AUT UNIVERSITY
NEW ZEALAND

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:

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21142377	Nhan Nguyen Cao
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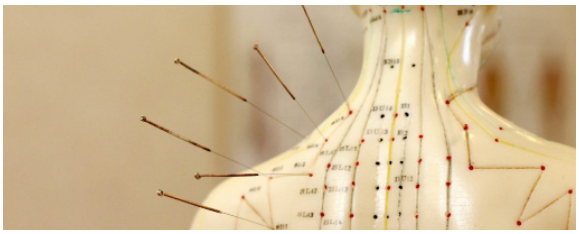

Version: 1.0

Date: 4th February 2023

Sprint: Sprint 9 - Development 3

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DOCUMENT VERSION CONTROL

1. DOCUMENT INFORMATION

Document code	**S9**
Document title	**Sprint Planning – Sprint 9: Development 3 (Feedback & Model Completion)**
Version	**1.0**
Authors	**Nhan Nguyen Cao**
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2. DOCUMENT SIGN-OFF

ID	Member	Role	Signature	Timestamp
21142355	Tan Le Tran Ba	Project Manager		4 Feb 2023 21:30

3. DOCUMENT VERSIONS

Version	Timestamp	Description	Responsible members
1.0	4 Feb 2023 15:50	Initial plan for the Sprint	**Nhan Nguyen Cao** *(21142377)*

I. SPRINT OBJECTIVE

- Collect user feedback from the target users (medical university students) and supervisor about the First version of Interactive prototype.
- Label acupuncture points of final batch of 3 main meridians (TE – Triple Energizer, GB – Gallbladder, Liv – Liver) and 2 extraordinary meridians (Du and Ren) to the 3-D model.
- Design and implement feature test cases for Interactive Prototype – V1.
- Research on advanced mouse effects (hovering and clicking) and camera effects (focusing on items) in Three.js library.
- Handle the API endpoints for storing, retrieving, updating information about the meridians and acupuncture points.
- Complete the model in ready-for-production status, by optimizing the interactions and reduce lags.

II. SPRINT DETAILS

1. SPRINT TIMELINE

Timeline: 6 Feb 2023 – 19 Feb 2023

Duration: 2 weeks

Table 1 - Sprint timeline

Week	Timeline	Detail
1	6 Feb 2023 – 12 Feb 2023	Collect user feedback from the target users (medical university students) and supervisor about the First version of Interactive prototype. Handle the API endpoints for storing, retrieving, updating information about the meridians. Label acupuncture points of second batch of 3 main meridians (TE, GB, Liv) to the 3-D model. Research and conduct technical experiments on advanced mouse effects (hovering and clicking) and camera effects (focusing on items) in Three.js library. Design feature test cases for Interactive Prototype – V1.
2	13 Feb 2023 – 19 Feb 2023	Summary user feedback from target users and supervisor about the First version of Interactive prototype. Discuss for the changes based on the summarized feedback on the Interactive prototype – V1 for V2. Handle the API endpoints for storing, retrieving, updating information about the acupuncture points. Label acupuncture points of second batch of 2 extraordinary meridians (Du, Ren) to the 3-D model. Optimize the interactions on the 3-D model and reduce lag. Implement feature test cases for Interactive Prototype – V1

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	Send interactive UI V1 to the students to get feedback about the prototype	2	4	
2	Set up API endpoint for getting meridian information	1	3	
3	Set up API endpoint for updating meridian information	2	4	
4	Draw to layout: TE meridian	2	4	
5	Draw to layout: GB meridian	3	6	
6	Draw to layout: Liv meridian	2	4	
7	Research hovering and clicking the acupuncture points and meridians	2	4	
8	Research changing camera focus to the selected meridian or acupuncture points	2	4	
9	Technical experiments of mouse and camera effects on the 3-D model	3	6	
10	Design feature test cases for Interactive Prototype – V1	3	8	

11	Summary the feedback about interactive UI V1 from the medical students and supervisor	3	6	
12	Create the second version for prototype V2 based on the feedback received from V1 (Stage 1)	2	6	
13	Draw to layout: Du meridian	2	4	
14	Draw to layout: Ren meridian + extra points	2	5	
15	Set up API endpoint for getting acupuncture point information	3	6	
16	Set up API endpoint for updating acupucnture point information	3	6	
17	Implement feature test cases for Interactive Prototype – V1	3	6	
18	Optimize interactions for the model in Three.js	3	6	
19	Reduce lag for the model integrated to the site using Three.js	2	4	
Total	**19 tasks**	**45**	**96**	

4. SPRINT INPUTS

- 3-D model integrated successfully with 9 meridians have acupuncture points labeled successfully (LU, LI, ST, SP, HT, SI, BL, KI, PC) .
- Data about 14 meridians and 361 acupuncture points (in MongoDB database) stored and validated.
- Interactive UI – Version 1, based on Prototype V1, done basically and can be accessible through staging server
- Back-end code repository (NestJS) set up with CI/CD pipeline integrated successfully.
- Sources to referencing the locations of 14 meridians and 361 acupuncture points.

5. SPRINT OUTPUTS

- Acupuncture points of last batch of 3 main meridians and 2 extraordinary meridians (TE, GB, Liv, Du, Ren) labeled successfully at correct locations on the 3-D model.
- Feedback from Medical university students and Supervisor collected and summarized.
- API endpoints available for storing, retrieving, updating information about the meridians and acupuncture points.

- Techncal experiments of adding hovering, clicking effects and camera focus-on-item effects on the 3-D model.
- 3-D model in ready-for-production status, reduced lags and optimized the available interactions for users.
- Feature test cases designed and documented on Interactive Prototype V1

III. SPRINT DETAILS

Table 4 - Sprint details

Task ID	Task name	Story points	Estimated effort (h)	Assignee
1	Send interactive UI V1 to the students to get feedback about the prototype	2	4	Tan Le Tran Ba
2	Set up API endpoint for getting meridian information	1	3	Trang Ho Ngoc Thao
3	Set up API endpoint for updating meridian information	2	4	
4	Draw to layout: TE meridian	2	4	Tan Le Tran Ba
5	Draw to layout: GB meridian	3	6	Trang Ho Ngoc Thao
6	Draw to layout: Liv meridian	2	4	Chuong Pham Dinh
7	Research hovering and clicking the acupuncture points and meridians	2	4	Nhan Nguyen Cao
8	Research changing camera focus to the selected meridian or acupuncture points	2	4	
9	Technical experiments of mouse and camera effects on the 3-D model	3	6	
10	Design feature test cases for Interactive Prototype – V1	3	8	Chuong Pham Dinh
11	Summary the feedback about interactive UI V1 from the medical students and supervisor	3	6	Tan Le Tran Ba
12	Create the second version for prototype V2 based on the feedback received from V1 (Stage 1)	2	6	
13	Draw to layout: Du meridian	2	4	Nhan Nguyen Cao
14	Draw to layout: Ren meridian + extra points	2	5	Chuong Pham Dinh
15	Set up API endpoint for getting acupuncture point information	3	6	Trang Ho Ngoc Thao
16	Set up API endpoint for updating acupucnture point information	3	6	

17	Implement feature test cases for Interactive Prototype – V1	3	6	Chuong Pham Dinh
18	Optimize interactions for the model in Three.js	3	6	Nhan Nguyen Cao
19	Reduce lag for the model integrated to the site using Three.js	2	4	
Total	**19 tasks**	**45**	**96**	