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Remedy Me

Description

The main goal of this app is to help people to have a better health by reminding when to use their medicine. We all know how hard it is to remind of all the times you need to take your medicines, especially when said medicine has strict times to be taken, and even worse, when you need to take more than one at a time. So, through the use of our app Remedy Me, we want to make this process easier, reminding you of these times.

Intended User

Every person that need to take a medicine.

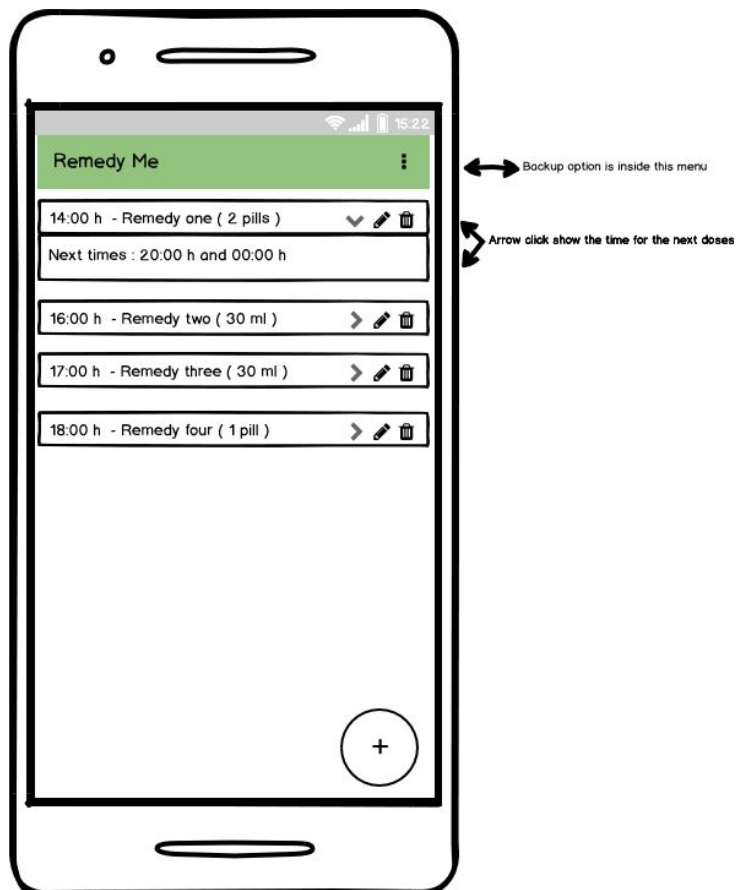
Features

List the main features of your app. For example:

- List every medicine you need to take, with their defined time.
- Allow the creation of a new reminder
- Allow editing of already created reminders.
- Allow the removal of any reminder.
- Send notifications when the time has come to take any of the medicines
- Allow the configuration of an alarm clock for each medicine.

User Interface Mocks

Main Activity Screen



Main activity screen, shows all the Remedy reminders created by the user, ordered by time, where the first item is the next remedy to be taken. Each row shows the name of the remedy, the time of the next dose and the amount to be taken. The arrow button shows the next times the remedy must be taken, the pencil button calls the “New Remedy Activity”, with the

information of this row to be edited, and the trash button removes this Remedy reminder. There is also a FAB that calls the “New Remedy Activity” to create a new Remedy reminder. On the toolbar, there is a menu containing the backup option to send the local list to the Firebase Database.

