



COMP704 Research and Development Project

VN01 3D acupuncture healthcare data management and treatment system

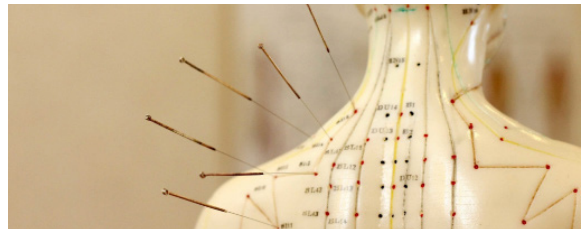
Sprint Planning

Client: Dr William Liu

Supervisor: Dr Nhan Le Thi

Team Members:

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Version: 1.0

Date: 11th December 2022

Sprint: Sprint 5 - Upskilling 1

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DOCUMENT VERSION CONTROL

1. DOCUMENT INFORMATION

Document code **S5**
Document title **Sprint Planning – Sprint 5: Upskilling 1**
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2. DOCUMENT SIGN-OFF

ID	Member	Role	Signature	Timestamp
21142355	Tan Le Tran Ba	Project Manager		11 Dec 2022 16:19

3. DOCUMENT VERSIONS

Version	Timestamp	Description	Responsible members
1.0	11 Dec 2022 09:47	Initial plan for the Sprint	Nhan Nguyen Cao (21142377)

I. SPRINT OBJECTIVE

- Learn the basic skillsets for using new library to render 3D into browser, Three.js library.
- Practice technical skills: Git flow skills and review skills related to required tech stack (React.js and Nest.js).
- Add texture of realistic skin color to the selected 3D model for putting into the product.
- Do some demo projects to practice different techniques within the library of Three.js, on React.js-based project.

II. SPRINT DETAILS

1. SPRINT TIMELINE

Timeline: 12 Dec 2022 – 25 Dec 2022

Duration: 2 weeks

Table 1 - Sprint timeline

Week	Timeline	Detail
1	12 Dec 2022 – 18 Dec 2022	<p>Review and upskill using some basic ground selected frameworks and libraries: React.js, Nest.js.</p> <p>Learn basic technique about Blender to create realistic skin texture for the selected 3D model.</p> <p>Review the documentation of Three.js library to acquire some basic understandings.</p>
2	19 Dec 2022 – 25 Dec 2022	<p>Add the created skin texture to the 3D model and evaluate appropriate color tones.</p> <p>Do some demo projects with Three.js library to understand different techniques and skills sets.</p>

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	Review about Git and Github	2	6	
2	Define the appropriate Git flow to be used for the project	1	3	
3	Review about Nest.js framework	2	6	
4	Review about React.js library	2	6	
5	Research about creating texture in Blender	2	6	
6	Acquire the appropriate color tones for realistic human skin color	1	3	
7	Create the skin color texture for the selected 3D model	3	6	
8	Add the texture to the 3D model and evaluate the color tones	1	6	
9	Research – Initialize a Three.js project (dependently and integrated to React.js project)	2	7	
10	Research – Load existing 3D model to the site with Three.js	2	6	
11	Research – Render text and line in Three.js	2	6	
12	Do demo project with Three.js – Color geometric floor	2	6	
13	Do demo project with Three.js – Globe and universe	3	6	
14	Do demo project with Three.js – Car racing	3	8	
15	Set up databases (main and staging) for the project using MongoDB	2	6	
16	Set up databases (main and staging) for the project using PostgreSQL	2	6	
17	Experiment loading scene when displaying model into browser with Three.js library	1	3	
Total	17 tasks	33	96	

4. SPRINT INPUTS

- Experience with developing a complete full-stack project using React.js and Nest.js
- Selected base 3D model (without texture) acquired during the previous Sprints.
- Selection of hosting server for main and staging databases for the project.
- Basic understanding and experience using Git for flow during the implementation of technical project

5. SPRINT OUTPUTS

- Defined Git flow for implementation of the project.
- Texture of realistic human skin color, integrated successfully to the selected 3D model of the project.
- Skill sets and experience of using Three.js library to render 3D into browser, and related techniques.
- Demo projects for implementing different techniques using Three.js library.
- Main and staging database servers for the project set up successfully.

III. SPRINT DETAILS

Table 4 - Sprint details

Task ID	Task name	Story points	Estimated effort (h)	Assignee
1	Review about Git and Github	2	6	Chuong Pham Dinh
2	Define the appropriate Git flow to be used for the project	1	3	Chuong Pham Dinh
3	Review about Nest.js framework	2	6	Trang Ho Ngoc Thao
4	Review about React.js library	2	6	Nhan Nguyen Cao
5	Research about creating texture in Blender	2	6	Nhan Nguyen Cao
6	Acquire the appropriate color tones for realistic human skin color	1	3	Tan Le Tran Ba
7	Create the skin color texture for the selected 3D model	3	6	Tan Le Tran Ba
8	Add the texture to the 3D model and evaluate the color tones	1	6	Nhan Nguyen Cao
9	Research – Initialize a Three.js project (dependently and integrated to React.js project)	2	7	Nhan Nguyen Cao
10	Research – Load existing 3D model to the site with Three.js	2	6	Trang Ho Ngoc Thao
11	Research – Render text and line in Three.js	2	6	Chuong Pham Dinh
12	Do demo project with Three.js – Color geometric floor	2	6	Trang Ho Ngoc Thao
13	Do demo project with Three.js – Globe and universe	3	6	Nhan Nguyen Cao
14	Do demo project with Three.js – Car racing	3	8	Nhan Nguyen Cao
15	Set up databases (main and staging) for the project using MongoDB	2	6	Trang Ho Ngoc Thao
16	Set up databases (main and staging) for the project using PostgreSQL	2	6	Chuong Pham Dinh
17	Experiment loading scene when displaying model into browser with Three.js library	1	3	Tan Le Tran Ba
Total	17 tasks	33	96	