




MedTech

Medical problems
solved using Modern
Technology

The Team



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INTRODUCTION

- With the incorporation of new technology breakthroughs, medicine is advancing quickly. Graduate medical education (GME) presents an excellent opportunity for integrating technological marketing tools to better effectively and efficiently communicate information.
- In health care, medication errors can result in serious health risks to patients, and hospitals require a secure medication administration system to prevent such errors. Therefore, a secure medication administration technique based on threshold-sharing technology is suggested in this work. The usage of medicines and their salts are encoded into QR code transparencies when a patient visits a doctor and the doctor prescribes n drugs. These transparencies may be read by standard QR code scanners that are available for smartphones.



INTRODUCTION

When a patient receives their medication, they can use a smartphone to scan these QR code transparencies to make sure they have all the medications prescribed by their doctor. This capability is usable even if the patient's phone lacks Internet access. The major goal of the proposed system is to stop hospitals from providing patients with the incorrect dosage of medication or less medication than what was prescribed. The goal is to lessen the likelihood that counter workers may provide medication to the incorrect patient, not to improve the interior packing of medications in hospitals. For non-English speakers who are not accustomed to reading in english as it gonna have the google assistant function too and various languages translation to native language, this function is quite important.



Problem Statement

- The major problem in healthcare is not knowing the uses of medicine.
- Several studies, in different countries, indicate that adverse effects from medication errors represent a significant problem for Healthcare worldwide.
- A study indicated that 9.3% of hospital stays incurred a serious adverse event, with medication errors being the main cause (37.4% of such events).
- The Ministry of Health found that each year about 5,000 patients are subject to medication errors. As a result, about 150 patients die, over 400 are permanently disabled and nearly 3,500 are disabled for less than one year.



BACKGROUND WORK / EXISTING SOLUTIONS

We have researched the scanning systems proposed by others and given an efficient and better solution. Already there have been scanning systems for identifying patients and doctors, etc. There have been cost-challenging solutions and QR-enabling solutions too.

We have summarized the research papers in the following link:-

https://docs.google.com/spreadsheets/d/1jHRU2kqpOT3NrmEMlmeN18VDRrMDixP/edit?usp=share_link&ouid=112802159640964662878&rtpof=true&sd=true



NOVELTY

- In the modern world, a lot of problems have arisen in the healthcare domain but with it, technology has also taken an advanced step. We have proposed a solution that is an "All-in-one" stop for patients to take care of their health.
- Our application scans the medicines to let you see a variety of details about them (also leads to not taking the wrong medicine) and helps you to schedule the different doses at different times so as to take them up on time in your busy lives
- Keeps a track of your progress and can be shared with your doctor or family so that if any changes are needed at any point then they can be advised by the doctor.
- We provide an efficient solution at no cost. Our application is very easy to use and adaptable to multiple works.



Proposed Solution

We have come up with a solution that will help our users by taking care of their every healthcare need. Our application has many attributes which we have listed below:-

- Designing an application that collects information about medicines and tells users about Names, Contains, Salt Synonyms, Manufactures, Descriptions, Benefits, Side Effects, etc.
- Creating a database of Medicines.
- Syncing the application data with google to know details and Salt Synonyms.
- Automatic sending of alerts to users while they forgot to take doses on time
- Let patient to know about the salts used in the medicine just by scanning the QR code on the packet.



Proposed Solution

- Helps the patient to get the uses of medicine.
- Helps to know about side effects or allergic components if any inside the medicine.
- A good solution for pharma companies or registered medical practitioners.
- Complete solution for patients who consume un-prescribed medicines(reduces the risk of consuming unprescribed medicine).
- Helpful for people living in a rural area with minimal knowledge of medicines.

