#### Description

**Intended User** 

#### Features

#### **User Interface Mocks**

Screen 1

Screen 2

Screen 3

Screen 4

#### **Key Considerations**

How will your app handle data persistence?

Describe any edge or corner cases in the UX.

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

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

#### Next Steps: Required Tasks

Task 1: Project Setup

Task 2: Implement UI for Each Activity and Fragment

Task 3: Create Local Storage Provider

Task 4: Create Notification Component

Task 5: Create Task List Widget Provider

Task 6: Create Button Shortcut Widget Provider

Task 7: Review Instrumented and Unit Tests

Task 8: Review Material Design Guidelines

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# Don't Let Behind

## Description

Lot of us just need a little heads up or some scrap of paper to remind what is not possible to do in the exact same point in the time that an event happens or a task appears. Maybe we can spend some time in a day during a coffee or a taxi ride to set the things up.

Imagine that you want to buy flowers to your girl or you got an email by a friend that still needs your piece of code to save the galaxy or even your mummy calling you to lend a hand with an social media post.

You can can keep this needs altogether in a single view to take care of it in some free time in your agenda. Just make a point and choose when to get remembered for.

Have fun!

## Intended User

Anyone who needs a help in remembering short things during or between days. You, mom, dad, dog, friend, girlfriend, whatever ...

### **Features**

#### Main features:

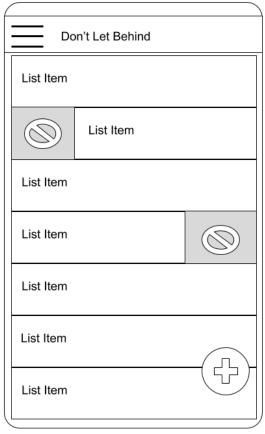
- Save information about tasks
- Show a list of tasks to conclude

#### Other features:

- Notification reminder for tasks
- App Widget button shortcut to add a task
- App Widget list of tasks to conclude

### **User Interface Mocks**

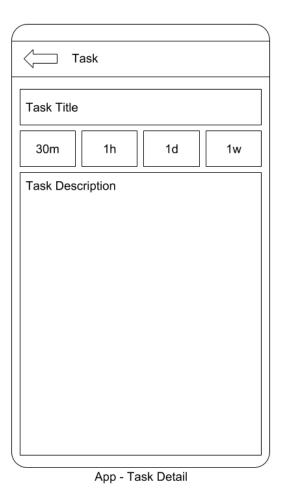
#### Screen 1



App - Task List

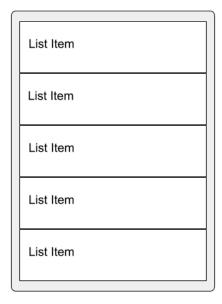
- It's the app main screen. It will show all the tasks that are not concluded.
- The app stores all tasks locally and a concluded task will be removed from the local storage.
- To conclude a task the user will swipe (right or left) activating the delete behavior.
- The float action button will start an empty Task Detail activity to register a new Task.
- All the items in list can be touched starting the Task Detail activity filled with the Task data to edition.

#### Screen 2



- This activity will be empty for a New Task action or filled for a Edit Task action.
- This activity is called by the App Widget Task List (when will be filled with data) and by the App Widget Button Shortcut (when will be empty).
- The "timer" buttons sets the trigger for a notification to remind the user about a task. Theses buttons will not be mandatory as the user can choose to not be reminded.
- I chose to not have a save button as I will take all the inputs and changes of data persisted in local storage by the focus change listener.

#### Screen 3



App Widget - Task List

- This App Widget will show the first 5 items in Task List that are not concluded.
- All the items in list can be touched starting the Task Detail activity filled with the Task data to edition.

#### Screen 4

NEW TASK

App Widget - Button Shortcut

- This App Widget will start an empty Task Detail activity to register a new one.
- This widget is intended to be a fast way to create a Task to be reminded.

# **Key Considerations**

How will your app handle data persistence?

As this app is intended to be a light and simple, the data is stored locally handled by a content provider. The Task entity have only 3 attributes and all the concluded tasks are removed from local storage.

Describe any edge or corner cases in the UX.

The native android navigation will be sufficient to deliver the app's expected behavior. As the app have 2 app widget and both activates the Task Detail activity by an "on touch event" there is no expected behavior other than return to Task List activity or close the app.

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

There is no expectation to apply third party libraries besides the Butter Knife (com.jakewharton:butterknife) to this project as the functional requirements are well supported by the Android Framework itself.

Among the native libraries some packages like "com.android.support:design", "com.android.support:appcompat", "com.android.support:recyclerview", "com.android.support:cardview" and "com.android.support.test.espresso" are in need to be

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

There will not be any external integration for the app.

# Next Steps: Required Tasks

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

### Task 1: Project Setup

used.

This project is intended to be a fast and lightweight way to register and store eventually short tasks that occur during a day and can be taken care in a properly time. Keeping that in mind, the expectation is that the app can maintain a wide compatibility with older versions of Android platform.

The key expectations for the project configuration are:

• Target Sdk Version: 28 (Pie, most recent at the writing of this document)

- Minimum Sdk Version: 19 (KitKat, used by 7.6% devices and is the least expressive version at the writing of this document)
- Use of google's repository:
  - o google() for gradle 4.x+, Android Studio 3.x+ and gradle plugin 3.x+
  - maven custom url "<a href="https://dl.google.com/dl/android/maven2/">https://dl.google.com/dl/android/maven2/</a>" for other versions of gradle, android and gradle plugin

### Task 2: Implement UI for Each Activity and Fragment

- Build UI for Task List activity
  - Build UI behavior onTouchEventListener
- Build UI for Task List item
  - Build UI beavavior of swiping items
- Build UI for Task Detail activity
  - Build UI Widget for reminder options
- Build UI for App Widget Task List
  - Build UI behavior onTouchEventListener
- Build UI for App Widget Button Shortcut
  - Build UI behavior onTouchEventListener

### Task 3: Create Local Storage Provider

- Create the local storage entity classes
- Create the local storage database configuration classes
- Create the local storage provider classes

#### Task 4: Create Notification Component

- Create the layout for notification reminder
- Create a component class for the notification task reminder feature

### Task 5: Create Task List Widget Provider

Create the app widget provider class to the Task List widget

# Task 6: Create Button Shortcut Widget Provider

• Create the app widget provider class to the Button Shortcut widget

### Task 7: Review Instrumented and Unit Tests

• Review unit tests and instrumented tests classes

## Task 8: Review Material Design Guidelines

• Review the application of material design guidelines and key concepts