



COMP704 Research and Development Project

VN01 3D acupuncture healthcare data management and treatment system

Market Research Report

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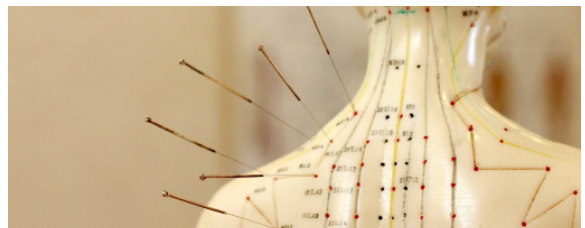
1.0

Date:

7th December 2022

Scope / Tool:

Summary



DOCUMENT VERSION CONTROL

1. DOCUMENT INFORMATION

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2. DOCUMENT SIGN-OFF

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3. DOCUMENT VERSIONS


Version	Timestamp	Description	Responsible members
1.0	07 Dec 2022 18:40	Summary of the main points from the 3 tools selected for evaluation, with a Summary for the Market Research tasks and recommendations about features that should be included in the final system.	Nhan Nguyen Cao (21142377) Trang Ho Ngoc Thao (21142358) Chuong Pham Dinh (21142643)




Summary

Single results:

 [Visual Acupuncture](#)

 [Acupuncture 3D](#)

 [Easy Acupuncture 3D](#)

Supporting platforms (mobile, web, desktop, ...)

	Visual Acupuncture	Acupuncture 3D	Easy Acupuncture 3D
Mobile (Android)	x	x	x
Mobile (iOS)	x	x	x
Web			
Desktop (Windows)	x	x	
Desktop (MacOS)	x	x	

⇒ None of the chosen applications support Web Platform

Free / Free with Subscription / Paid

	Free	Free with Subscription	Paid
Visual Acupuncture		x	
Acupuncture 3D		x	
Easy Acupuncture 3D			x

⇒ Easy Acupuncture 3D only offers paid subscription, while there existed free limited package for the remaining applications. It could be observed that none of the chosen applications support complete Free access.

Supporting features

Shared features

Interactive 3D model of human body, providing basic controls (rotate, zoom, scroll)

Show the acupuncture points and meridians on the 3D model

Search for information of the meridians or acupuncture points

Display the different meridians and different acupuncture points by meridians in different colors

Unique features

Visual Acupuncture: Quiz on the information of the acupuncture points and meridians

Easy Acupuncture 3D: Image containing anatomy and measurements

Available number of points and meridians (can compare between different versions if this number is not the same)

	Main meridians	Extraordinary meridians	Acupuncture points
Visual Acupuncture	Maximum 12 (only 2 for freemium)	2 (0 for freemium)	361 (78 for freemium)
Acupuncture 3D	12	2	361
Easy Acupuncture 3D	12	2	Unknown (assumed 361)

Missing features / Not good experience (if having a chance to download the app and try)

Shared not good points

- Not showing cautions for different acupuncture point locations based on anatomy characteristics
- UI is out-dated
- The data is not very well referenced ⇒ Unsure of the trustful source for the data and information involved in the app

Unique not good points

- Visual Acupuncture: Too limited free version: Not a good option to introduce the strength of the app. Providing only 2 out of 12 main meridians is too limited
- Acupuncture 3D: The font is hard to read + Also too limited free edition
- Easy Acupuncture 3D: No free package, the subscription is also quite costly

Summary

- Most of the applications shared the same basic set of features: display the 3D model of human body, with meridians and acupuncture points displayed
- All of the selected applications does not work on Web platform, which can cause difficulties in updating information or accessing the site from different devices, operating systems
- For all of the selected applications, none provide complete for all features free of charge, the subscriptions are required, which could be very costly.

Recommendations for features to add

- First of all, the site should be openly accessible, and most conveniently through the browsers. The system should be deployed as a web application for simplicity.
- The information involved in the system could be very large, and thus should be referenced from a trustful medical information sources (like medical books or medical databases).
- If the target users are medical students, who may not afford the subscription if it is too costly, can consider provide the system as a free platform for medical students to study.
- The features to add should follow the basic set of the selected tools: display the 3D model of human body, with meridians and acupuncture points displayed
- Some additional unique features can be considered:
 - The involvement of internal organ human anatomy display on the 3D model
 - Rather than just showing the meridians, acupuncture points and information, the system can also alert some warnings (to inject the needles with care in

sensitive regions or areas close to critical internal organs) \Rightarrow Can be more convenient and more interactive for the students during studying

- The involvement of Quiz functionality can be a good plus point