



MedMe Application.

Introduction

This application was created as a way for people who suffer from epileptic conditions to help manage and control either for a period of time or for life while also being useful in an emergency situation should a seizure happen.

Findings:

The graph below from Google trends shows that this is something people are interested in and that there is a steady increase in demand for such an application as more people are searching for health applications.



After seeing the demand for such an application I then researched how many people could actually download the app (78.29 Mil as of 2016) to ensure that there was a high demand and large market for the application.

Aims & Objectives

- Aims:
- Raise awareness of epilepsy and its complexity.
 - Allow those who suffer from epilepsy or seizure based conditions peace of mind and the ability to manage their medication and condition.

- Objectives:
- Develop a mobile application that allows the user to store medication, condition, personal details and a notes area for custom information with a emergency button on the lock screen in the event of a seizure.
 - A medication reminder for when they need to collect it.
 - Preform a pilot and live survey to understand peoples opinions on such an application.

Description

The application will hold data such as:

- Name.
- Age.
- Epilepsy details.
- Medication/Reminder.
- Side effects.
- Next of kin contact details.
- Last known incident and details.
- List of Triggers.
- Notes.

The application will be made in XCode using the Apple made language Swift 3. Information will be stored on the device in the CoreData.

The use of survey will be used along with research from the literature review to decide the final requirements and features of the application so that it can meet all its users needs and aim to become a life changing application.

Carrier 10:53 AM

Details

Name:
Josh Rowland

Contacts:
Dad: 0785467883

Address:
15c William Road

Conditions:
Myoclonic Epilepsy

Triggers:

Condition Reminder All Details Your Details More

Carrier 10:53 AM

Triggers:

Sleep Deprevation

Last Incident
12/5/2017

Medication:
Levetiracetam

Dosage:
500mg

Condition Reminder All Details Your Details More

Carrier 10:53 AM

Medication:

Levetiracetam

Dosage:
500mg

Side Effects:
None

Notes:
Allergic to peanut
Currently using pain killer for leg injury

Condition Reminder All Details Your Details More

Carrier 11:10 AM

Reminder

Repeat Weekly: ☒

Set Reminder

Condition Reminder All Details Your Details More

Carrier

11:00
Sunday, April 29

MEDME now

Medication reminder!
Collect medication today!
Press for more

Press home to open

The target audience is anyone who has epilepsy or a seizure based condition and an Apple device. The application could even be used by parents of children who are too young to use or own an Apple device.

Outcome

The outcome resulted in a functioning mobile application that can help the user manage their epilepsy for as long as they need it. This will provide an efficient and easy way for Apple users to monitor not only their health but that of family members who are unable to use the application themselves by downloading it on their mobile device instead.

The application has been a success as most of the requirements were met and the applications features work. The few who tested the final product used it without issue or error.



The application could still improved to have a cloud backup feature in the event the data is lost. Ideally it would be able to link to a smart watch than can monitor your heart rate and health which can register if the user is having a seizure and send an emergency ping out with GPS location to emergency services to ensure the user is treated.

References::

Search Graph: <https://trends.google.com/trends/explore?q=Health%20App>
Apple report bar graph: <http://uk.businessinsider.com/apple-iphone-sales-yearly-chart-2017-2?r=US&IR=T>
iPhone: <http://www.fanshare.com/gallery/photos/16862321/iphone-transparent-background-3dglavioz>
Cloud Benefits: <http://www.kent-fms.co.uk/what-is-the-cloud/>

MedMe underwent Test Driven Development and unit testing in order to achieve minimal errors and issues. This was the most suitable development method for this application as XCode allows the developer easy control over each individual page and the system as a whole. Those who tested it found it easy to use and had no misunderstandings or unexpected errors. They found the UI very easy to understand without over complicating features.