Homeopathic Clinic LLC

Homeopathy Mobile Application
Vision Document

Version 2.0

Revision History

Date	Version	Description	Author
09/22/2020	1.0	Stakeholder Profiles and Other Product Requirements	Barbara Amoros
09/23/2020		Product Overview	Steve Priest
09/24/2020		Product features/ Scope	Trieu Truong
09/24/2020		Positioning	Delaney Ochs
09/25/2020		Introduction	Marko Vulovic
11/08/2020	1.1	Update Product Perspective Diagram	Delaney Ochs
04/14/2021	2.0	Update Product Perspective Description	Delaney Ochs

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Vision (Small Project)

1.   Introduction

This document will be used for the purpose of the volunteer project for a medical clinic called Hygieia Homeopathy, based out of McKinney, Texas. Hygieia Clinic has about 1500 views per month from her clients. This project is designed to provide the client a fully functionable mobile app for easier content viewing, patient management, appointment making, and patient messaging. In this vision document, there will be specifications and requirements provided by the client related to the application.

1.1   Background

Hygieia Clinic is a holistic alternative clinic in McKinney, Texas for all illnesses through natural and effective treatment options. Goal of the clinic is to promote awareness and education of homeopathy treatment among patients in the United States. Hygieia Clinic has a team of four dedicated to the work of the clinic. Dr. Sowmya Sridharan, the founder and the naturopathic physician, organizes the content about homeopathy on her website. Their website shares the knowledge with the clients using numerous videos, slides, and pdf's. No search functionality available on the website makes it for patients harder to search for their symptoms. This new product is going to serve as a replacement for all the current non-technological parts and also add some new features that will have a more user-friendly interface.

1.2   References

Homeopathic Clinic Website: https://www.hygieiahomeopathy.com

2.   Positioning

2.1   Business Opportunity/Problem Statement

The problem of	Patients' access and ability to search websites for knowledge, best practices, and protocols about homeopathy.
	Need for patients to access their personal data to include appointments; test results and payment information
	Easy communication between the Doctor and Patients
affects	Dr. Sowmya and her patients
the impact of which is	Patients inability to easily access and search website

a successful solution would be	Patients' ability to quickly locate information about their symptoms and possible cures.
	Patients will have the ability to access their personal account to review test results; schedule appointments and pay bills.
	Website information easy to update by the Doctor with current Homeopathy best practices.

2.2   Product Vision/Position Statement

For	Dr. Sowmya and Clients interested in Homeopathy Information/Treatment
Who	App for Hygieia Homeopathy Clinic
Homeopathy Mobile App	is a mobile application
That	Promotes awareness and education of homeopathy treatment among patients in the US to reduce dependency of unnecessary drugs.
	Allows information for Patients for appointments; test results and billing.
Unlike	Current Hygieia Homeopathy Clinic website
Our product	Easy to access and navigate
	Provides current information on Homeopathic Science.

3.   Stakeholder Profiles and User Descriptions

This section describes the users of the Homeopathy Mobile Application. Potential customers include anyone around the world wanting to improve their health through homeopathy.

3.1   Stakeholder Summary

Name	Represents	Major value or benefit from this product	Major features of interest	Direct User or not?
Dr. Somwya Sridharan	Primary user and owner of the Homeopathic Clinic.	Attract more users so they can learn about homeopathy.	Knowledge base management	Yes
Clinic's Staff	Personnel involved in the patient scheduling process and retrieval of patient information.	All patient records are persisted digitally and easier to access.	Appointment Management	Yes
IT Department	Person in charge of maintaining the website after the development efforts conclude.	Easier maintainability	User Management	Yes

3.2   User Summary

Name	Represents	Major value or benefit from this product	Major features of interest	Direct User or not?
Patients	Current registered patients in the Homeopathic Clinic.	Quick communication with Dr. Sridharan.	Appointment Management	Yes
English-Speaking person wanting to learn more about Homeopathy.	Anyone in the world with access to the internet and a smartphone.	Search	Search	Yes

3.3   User Environment

The user environment will be a mobile application. Anyone around the world with access to a smartphone and wanting to improve their health through homeopathy will be a potential user. Currently, the clinic's website has around 50,000 users per month. The mobile application will allow anyone to browse or query information from the knowledge database and to become a patient of the clinic. Registered patients will be able to schedule appointments with Dr. Somwya Sridharan as well as login and access documents and information related to their patient profile.

3.4   Summary of Key Stakeholder or User Needs

Need	Priority	Problem	Solution
User Friendly way to access information on how to heal naturally.	High	The current webpage is not very intuitive and it is difficult for the user to retrieve the information he/she needs.	Design an easy-to-use, intuitive user interface.
Scheduling appointments with Dr. Sridharan.	High	Currently, patients must call the clinic or use the website in order to schedule an appointment. Patients do not have a portal where they can easily access their information.	Provide access to patients to their profile so they can access their documents virtually without the need of any interaction from the clinic's staff.
Instant communication with Dr. Sridharan	Moderate	Users are not able to communicate with the clinic's staff easily and instantaneously.	Implement a chat feature where Dr. Sridharan can access messages from her patients.
Push Notifications with reminders.	Low	The current website does not provide any functionality that alerts users with upcoming appointments or healthy tips.	Let Dr. Sridharan or the clinic's staff send push notifications to its users.

3.5   Alternatives and Competition

Dr. Somwya Sridharan is aware that there exist other homeopathy clinics around the world, but

none of them provide the functionality that she is looking for in a mobile application. She expressed her liking of the Sadhguru application, which focuses on free yoga resources; She would like to develop something similar, adapting it to her clinic's needs. Currently, the clinic uses a website to perform most of the functionality the mobile application aims to achieve, but it has some problems regarding how user friendly it is and how the knowledge is stored.

