Medic Application Report

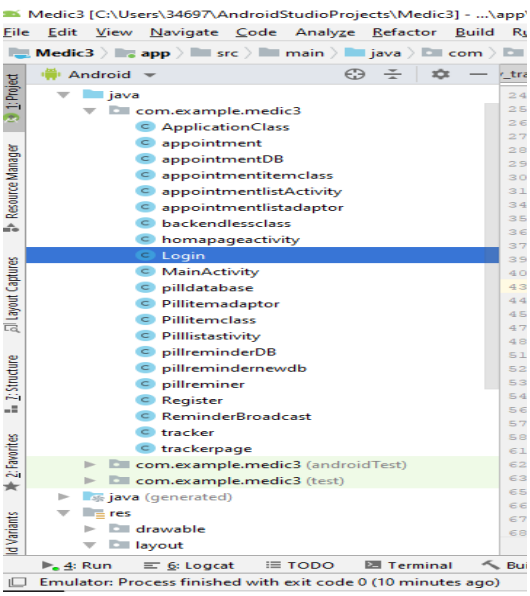
Introduction

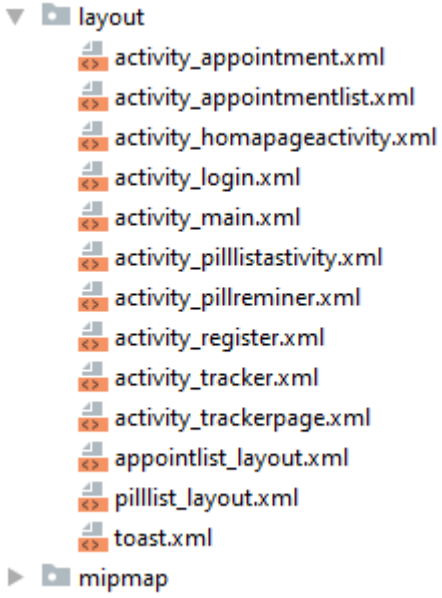
This application consists of 4 main parts as in the assignment requested: appointment maker, pillreminder, tracker and panic button which each section will be illustrated in the following sections.

This application is cloud-enabled app. We have used Backendless cloud to save User personal data and also to save user location points and track him. In the first time use of application a user needs to first register and then login. The register and login information of the user will be saved on the Backendless cloud.

The application also uses local database. This app uses sqlite to save data of appointment maker and pillreminder sections. As a training work we have tried to make use of both cloud and local database to get familiar with both two methods.

