marked.
- Appropriate camera angle for showing the 3D model into display at different viewports.
- Details about content to be included in the Informal QR Review presentation.
- Slide and script for the Informal QR Review presentation.
- Sketch version for main layouts' structure and included components of the main scenes of the final product.

III. SPRINT DETAILS

Table 4 - Sprint details

Task ID	Task name	Story points	Estimated effort (h)	Assignee
1	Design prototype sketch (of screens' layouts)	3	8	Tan Le Tran Ba
2	Load 3D model into display	1	3	Chuong Pham Dinh
3	Add scrolling, rotating and zooming interactions for the 3D viewport after loaded the 3D model	3	8	Nhan Nguyen Cao
4	Config the camera angles for the viewport after loaded the 3D model	2	6	
5	Add loading scene before rendering the model	1	3	Chuong Pham Dinh
6	Create demo test for connecting to MongoDB database (backup and main databases)	1	3	Trang Ho Ngoc Thao
7	Create demo test for connecting to PostgreSQL database (backup and main databases)	2	4	
8	Examine drawing acupuncture points of BL meridian into the 3D model	2	6	Nhan Nguyen Cao
9	Examine drawing the line illustrating the BL meridian (by connecting the acupoints) into the 3D model	2	6	Chuong Pham Dinh
10	Config the labels of the acupuncture points to always face the screen.	2	6	Nhan Nguyen Cao
11	Record demo video about the method for loading 3D model into browser and how the acupuncture points and meridians are displayed.	2	6	Trang Ho Ngoc Thao
12	Discuss with Client (Dr. Liu) about the current approach for loading 3D model and displaying important factors.	1	3	Nhan Nguyen Cao
13	Define the main content to be included in the Informal QR presentation	2	6	
14	Draft slide for Informal QR presentation	2	6	Trang Ho Ngoc Thao

15	Complete the presentation slide for Informal QR presentation	3	8	Tan Le Tran Ba
16	Create script for presenting the Informal QR presentation	2	6	Chuong Pham Dinh
17	Research about technique for using script to integrate collected data from spreadsheets to database servers.	3	8	Trang Ho Ngoc Thao
Total	**17 tasks**	**34**	**96**	