



# Final App Documentation

## Chott (Creative Hobby Occurrence Timer Tracker)

### *Purpose*

The purpose of Chott is to be a time tracking app for personal projects or hobbies. There are many types of hobbies, but Chott specializes on tracking creative hobbies. In Chott, creative hobbies are known as “Projects” and Chott organizes different Projects based off different specialty domains, known as “Categories”.

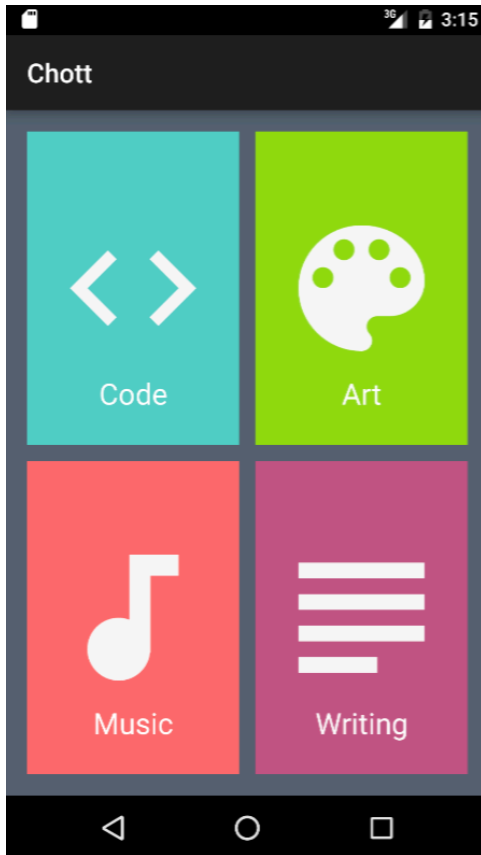
In this version of Chott, there are 4 Categories that you can choose when determining what Projects to keep track of:

- Code
  - For any Project that requires programming
- Art
  - For any Project that requires an application of visual arts and imagery
- Music
  - For any Project that requires working with sounds and making them appealing together
- Writing
  - For any Project that requires use of language to communicate visually, whether its fictional or non-fictional

When you start tracking how long you are working on a Project, Chott will keep a record of the timings for that particular session. This record is called an Entry. One Project can have many Entries that represent the different times that you worked on a Project.

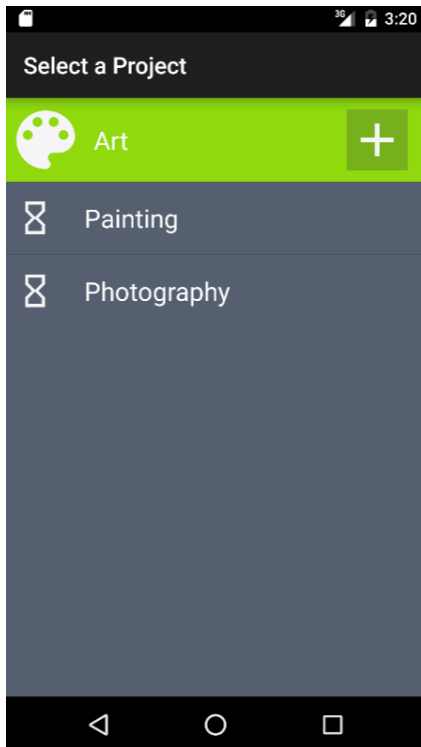
## Walkthrough

When you open Chott, you will first be presented with the Category Selection Screen, shown below:

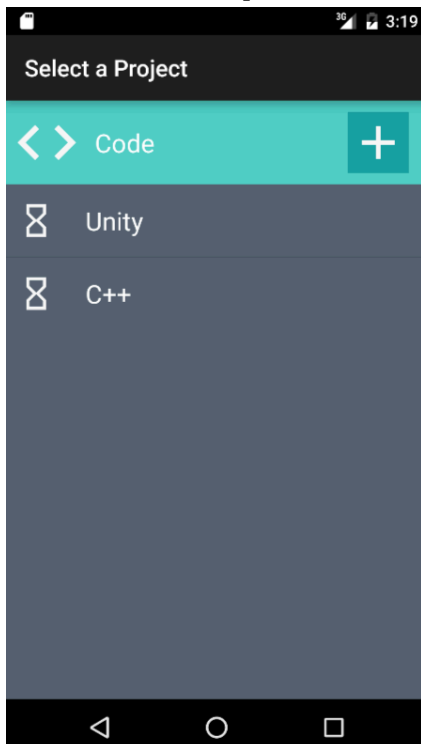


This screen shows 4 large buttons representing every Category. Every Category in the app has its own color scheme and icon, as seen above. Pressing on one of these buttons will open the Project Selection Screen as seen below.

The color scheme of the selected Category will follow through in the new screen. The below screen will have a green header if "Art" was selected as the Category. Only the Projects that belong to the chosen Category will show up. To see other Projects, select a different Category.