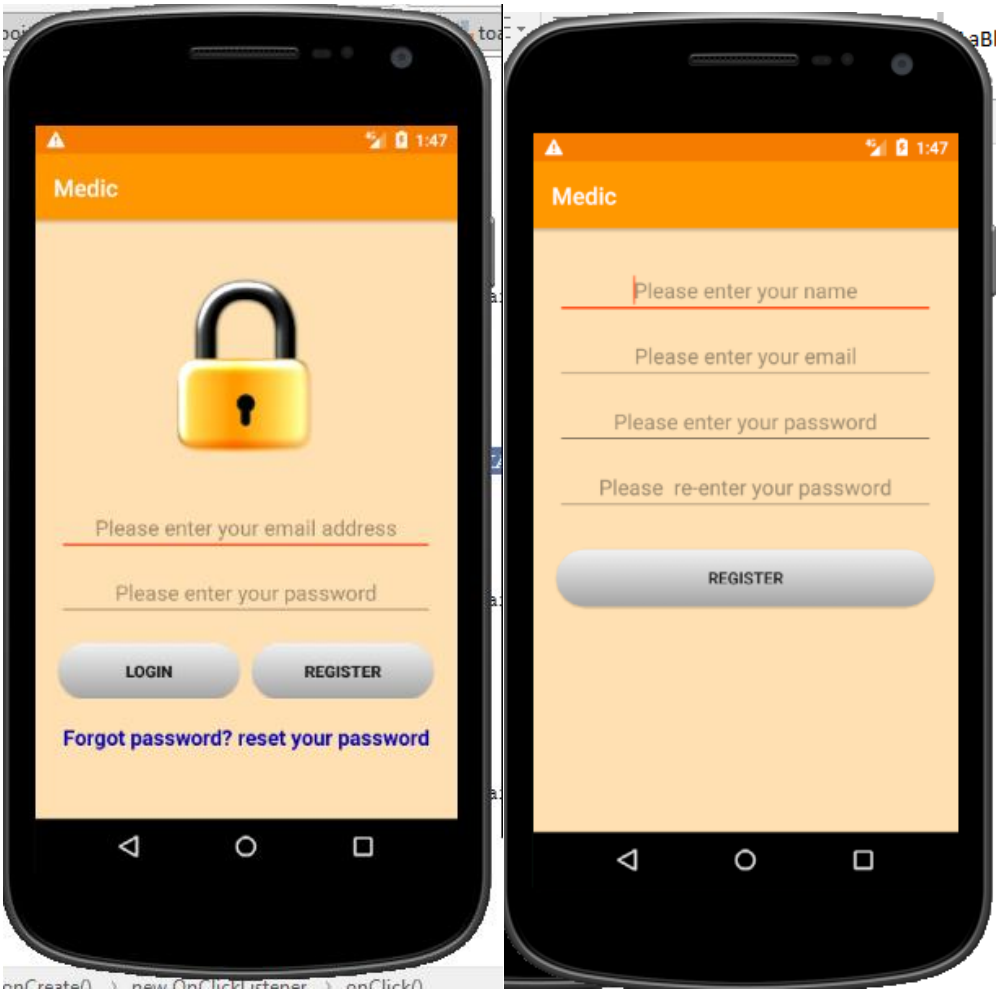
We have designed 12 layouts including customized listviews , progress bar as well as customized Toast and also the app is working on 18 Java classes including activities, adaptors and database classes.





Register and Login

We have designed two pages to register and login process. The register information process will be sent to Backendless cloud and in the login page the app retrieves information from cloud to login user in. In the case that user have forgotten the pass she/he can just enter the email address in login page and click on blue text on the bottom of the page and the instruction email will be sent to them to reset their password. After the user being logined in, she/he doesn't need login process. To enable this functionality I have used Backendless.UserService.isValidLogin() class in login activity class.



Homepage

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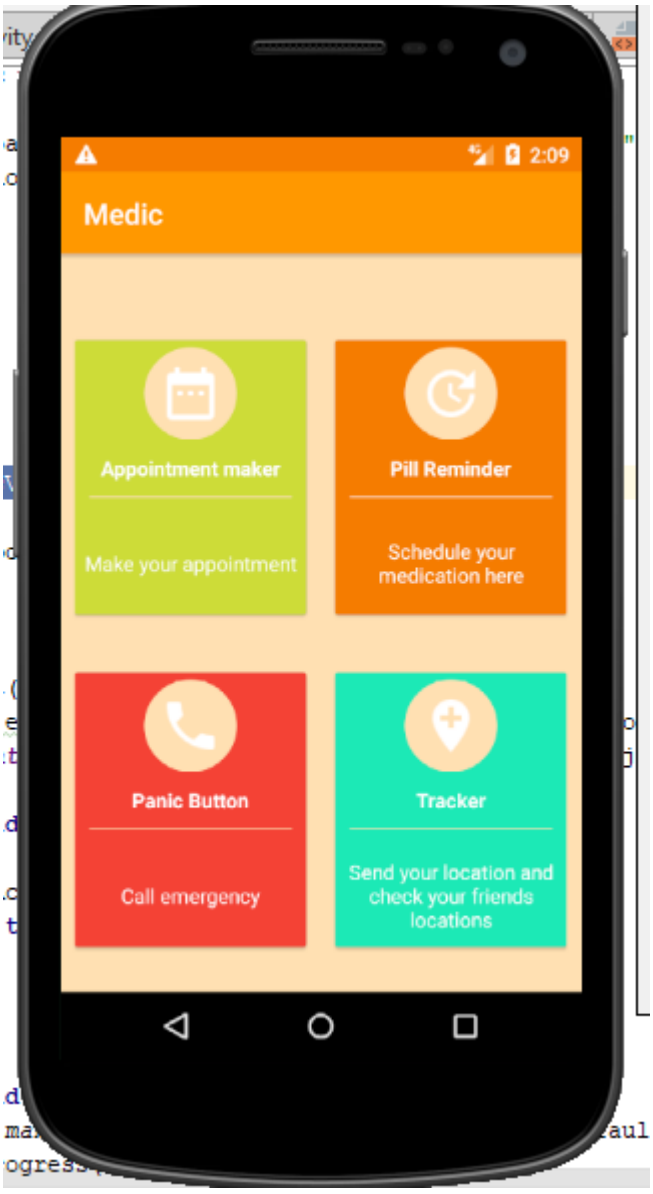
This page includes four clickable areas to bring the user to 4 main functionality of the app as shown below. Three icons : Appointment maker , Pill Reminder and tracker will guide user to related pages and Panic button will bring the user to phone call app with the emergency number typed on dial page. Which I put my personal number so I will be ready to help them!!!