4.   Product Overview

This section provides an overview of Hygieia Homeopathy's new mobile app's capabilities and system considerations.

4.1   Product Perspective

This product is a mobile application, and its primary function is to allow users to query a server-hosted database. The content of this database includes publicly available (non-sensitive) data such as articles and testimonies pertaining to homeopathy, as well as patient portal which allows users to schedule appointments and purchase homeopathy remedies and services. Database CRUD operations will be performed by the administrator.
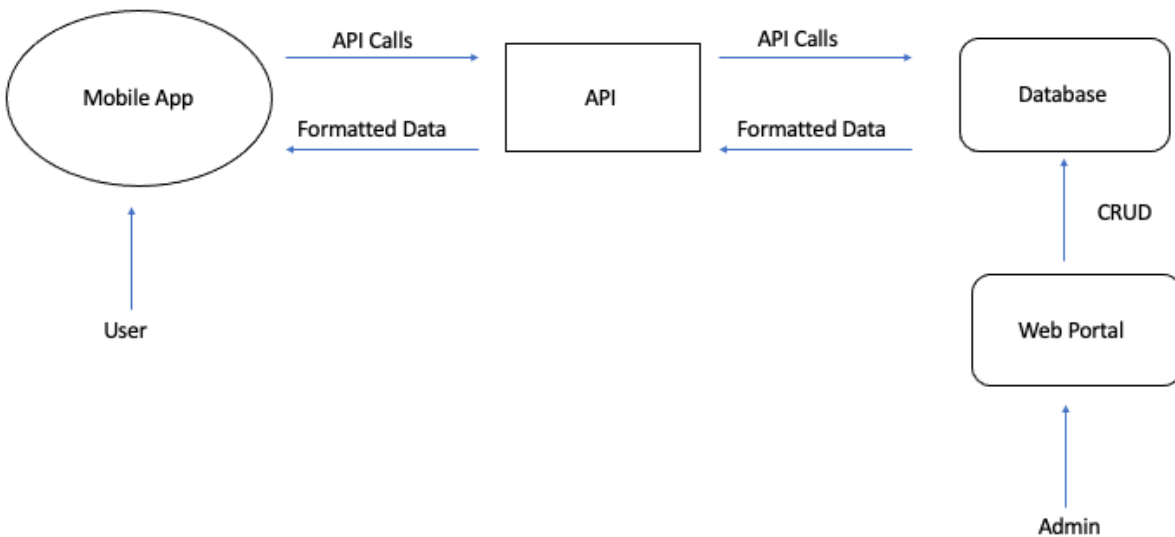
4.2   Deployment Considerations

This application will be deployed to the Google Play Store (for Android users) and the App Store (for iOS users), and made available to download for free on any device compatible with these platforms. Deployment to the Google Play Store requires a Google Play developer account, and a one-time $25 fee to publish applications. Deployment to the App Store requires enrollment in the Apple Developer Program and costs $99 annually. Users will need a device with an internet

connection or carrier-provided bandwidth (i.e. 4G LTE, 5G) to download and use this application. Users of this application may be located anywhere in the world.

4.3   Assumptions and Dependencies

1. This application will be developed using Flutter, an open-source software development kit. This will enable the development team to create a native mobile application (for both Android and iOS) using only one codebase and one programming language.

2. Hygieia Homeopathy's existing website (front-end) will not interact with this mobile application. If this assumption is false, the development team must meet with the client to determine how the two will interact.

3. This application will query Hygieia Homeopathy's existing server-hosted database. If this assumption is false, the development team and client must agree on a suitable storage solution for the database.

5.   Product Features / Scope

Feature	Functionality	Available to	Priority
Search	Allow users to access the relevant information from the knowledge base	• Everyone, if the information is free. • Authenticated users, if the retrieved information requires login	High
Knowledge base management	Allow admins to add or change information from the knowledge base	• Authenticated clinic users(*) (?)	High
Authentication	Allow users to login	• Everyone	High
Patient management	Allow users to add or change some users' information	• Everyone, to sign up as a regular user, or change their own credentials • Authenticated clinic users, to collect other users information (?) • Admin users(**), to make any changes to any user to the full extent (?)	High
Appointment	Allow users to schedule	• Authenticated users, to	High

management	appointments within available time frames	make appointments, and view their previous & upcoming appointments ● Authenticated clinic users, to set available time frames, and view all booked appointments	
Chat	Allow users to communicate with the clinic	● Authenticated users, to communicate with a single clinic user at a time ● Authenticated clinic users, to communicate with multiple regular users at a time	Moderate
News feed	Allow users to be more involved by viewing or being notified about new events posted	● Everyone, to view the content of the event ● Authenticated clinic users, to create or make changes to events (?)	Low

(*): Registered users with special privilege that can make changes at the platform level, such as Dr. Sowmya.

(**): Registered users with special privilege that can make changes at the infrastructure level, such as the IT department.

(?): It is unknown if the mentioned users need the mentioned feature. Some possible reasons are:
  1. Admins will directly make changes to the database.

Note: Clinic users can also be admin users and vice versa.

6.   Other Product Requirements

6.1 Applicable Standards

Patient information must be properly secured following HIPAA Privacy Laws in the United States. Also, the mobile application must be aesthetically pleasant taking into account the user's experience.

6.2 System Requirements

The system shall interface with the existing patient database.

6.2 Environmental Requirements

The Homeopathy mobile application must be compatible with iOS and Android operating systems. Users must have a stable internet connection.

6.3 Performance Requirements

The system must be able to handle thousands of users, which is the current number of visitors for the Homeopathy Clinic's website.