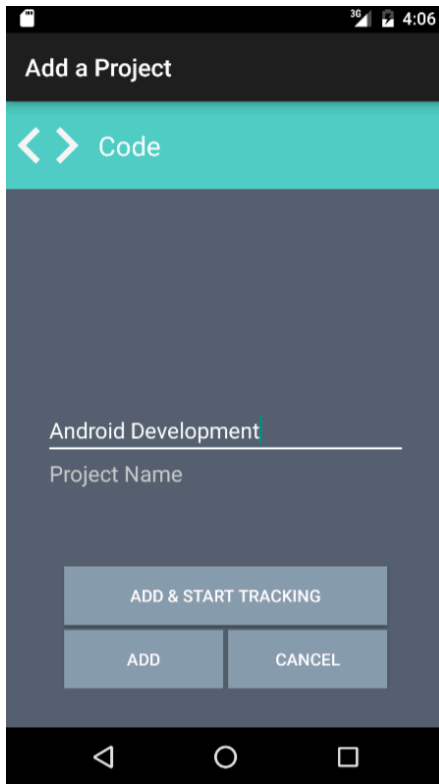
When you start Chott for the very first time, the list of Projects to track will be empty. You can add new projects, but that will be explained a little later. Existing Projects that you have been tracking should show up when loading this screen. Below is an example for the Code Category:



There are three things you can do in the Project Selection Screen:

- Start tracking time spent on a selected Project
- Look up the history of Entries for a selected Project
- Add a new Project to track

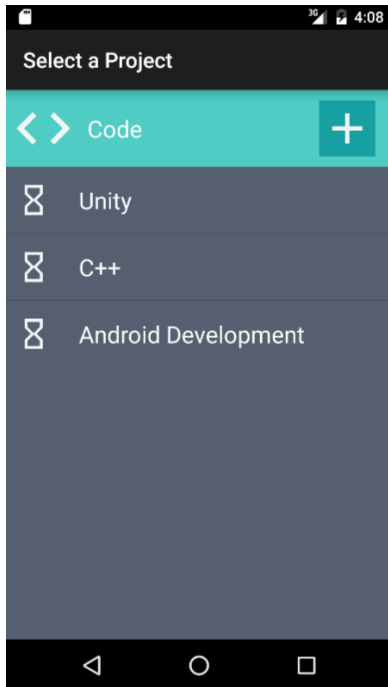
In order to add a new Project, tap on the plus button on the top-right corner. This will take you to the Add Project Screen:



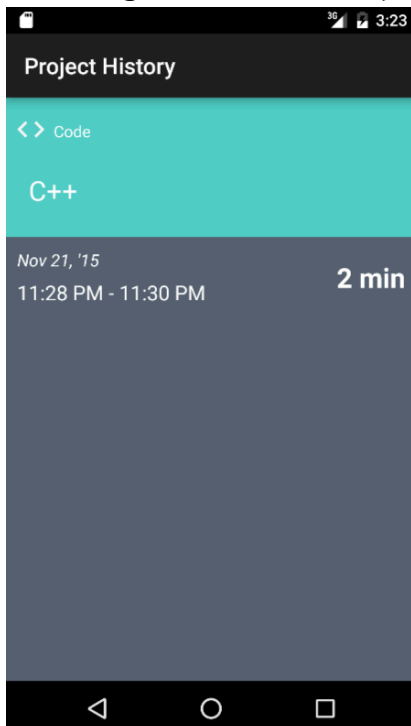
The Add Project Screen offers you to type a name for the new Project you want to track. The Project will be added to the Category that was previously selected when entering the Project Selection Screen. So for example, if you selected “Music” in the Category Selection Screen, then going to the Add Project Screen will make the new Project join the list belonging to the “Music” Category.

If you didn’t want to add a new Project, you can tap “Cancel”, and no new Project will be added. If you do want to add the Project, tap “Add”, and it should show up as a new Project listed in the Project Selection Screen. If you wanted to add a new Project with the intention of tracking it right away, there is also a third button called “Add & Start Tracking”, which will add the Project to the current Category and immediately start tracking that Project.

The screenshot below shows what happens after we tap “Add” when adding the new Project “Android Development”:



Every Project has a history of previous Entries that represent previous occurrences where you were working on a particular Project. To look at a Project’s history, tap the hourglass left of the Project’s name. Here, we’ll look at the history of “C++”:

