

Planarr

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Description

Planarr is a productivity to-do list app that keeps things simple, empowering the user. Set up your daily schedule, plan every part of your day. Thanks to it's cloud based storage, you won't forget a task ever again.

Intended User

The app is intended to be used by people looking to keep track of daily chores and tasks. The ideal user would keep all their plans for the future organized in the app, while not missing out on any recurring daily routines.

Features


The app should:

- Have the ability to add, edit, complete and delete tasks
- Identify the user via Firebase Auth service
- Store tasks on the cloud (Firebase Realtime Database)
- Provide a widget showing the current tasks

User Interface Mocks


Screen 1 - TaskListActivity

Tasks	Sign out
Clean room	July 16
Submit mockup	July 17
Finish Nanodegree	August 15
Succeed in life	August 16



Main screen of the app representing the tasks that need to be done, ordered by priority.

Screen 2 - TaskActivity


 New Task

Task:

Due date:

Low Priority

High Priority



The activity to add new and edit existing tasks.

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Key Considerations

How will your app handle data persistence?

The app will use a Firebase Realtime Database to store the tasks, relying on its cache to store and save new tasks offline.

Describe any edge or corner cases in the UX.

Once the user creates a task the back button will lose its functionality to go back to the task creation activity. Same method will be used for the login activity, leaving the user to press the sign-out button to return to the log-in screen. After which no back button functionality will be provided.

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

ButterKnife - to ease the EditTexts' access in UI heavy screens like the TaskActivity.

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

The 2 implemented services are:

- Firebase Realtime Database
- Firebase Auth

After the initial project setup in the console and integration in the project, the services will be implemented following the Google provided tutorials.

Next Steps: Required Tasks

Task 1: Project Setup

- Set up Firebase Console

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- Integrate SDK
- Enable Auth
- Enable Realtime Database

Task 2: Implement UI for Each Activity and Fragment

- Create LoginActivity with corresponding xml
- Create TaskListActivity with corresponding xml
- Create TaskActivity with corresponding xml
- Create item_task.xml item UI

Task 3: Set up Auth

- Implement Auth, using the real time database for debugging advantages
- Provide and implement a sign-out button in the TaskListActivity menu

Task 4: Implement Task system

- Create a “contract” class Task.java to represent the transmitted data.
- Provide storing and retrieving functions for the cloud based on UserID
- Code TaskActivity with the option to be launched for creating new and editing existing tasks
- Inflate the TaskListActivity with the new tasks
- Provide Delete functionality upon swiping

Task 5: Add widget

- Provide a home screen widget with similar functionality as the TaskListActivity's list