



COMP704 Research and Development Project

VN01 3D acupuncture healthcare data management and treatment system

Sprint Planning

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Sprint: Sprint 7 - Development 1

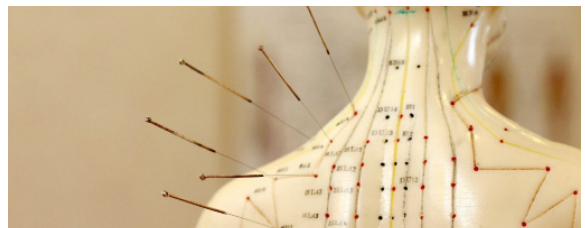


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DOCUMENT VERSION CONTROL

1. DOCUMENT INFORMATION

Document code **S7**

Document title **Sprint Planning – Sprint 7: Development 1 (Set up)**

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2. DOCUMENT SIGN-OFF

ID	Member	Role	Signature	Timestamp
21142355	Tan Le Tran Ba	Project Manager		8 Jan 2023 14:25

3. DOCUMENT VERSIONS

Version	Timestamp	Description	Responsible members
1.0	6 Jan 2023 22:50	Initial plan for the Sprint	Nhan Nguyen Cao (21142377) Chuong Pham Dinh (21142643)

I. SPRINT OBJECTIVE

- Set up the code repositories for the project (both Front-end and Back-end).
- Set up credentials and connection mechanism for database instance to be used in the project.
- Set up CI/CD pipeline for the project (CI for auto running unit tests on code submission and CD for auto deployment to staging server for frequent releases).
- Label acupuncture points of first batch of 5 main meridians (LU – Lung, LI – Large Intestine, ST – Stomach, SP – Spleen and HT – Heart) to the 3-D model.
- Write scripts to add data of acupuncture points and meridians to the Database.

II. SPRINT DETAILS

1. SPRINT TIMELINE

Timeline: 9 Jan 2023 – 22 Jan 2023

Duration: 2 weeks

Table 1 - Sprint timeline

Week	Timeline	Detail
1	9 Jan 2022 – 15 Jan 2023	Set up project repositories Set up code base (ReactJS) for Front-end Set up code base (NestJS) for Back-end Set up MongoDB + PostgreSQL database instances Draw acupuncture points for LU, LI meridian to layout Create prototype – Version 1 (Stage 2)
2	16 Jan 2023 – 22 Jan 2023	Set up CI/CD for Front-end Set up CI/CD for Back-end Draw acupuncture points for ST, SP, HT meridian to layout Create prototype – Version 1 (Stage 3) Write scripts to add meridians and acupuncture points data to Database

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
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3. BACKLOG ITEMS

Table 3 - Backlog items

Item ID	Item description	Story points	Estimated effort (h)	Notes
1	Set up project repositories	1	2	
2	Set up code base for Front-end	2	5	
3	Set up code base (NestJS) for Back-end	2	5	
4	Set up connection mechanism from Back-end server to MongoDB database	1	4	
5	Set up connection mechanism from Back-end server to PostgreSQL database	2	4	
6	Set up CircleCI for Front-end	2	4	
7	Set up CD for Front-end (Staging)	3	7	
8	Set up CircleCI for NestJS Back-end	3	7	
9	Draw to layout: LU meridian	3	6	
10	Draw to layout: LI meridian	2	4	
11	Draw to layout: ST meridian	3	6	
12	Draw to layout: SP meridian	3	6	
13	Draw to layout: HT meridian	2	5	
14	Write script to add data of 60 important acupuncture points to database	3	7	
15	Write script to add data of 301 other acupuncture points to database	3	7	
16	Write script to add data of 14 meridians to database	2	5	
17	Create prototype - Version 1	3	12	
Total	17 tasks	40	96	

4. SPRINT INPUTS

- Data about 14 meridians (12 main meridians and 2 extraordinary meridians) and 361 acupuncture points (60 important and 301 normal).
- 3-D model integrated successfully.

- Github organization created for R&D Project VN-01.
- Sources to referencing the locations of 14 meridians and 361 acupuncture points.
- Basic experience of using PyMongo library to add, update data to MongoDB database using Python script.
- Prototype – Version 1 finished up to Stage 1 (basic layouts for the most important scenes).

5. SPRINT OUTPUTS

- Repositories for Front-end and Back-end side of the project, with initialized code base ready for development.
- CI/CD pipelines set up for both Front-end and Back-end: CI for auto running unit tests and CD for auto deployment to staging server for frequent releases.
- Collected data about 14 meridians and 361 acupuncture points (currently stored in Google Spreadsheets) added successfully to the MongoDB database instance of the project.
- Acupuncture points of batch 1 of 5 main meridians (LU, LI, ST, SP, HT) labeled successfully at correct locations on the 3-D model.
- Prototype – Version 1 finished with design guidelines included and more stylings for the most primary scenes and the secondary scenes.

III. SPRINT DETAILS

Table 4 - Sprint details

Task ID	Task name	Story points	Estimated effort (h)	Assignee
1	Set up project repositories	1	2	Nhan Nguyen Cao
2	Set up code base for Front-end	2	5	
3	Set up code base (NestJS) for Back-end	2	5	Trang Ho Ngoc Thao
4	Set up connection mechanism from Back-end server to MongoDB database	1	4	
5	Set up connection mechanism from Back-end server to PostgreSQL database	2	4	
6	Set up CircleCI for Front-end	2	4	Nhan Nguyen Cao
7	Set up CD for Front-end (Staging)	3	7	
8	Set up CircleCI for NestJS Back-end	3	7	
9	Draw to layout: LU meridian	3	6	Tan Le Tran Ba
10	Draw to layout: LI meridian	2	4	
11	Draw to layout: ST meridian	3	6	Chuong Pham Dinh
12	Draw to layout: SP meridian	3	6	
13	Draw to layout: HT meridian	2	5	
14	Write script to add data of 60 important acupuncture points to database	3	7	Trang Ho Ngoc Thao
15	Write script to add data of 301 other acupuncture points to database	3	7	
16	Write script to add data of 14 meridians to database	2	5	Nhan Nguyen Cao
17	Create prototype - Version 1	3	12	Tan Le Tran Ba
Total	17 tasks	40	96	