Hardware Requirements

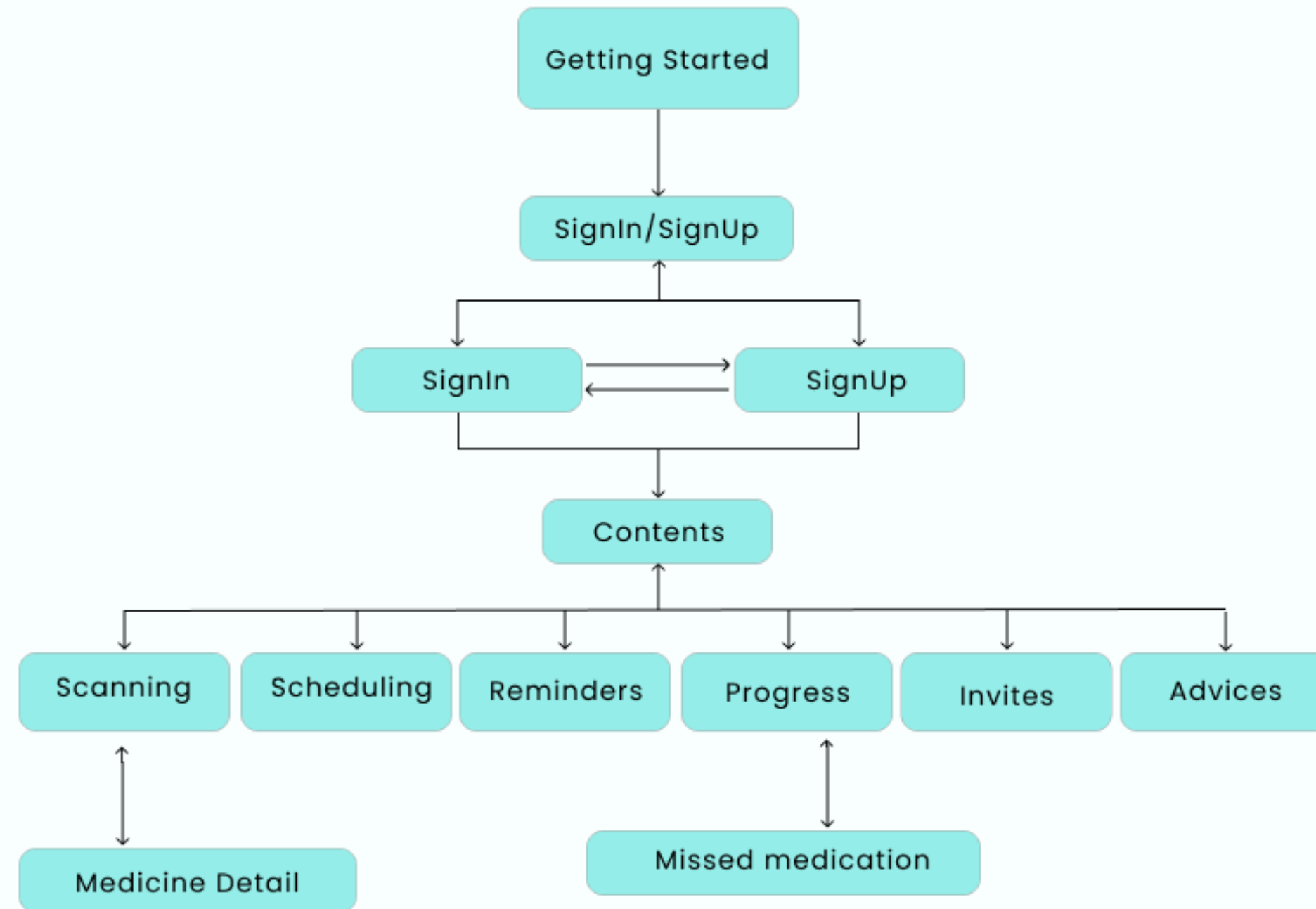
- PROCESSOR: Snapdragon or more
- RAM: 256MB
- ROM: 4GB

Software Requirements

- Operating system: Android 4.4 or late.
- Available in : Google Play Store
- Languages : ANDROID.

Working Of MedTech

Flow of the App MedTech

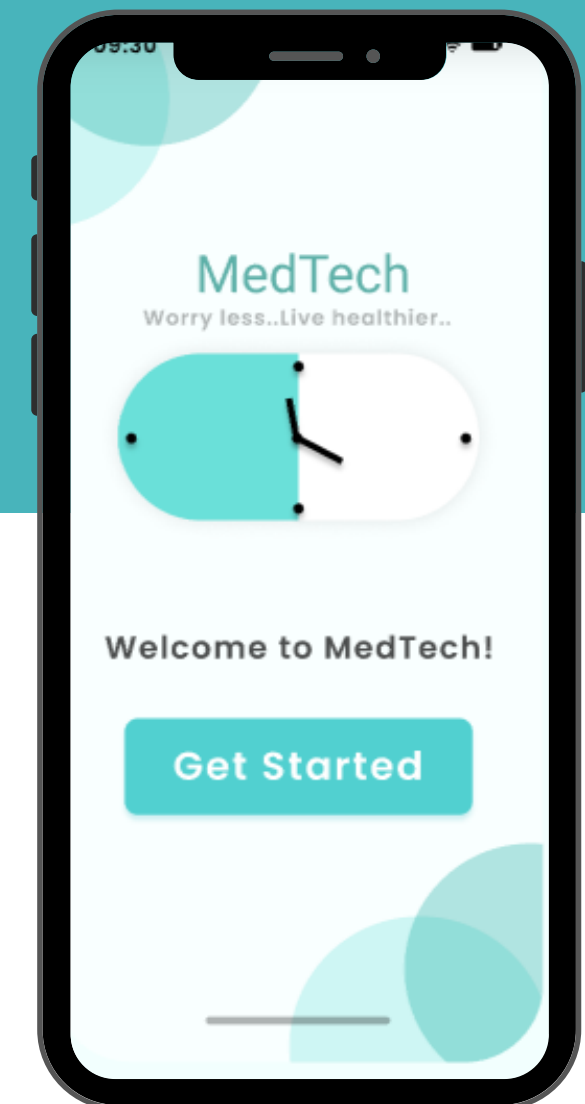




IMPLEMENTATION

We have created a visual representation of our app on Figma. Kindly go through it.

[https://www.figma.com/file/6lbymesHVX9wWGypoysVD3/UI%2FUX-Model-\(Community\)?node-id=0%3A1&t=g4M8QHneqHNIvTsR-1](https://www.figma.com/file/6lbymesHVX9wWGypoysVD3/UI%2FUX-Model-(Community)?node-id=0%3A1&t=g4M8QHneqHNIvTsR-1)





THANK YOU