Appointment Maker

In this page as soon as the user select the region in top sppiner and click SELECT button hospitals hospital spinner and another SELECT button will appear and the user must select the center to see the Doctor sppiner and select one of them. After that user must select date and time by clicking on views labeled Select Date and Select Time. By clicking related buttons Date picker and time picker dialog fragment will appear and user can choose the date. Since we don't have hospital data I let the user to select any time and date. I have used google map to gather name of medic centers. After selecting all information and clicking Submit button the appointment will be made and saved in appointmentDB database locally. Please notice after select any item in a sppiner the related select button must be clicked, otherwise a message will pop up and ask for missing information.

Show Appointment button will bring the user to another page with a list of appointments that have been made. For this page I have read the data from database and parsed string data from to show the any related data in customized list view. For this functionality I have used a customized list adaptor and also customized list layout. This functionality is using four java class and two layouts.

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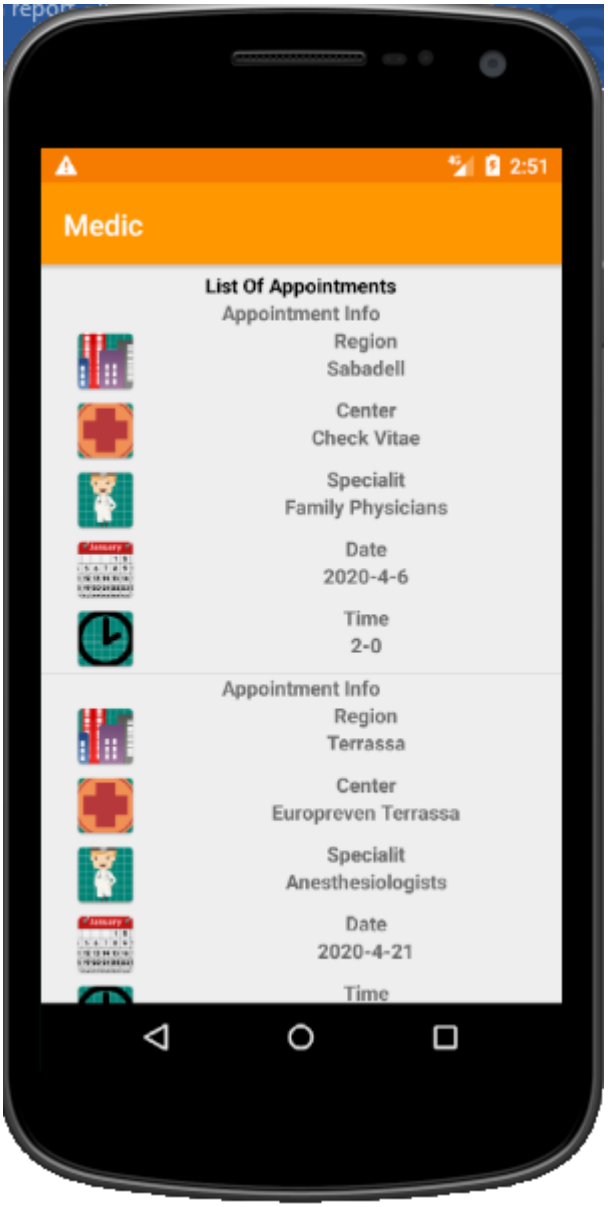
There is a class named appintmentitemclass which I defined every appointment object as an object from this class the procedure is the same for every notification in pill reminder functionality.



