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Pomodoro timer

Description

Reference: https://en.wikipedia.org/wiki/Pomodoro_Technique

A convenient, portable method to track and time pomodoros, especially during group meetings to allow appropriate short and longer breaks.

This is conceived as release one of a three release cycle.

Intended User

The intended users are any business or technical users who typically have meetings or heads-down tasks over extended periods of time. The application will allow users to structure their work or meetings so as to maintain mental alertness and physical sense of well being, as well as to track timing and accomplishments.

The primary targeted platform is mobile phone as the intent is to be convenient and portable, even during breaks.

Intended users are expected to be fairly tech savvy so support for older Android versions is not considered a priority.

Features

- Starts events with a specified work ./ break timing profile.
- Signals when a work or break session is complete.
- Saves information so that adherence and productivity can be correlated.

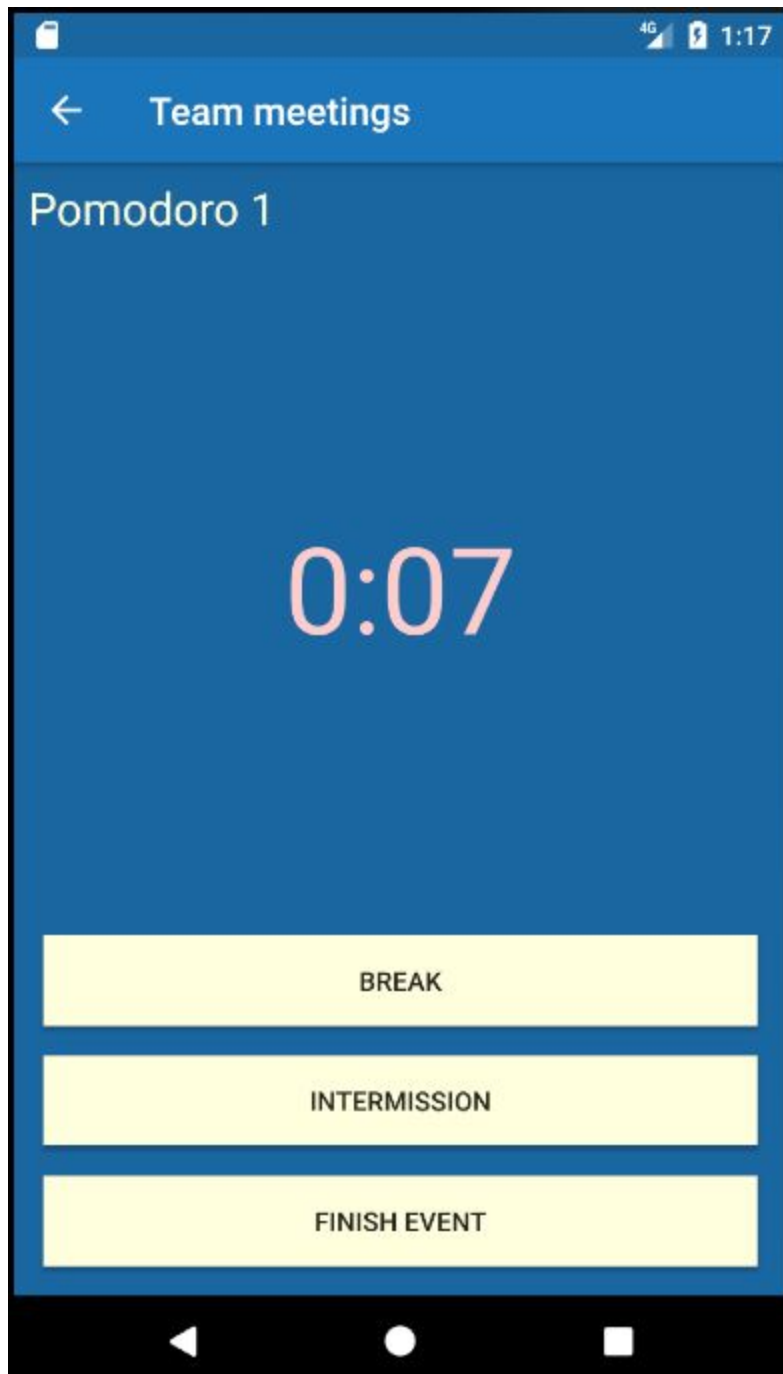
User Interface Mocks

Screen 1

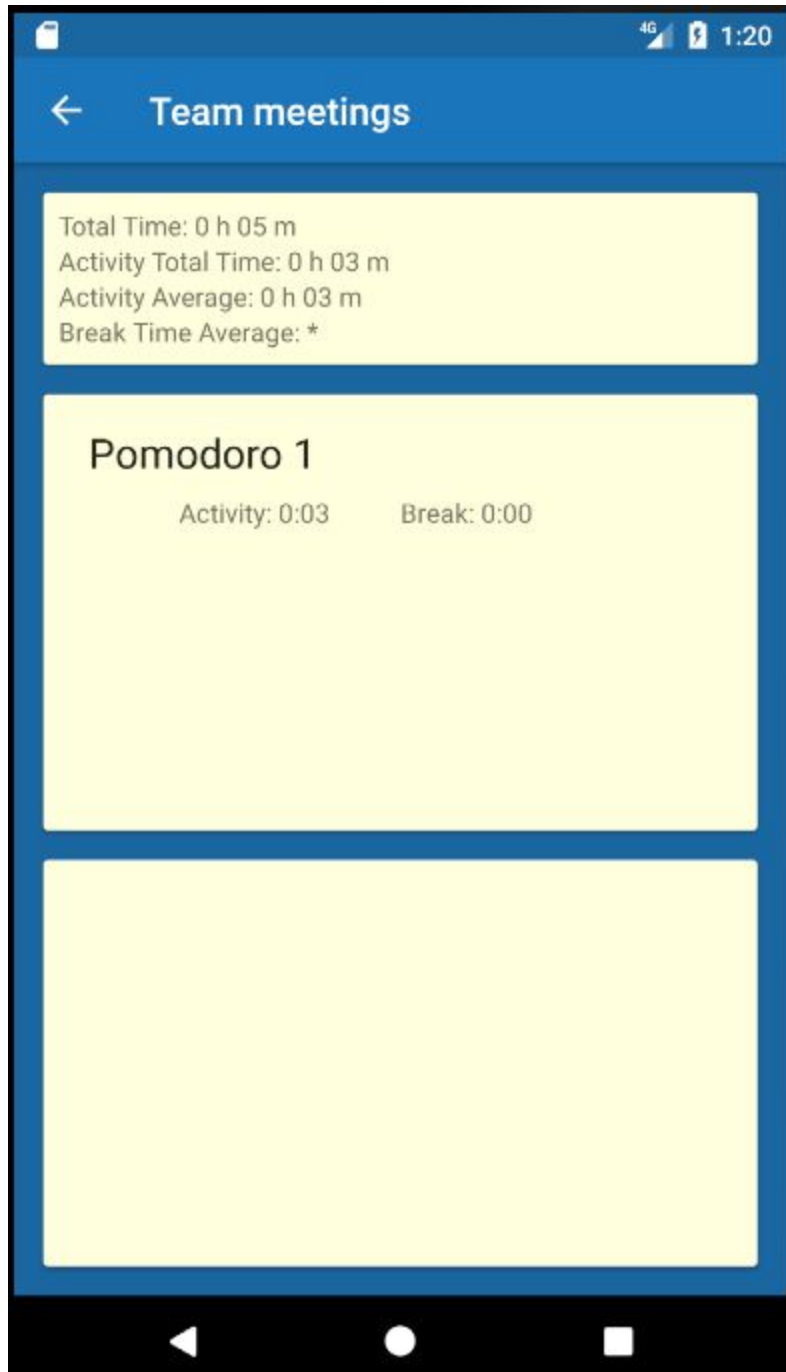


Main activity screen shows a list of current and past events, and allows the user to create a new event, rejoin an existing one, or view statistics of a past event.

Screen 2



In progress screen views the timer for the currently active pomodoro, status (active or on break) and allows simple transition between states (active -> break -> next pomodoro, or active / break -> intermission, or active / break / intermission -> end event). Timer counts up to show elapsed time and optionally sounds a tone when the allotted time is reached.