New Remedy Activity

Remedy Me

Remedy Name

Start Date End Date

Time of first dose

3 40

Times

Times per day 3

Time interval

Type of dose

Pills 2

MI

Save

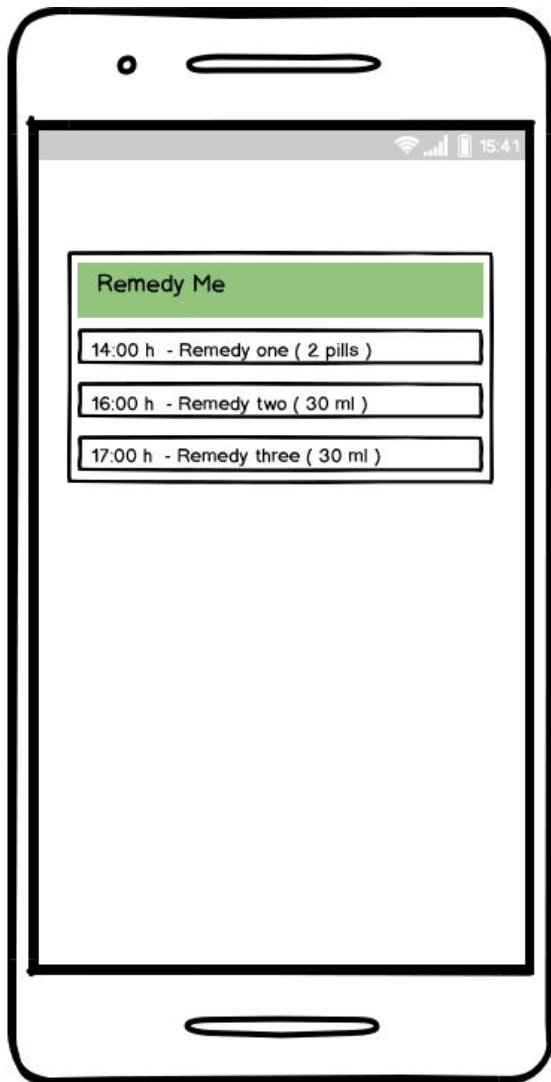
Clicking on the box opens the date picker

JULY 2018

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

The New Remedy Activity is called when the user clicks the FAB on the Main Activity, or clicks on the pencil button on a Remedy reminder item of the list. This activity have all the needed information that have to be filled in order to create a new Reminder, or edit an existing one. By clicking on the Save button, the new Reminder is added to the local database, and the user is taken to the Main Activity Screen, where the new Remedy reminder will be shown.

Widget



The Widget will be a simplified version of the Main Activity screen, showing the times of the next remedies to be taken.

Key Considerations

How will your app handle data persistence?

The app will save the reminders created both locally, using SQLite database, and remotely using Google Firebase Database.

Describe any edge or corner cases in the UX.

Our UX will use the Material Design Guidelines. The main screen will be a list with the created reminders, and a button that allows the creation of new reminders. There will be an option for editing and exclusion for every reminder.

Describe any libraries you'll be using and share your reasoning for including them.

We will be using the SQLite library to store data locally on the device, as it is the Android standard. We will be using the Google Firebase library to store data remotely, as it is a reliable and well-known set of databases. We will be using the Google login library to sync the user's data with the remote database. And we will be using the Material Design library, to make our app's interface clean, intuitive and beautiful.

Describe how you will implement Google Play Services or other external services.

We will be using the Google Login service to identify a user on the device, and we will be using the Google Firebase Database to store remote data. When logged in with its Google account, we will allow the user to save the reminder list remotely. This will be done via a "Backup" button, that will send all information needed to the Firebase Database. There will be a button to Sync the local list with the remote list. This way, the user can have its medicine list in a different device.

Next Steps: Required Tasks

Task 1: Project Setup

Setup the needed databases and libraries.

- Configure libraries
- Configure the Firebase Database
- Configure the SQLite local Database

Task 2: Implement UI for Each Activity and Fragment

Build the UI for the Main Activity, that will have the Reminder List, a FAB to create a new reminder, which will call the Create Reminder Activity, a toolbar and toolbar button that will

contain the “Backup” button, that stores the local database to the Firebase Database, and a “Sync” button, that download the data stored in the Firebase to the local SQLite database.. Build the UI for the list item fragment, with the needed information, and a button for edition and deletion.

Build the UI for the Create Reminder Activity that will have the following fields:

A Text field for the Medicine name;

A Calendar with the starting and ending dates for the medicine;

A Text field for the starting time of the first medicine intake (i.e. at 8:00), which will be used to set the times of the other uses, based on the timing option.

A combobox with options for the timing of the medicine. The first option is to set the interval the medicine must be taken (i.e. every 8 hours). The second is to set how many times a day it must be taken (i.e. 4 times a day).

A second combobox with the type of medicine to be taken, having the option to be a “Pill” for pill type medicine, or a “ml” for liquid based medicine (i.e. a cough syrup), followed by a text field for the dosage.

Task 3: Create Widget

Build the widget UI, that will show the 3 next medicines to be taken, with their time and dosage.

Task 4: Notifications

Create the notifications, that will warn the user of the Medicine name, the time and dosage.

These will be configurable with an associated alarm clock, having the option to be disabled.

Task 5: Testing and Validation

Validate for connection failures, and guarantee the application does not crash when there is no internet connection.

Validate if the user can access it's local list even without an internet connection.

Validate if the user can access the app even if there is a problem with the google login, and access it's local data.

There will be no Unit test for these validations.