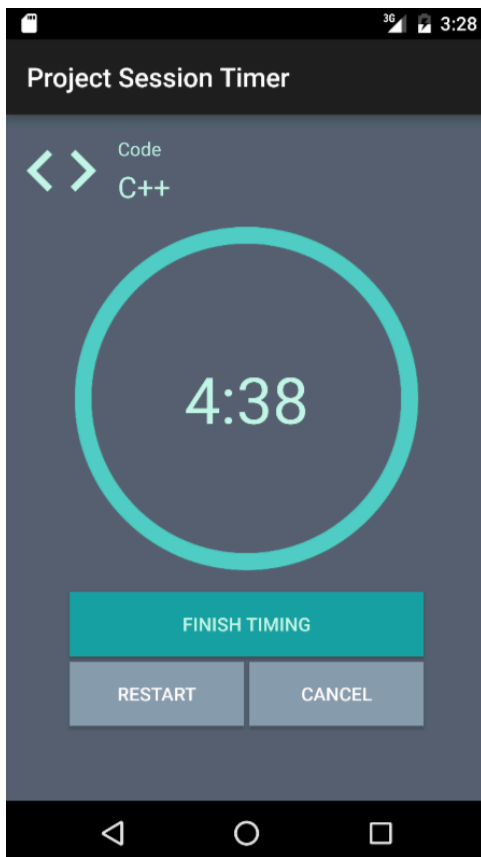


If you never tracked a Project before, there will be no Entries listed. The “C++” project above shows 1 Entry, and there would be more if this Project is ever tracked again.

An Entry shows the following information about the occurrence of that Project:

- Starting Date
- Start Time and End Time
- Total Time Duration of the Entry

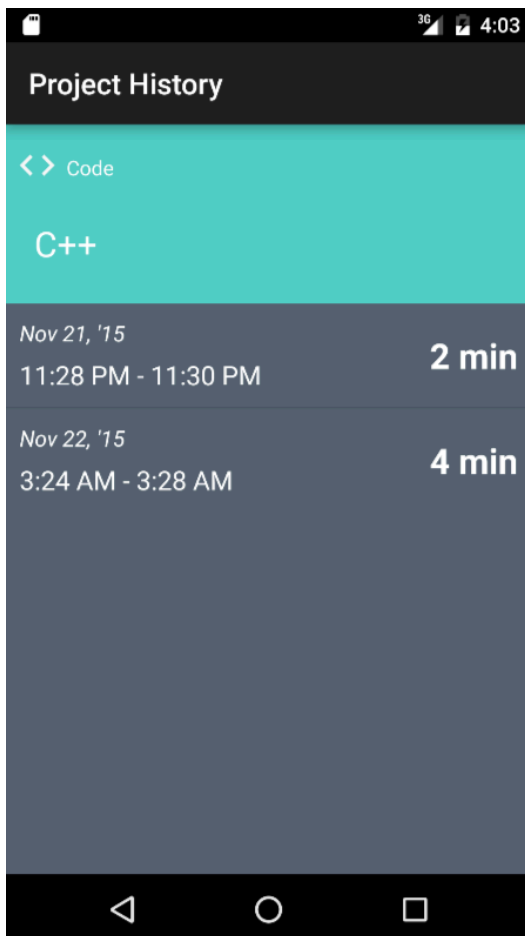
To see more Entries in the Project History Screen, you have to start tracking the Project of your choice. To do that, go back to the Project Selection Screen and tap on the name of the Project (*not* the hourglass). This will take you to the Project Session Timer:



The Timer Screen is themed based on the Project’s Category in order to give a little context about what type of hobby the user is working on. The center of the screen shows the current time spent in the current session. This time counts up every second. The time is able to format dynamically depending on whether minutes were spend in the session or hours.

If you did not actually want to track the current Project, you can press “Cancel”, and no new Entry will be created. If you were tracking the Project but you want to start over the timer, you can press “Restart”, and the timer will reset to 0:00.

If you feel you are done working on the Project in the current session, press “Finish Timing” and you will be dismissed to the Project Selection Screen and a new Entry will be made for that Project. Going back to a Project’s history, you can see a new Entry made for “C++” in the screen below:



Time durations for these Entries (on the right side) will format dynamically depending on whether a session took minutes or hours. If a session took 60 minutes or more, the duration value in the Entry will display in hours instead of minutes.

Projects and Entries are automatically serialized as JSON inside the app’s internal storage and will load again when the app is relaunched, retaining data between app loads.

## *Absent Features From Proposal*

In the original proposal specifying the features of this app, there were some features that were mentioned but not implemented due to changes in priority and tight scheduling. The following are not implemented:

- Location-aware Entries
  - Recording a new Entry from the timer was suppose to include the user's current location at the time of the session. This would have been useful to look at different places where any Project was done.
- Tab Navigation to access Projects' histories
  - Originally, there was going to be a tab to change between tracking a new Entry for a Project and looking at older Entries for that Project, but this was needlessly complicated.
  - The current implementation is more intuitive so you can quickly navigate to different parts of the app without switching tabs.
- Choosing the Category for a New Project in the Add Project Screen
  - It implement this would have overcomplicated the navigation of the app because the current implementation cannot dynamically switch what is the current selected Category, *except* when the user is in the Category Selection Screen.
  - For example, if you select "Art" for the Category, but then you want to add a new Project to the Category "Music", this would have required complicated conditional navigation on whether the user wanted to track the new Project immediately or track it later.
- Deleting Projects
  - The proposal already mentioned that this was a low priority feature
- Pausing the Timer when tracking a Project
  - This would require complicated logic when finding the time difference between the paused time and the resumed time.