Pill Reminder

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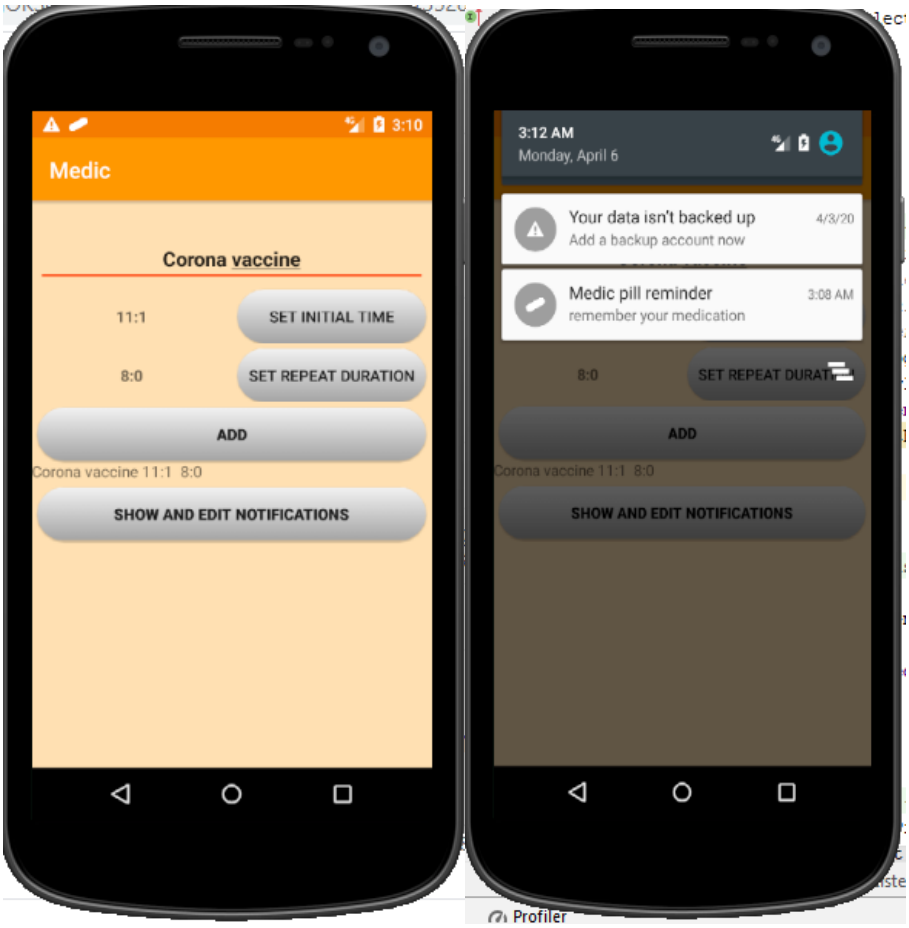
In this page as shown below There are three fields that must be filled by user to get app to send notification on repeated duration: name of pill, the start time and duration of every repeat. After filling field and clicking Add button notification will be sent on user phone in theregular time . As shown in the below left screenshot the notification icon has appeared as a pill on the user phone.



By clicking SHOW and EDIT NOTIFICATON button the user will be guided to another page that can see the records that has been made and delete the any notification by entering the notification ID by clicking delete Button. I have used timestamp to create unique ID for any notification.

