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1. After you’ve completed all the sections, download this document as a PDF [ File → Download as PDF ]
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**GitHub Username**: o4wcoder

Volume Manager

# Description

Don’t you hate it when that one person has their phone loudly go off during a meeting or at the movies? You don’t want to be that guy, right? Well, with the Volume Manager App you won’t! Volume Manager lets you set up time duration when your system volume settings will automatically change when you entire this time period. So say you have a recurring meeting from 3 pm to 4 pm every Wednesday at work; you can create a profile to repeatedly turn your volume settings to vibrate or off during that period every Wednesday so you won’t disturbed you coworkers if you get a call or any other type of contact. How about having a volume profile where you phone volume turns off every night at a specific time and then comes back on when you wake up? No more annoying email buzzes or beeps in the middle of the night!

With Volume Manager you can also create a volume profile around a specific location. By selecting your location on a map, you can create a fence around your location, that when entered will change you volume settings to your desired settings when you enter that location. The volume settings will return to the previous setting when you leave the location. This feature can make sure your phone is quite every time you enter your church or school for instance. You can also search for any location on the map and create your volume settings at locations even if you are not currently there.

The convenient widget will allow you to fulling control your volume profiles from your home screen, or simply see if you are currently under one of your pre-defined volume profile’s control.

# Intended User

Volume Manager could be used by any one, but it greatly benefits people that routinely go to places where they should silence their phone like office workers and students.

# Features

List the main features of your app. For example:

* Saves information
* Takes pictures
* Other features like that

# 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.

## Screen 1



Replace the above image with your own mock [ click on the above image, then navigate to Insert → Image… ]

Provide descriptive text for each screen

## Screen 2



Replace the above image with your own mock [ click on the above image, then navigate to Insert → Image… ]

Provide descriptive text for each screen

Add as many screens as you need to portray your app’s UI flow.

# Key Considerations

### How will your app handle data persistence?

Data for each volume profile will be handled with a Content Provider. There will be one table for the main volume control settings. And a second table containing Location information.

Preference Menu settings will be stored in shared preferences. These will be the required settings.

* Enable Notifications
* Geofence Unit Measurements (meters or feet)

### Describe any corner cases in the UX.

For example, how does the user return to a Now Playing screen in a media player if they hit the back button?

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

For example, Picasso or Glide to handle the loading and caching of images.

# Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and decompose them into tangible technical tasks that you can complete incrementally until you have a finished app.

## Task 1: Project Setup

* Install libraries for Google Play Services in build.gradle file and AndroidManifest.xml
* Get and setup required Google API Keys
* Create Profile Model class. This will contain all the settings for a single volulme control profile.
* Create Content Provider
* Create AndroidTest functions to test the Content Provider. Verify it’s working before proceeding.

## Task 2: Implement UI for Main Activity and Basic Profile Detail Fragment

The main Activity will consist of tow tabs. One for Basic profiles and the other for Location profiles. Each tab will contain a ListView that will display the list of profiles that have been created. A PagerView will connect the two tabs

Tasks:

* Create MainActivity UIthat contains two tabs and a PagerView
* Add ListView for the Basic Profiles.
* Create the UI for the Profile Detail Fragment. This is where you will set the start and end times of a profile along with the volume settings at each point
* Link Content Provider to Main Activity and Detail Fragment. The Main Activity will have the ability to add a new Profile Row to the Content Provider and the Delete a Profile Row. From the Detail Fragment you can add, delete and update a Profile row.

## Task 3: Create Backend Services and Receivers

Describe the next task. For example, “Implement Google Play Services,” or “Handle Error Cases,” or “Create Build Variant.”

Describe the next task. List the subtasks. For example:

* Create layout
* Something else

## Task 4: Your Next Task

Describe the next task. List the subtasks. For example:

* Create layout
* Something else

## Task 5: Your Next Task

Describe the next task. List the subtasks. For example:

* Create layout
* Something else

Add as many tasks as you need to complete your app.

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