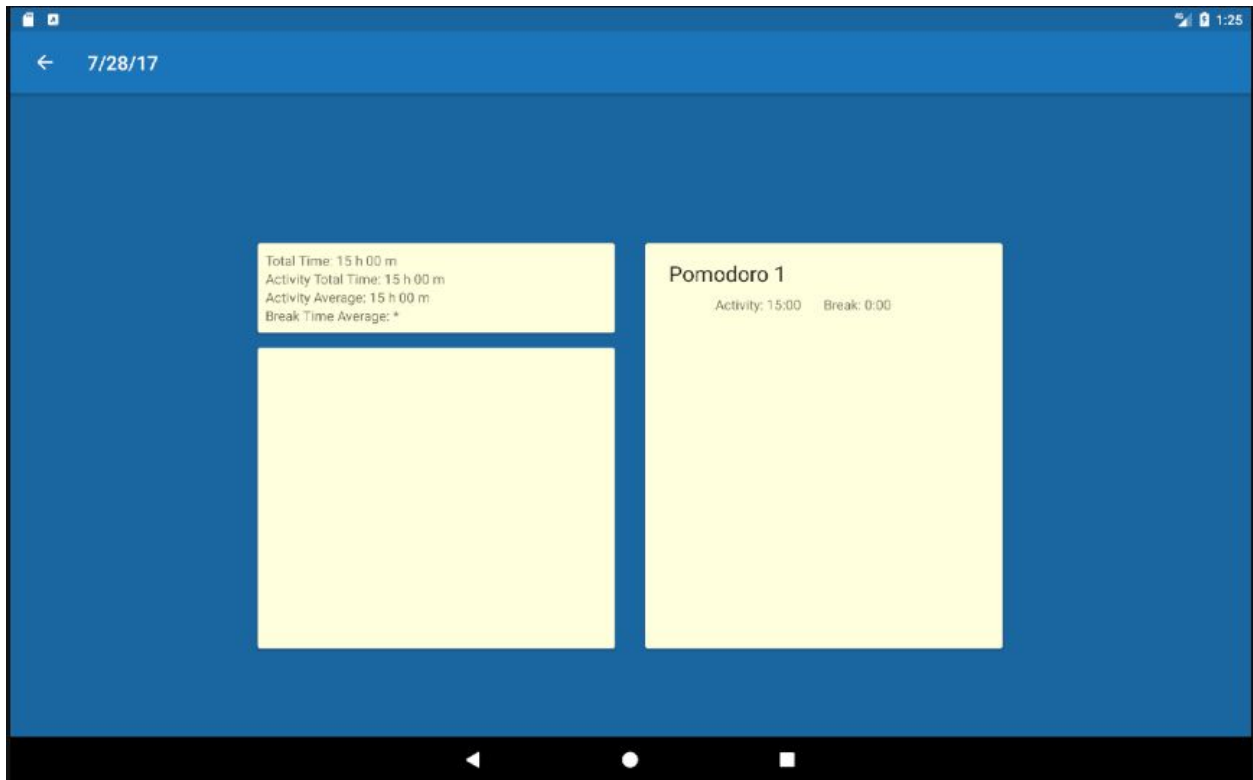
Screen 3

Summary screen shows when selecting a past event from the main activity, or when you finish an activity. It shows basic statistics and details of the activity. In future when shared events are possible, the lower section may show a list of people who joined the meeting.

Alternate layouts

The primary target is mobile phones. Layouts for landscape and portrait modes will be required.

Tables will be supported but the primary goal of tablet style layout is to keep the UI tight and coherent by preventing elements from spreading out excessively.



Key Considerations

How will your app handle data persistence?

In this phase, data persistence is local through a content provider. Later phases will enable Firebase Auth and Firebase Database to allow sharing of tasks and timing with team members. (For example, team members who are remote will be able to see pomodoro and break timing.

Describe any edge or corner cases in the UX.

Primary edge case is if the user navigates away on their phone or the phone goes to sleep, they must be able to recover the current state of the timer.

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

No external libraries other than Android support libraries.

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

No external services in this release cycle.

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

Create project. Configure gradle build with libraries for recycler view and other required support libraries.

Task 2: Implement UI for Each Activity and Fragment

- Build main activity, recycler view, adapter, handler for FAB.
- Add timer activity to display current pomodoro unit timer with actions to move from work activity to break, continuing until the task / event is ended.
- Add event summary screen.

Task 3: Implement Content Provider

- For this release cycle, implement the data model and content provider to the SQLiteDatabase.

Task 4: Implement Event Logic

- Logical transitions to enter an event, start timing, move between states - waiting, activity, break, intermission, end of event.

Task 5: Implement Event Summary

Read the final state of the event and display statistics and details.

Submission Instructions

- After you've completed all the sections, download this document as a PDF [File → Download as PDF]
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