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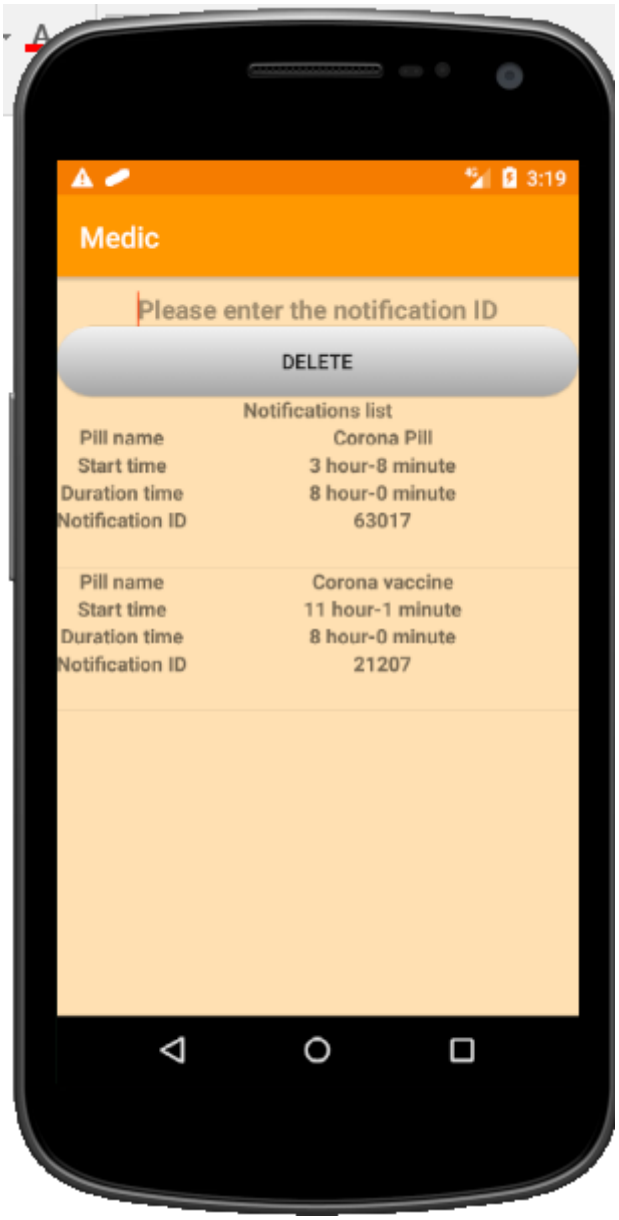

Tracker

In this page I have used Backendless to save the location of the user as can be seen in the below screenshot. There are four buttons the top one(show location) is used to show the location of the user and his and her caregiver. The user and two caregivers are categorized as medic group in Backendless member and they have access to themselves locations. And the location that they will send by clicking button in their top of their page, can be shown in the Backendless website application account.

