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Trigger

Description

Trigger is an android app which will automatically configure your settings based on the profile created. Trigger can be configured based on location, wifi and bluetooth.

Intended User

This is an app for everyone who wants to change the phone settings based on their environment.

Features

Main features of the App are:

User can add a new trigger based Wifi or Bluetooth or Location.

User can view the list of triggers added.

User can view a map to see his location triggers.

User can search a location and add the location trigger by clicking on the map.

User can change his Ring Volume, Media Volume, Bluetooth settings and wifi settings based on the trigger added.

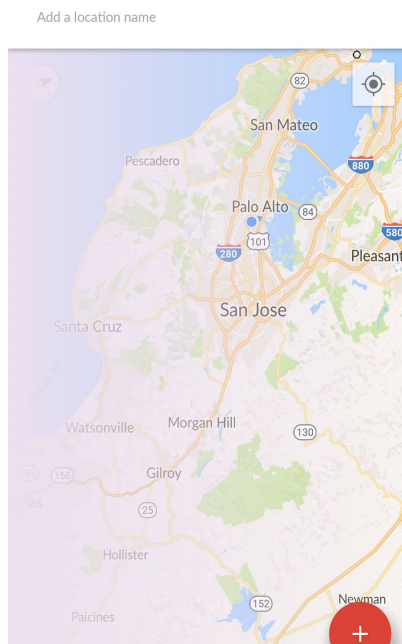
User can select the wifi or bluetooth name from the saved name in create screen.

User can disable or delete a trigger.

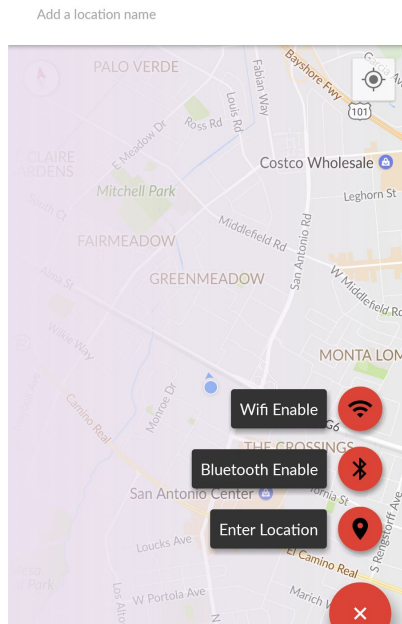
User Interface Mocks

These can be created by hand (take a photo of your drawings and insert them in this flow), or using a program like Photoshop or Balsamiq.

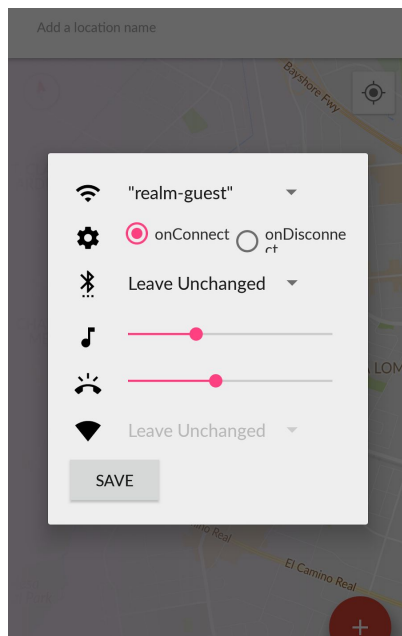
Main Screen



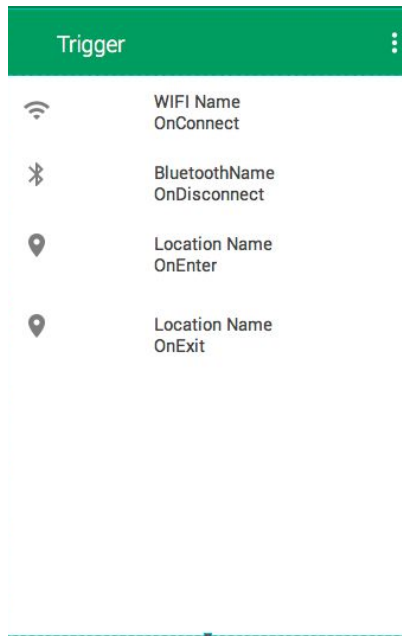
Screen when clicked on plus FAB button



Custom Dialog When clicked on Wifi,Bluetooth FAB or when clicked on MAP



Screen when swiped right from main Screen-List of triggers



App Widget



Key Considerations

How will your app handle data persistence?

Data is stored in SQLiteDatabase

Describe any corner cases in the UX.

Corner cases are requesting the user to enable GPS/WIFI or Bluetooth when disabled using toast.

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

Clans/FloatingActionButton - To display advanced FAB

ButterKnife - To reduce the boilerplate code

Describe how you will implement Google Play Services.

Location Service - to get the current location for the location trigger trigger
Map - To display map to select a location

Next Steps: Required Tasks

Task 1: Project Setup

- Create a project in google play services and enable Google Map API and get a API key and add it manifest file
- Add FAB and ButterKnife library to project level gradle file.
- Add permission to access Location,Bluetooth and WIFI setting in manifest file

Task 2: Implement UI for Each Activity and Fragment

- Create a new project with basic activity and Min API level 16.
- Add a View Pager to basic Activity to get sliding screens one for Displaying maps and other for displaying list of triggers.
- Create a new Fragments "Profile Fragment" and "Location Fragment"
- Create a new "FragmentPagerAdapter" to ViewPager.

Task 3: Design a SQLiteDatabase to store trigger

- Create TriggerContract,TriggerDBHelper, class to create a database and a table to store trigger values.
- Create a Content provider class to insert,query and update the table.

Task 4 : Receiver class to know the change in status of WIFI and BLUETOOTH

- Create a Broadcast Receiver class to get Wifi and Bluetooth connection changes.
- Create Utility class to change Wifi,Bluetooth and sound setting.

Task 4: Services to query DB and Geofence activities

- Create an Intent Service to know when the user entered the added location
- Create an Intent Service to enable the trigger whenever broadcast intents are recieved.

Task 5: UI creation

- Create UI to display list of profiles "Profile Fragment" and load the UI using Loaders.
- Create a Adapter class for the Recycler view to display the list of profiles

- Create a dialog fragment to create a profile.

Task 6 : Geofencing

- Initialize google Client and its callback
- Create a Geofence Request and location for geofencing.

Task 7 : App Widgets

- Create the AppWidgetProviderInfo metadata and AppWidgetProvider class
- Add the above class and xml in manifest file.