

Doctivia Initial idea outline

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1 Introduction

Medical care is the essential for all and the concept of reducing medical cost or providing free medical care is of great important. The idea of Doctivia is tailored toward contributing ti the solution and going beyond. This idea is divided into two main Sections: The healthcare management section, and the data Science and research section.

2 Purpose

The idea's purposes include:

- Bringing Low cost and quick healthcare to the masses
- Managing health reports and facilitating easy and reliable medical information communication
- Fostering research
- Providing the general population with a means to pay for their health services and other expenses

3 Idea Description

3.1 The healthcare management section

This section involve provide a fully decked out Healthcare management system. The following are sub units that makeup this section.

3.1.1 Hospital managements system

A fully decked out hospital management system is the main idea here. The system will constitute the ability to:

- Keep hospital reports including but not limited to medical, financial, inventory, and utility reports.
- Register employee's and separate between employees.
- Read, write, update, and delete information
- Keep track of activities performed within each system
- Communicate with external system while maintaining security and ethical constrains in the industry.
- Provide in app communication system with medical professional and general public

Note: This is not an exhausting list of features, but rather a head start

3.1.2 General public healthcare support application

This will involve an interface where the general public can use to gain access to their personal health information and other healthcare information. some feature include:

- Keep user's reports including but not limited to medical, financial, inventory, and activities reports.
- Register users and separate between users (Authorization).
- Read, write, update, and delete information
- Keep track of activities performed within each system
- communicate with external system while maintaining security and ethical constrains in the industry.
- Customizable user experience and application interaction – allowing for advertisements, suggestions and more.
- Provide local healthcare related information that eases users life including but not limited to pharmacy mapping, drugs availability mapping, and condition specific medical requirement mapping.
- Provide other healthcare information such as first aid step to follow, situation awareness, and best practices for preventive measure.
- Provide in app communication system with medical professional and other emergency contacts

Note: This is not an exhausting list of features, but rather a head start

3.2 data Science and research section.

This section encompasses medical data engineering which will be coupled with the two apps stated above while following industry constrains and ethics. some features will involve:

- Data engineering
- Data analysis
- Data presentation
- APIs to allow for external communications
- client registration, authorization, tracking, and other works.

Note: This is not an exhausting list of features, but rather a head start

In this section, we will sell our services as a middle man for data gathering, analysis and reporting to researchers, while offering a part of the ad revenue to the participants in surveys and interviews conducted in app. Th section will be held to the highest standard of ethics as it cuts across two domains.