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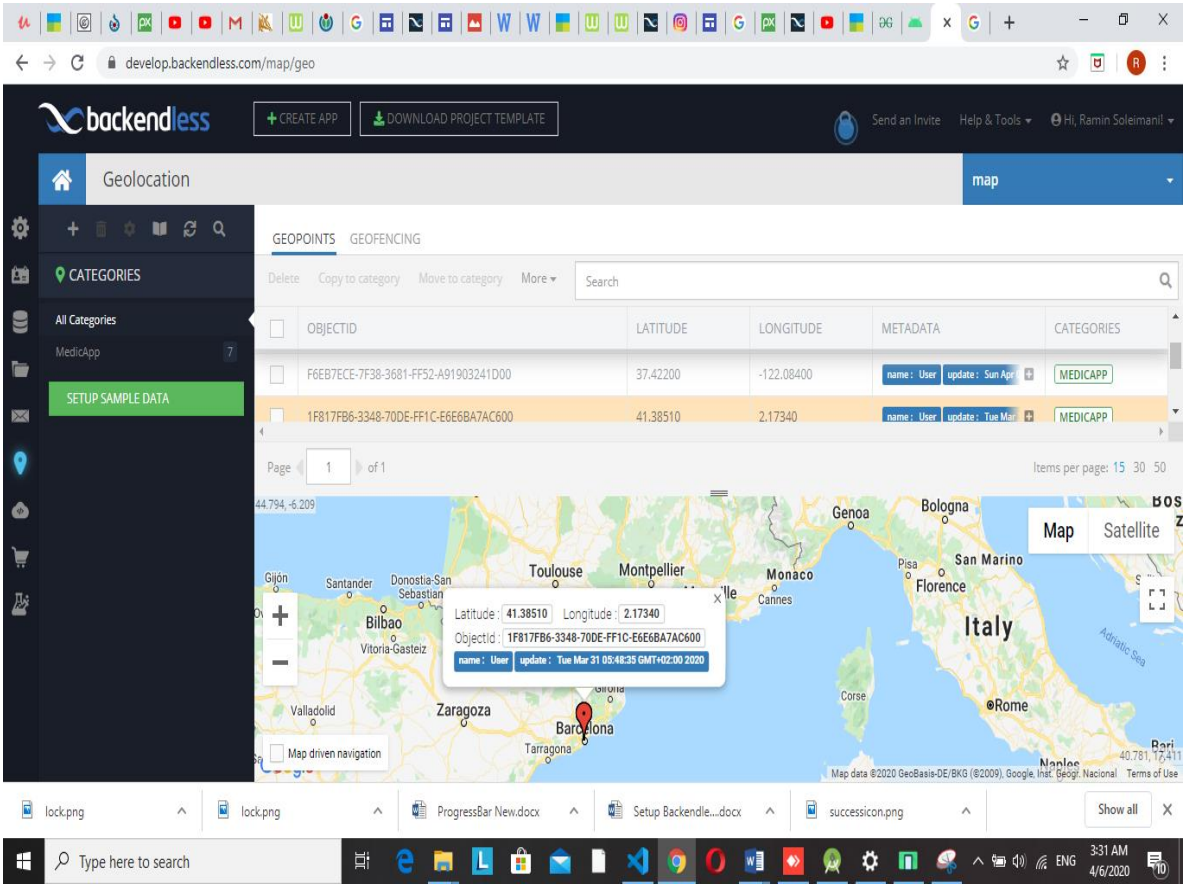
develop.backendless.com/map/geo
backendless
+ CREATE APP
DOWNLOAD PROJECT TEMPLATE
Send an Invite
Help & Tools
Hi, Ramin Soleimani!
Geolocation
map
CATEGORIES
All Categories
MedicApp
SETUP SAMPLE DATA
GEOPOINTS
GEOFENCING
Delete
Copy to category
Move to category
More
Search
OBJECTID
LATITUDE
LONGITUDE
METADATA
CATEGORIES
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of 1
Items per page: 15 30 50
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Satellite
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Longitude : 2.17340
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name : User
update : Tue Mar 31 05:48:35 GMT+02:00 2020
Map driven navigation
Map data ©2020 GeoBasis-DE/BKG (©2009), Google, Inst. Geogr. Nacional
Terms of Use
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Type here to search
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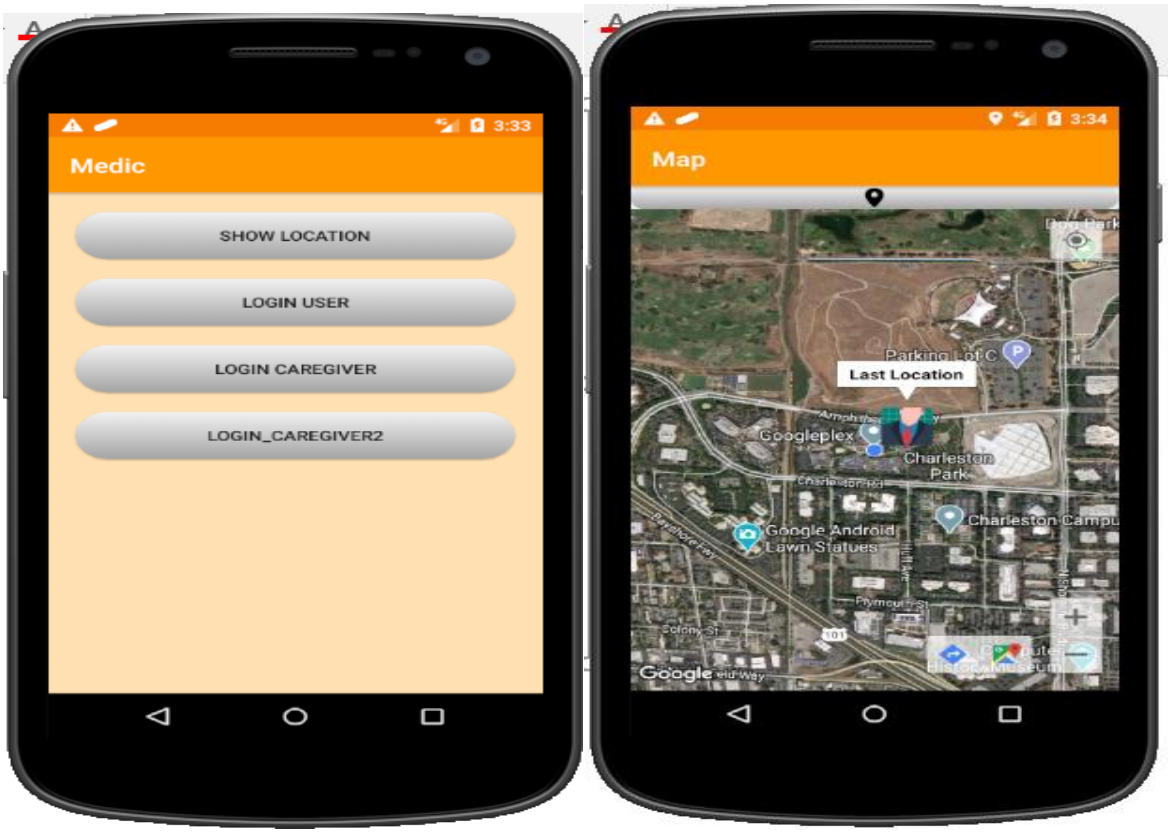

Please notice that using emulater it is not possible to send location by clicking the button on the top the map(above right screen shot) and to test this functionality you must send the emulater location manually but it works well on real phone. As illustrated below in the screenshot the location information of the users and their caregivers in addition to map are available in the table form in the backendless web.

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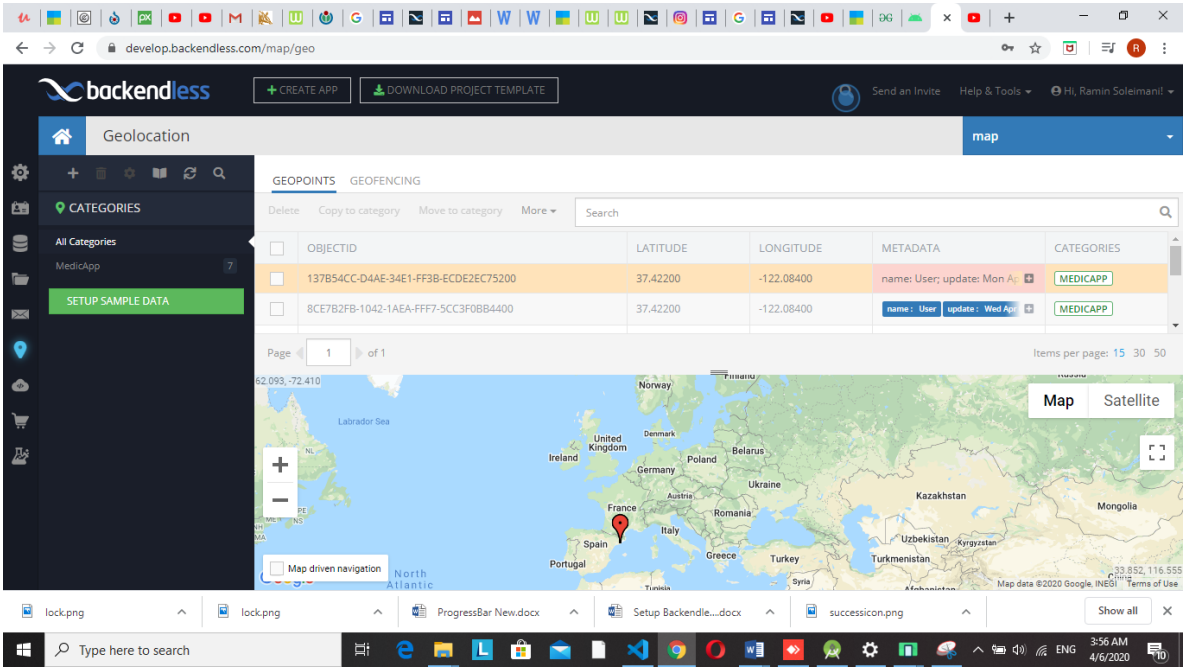

Please notice that application project in android studio is working well with Galaxy Nexus API 22 but I had some problem with other ones. The application is working flawlessly on real phone.

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