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Focusteps

Description

Studies show that a simple exercise such as walking on a regular basis can increase the performance of our brain, improve concentration, focus, and cognitive function. Focusteps promotes this in a fun way where you can see picture more clearly as you walk toward your daily target.

Intended User

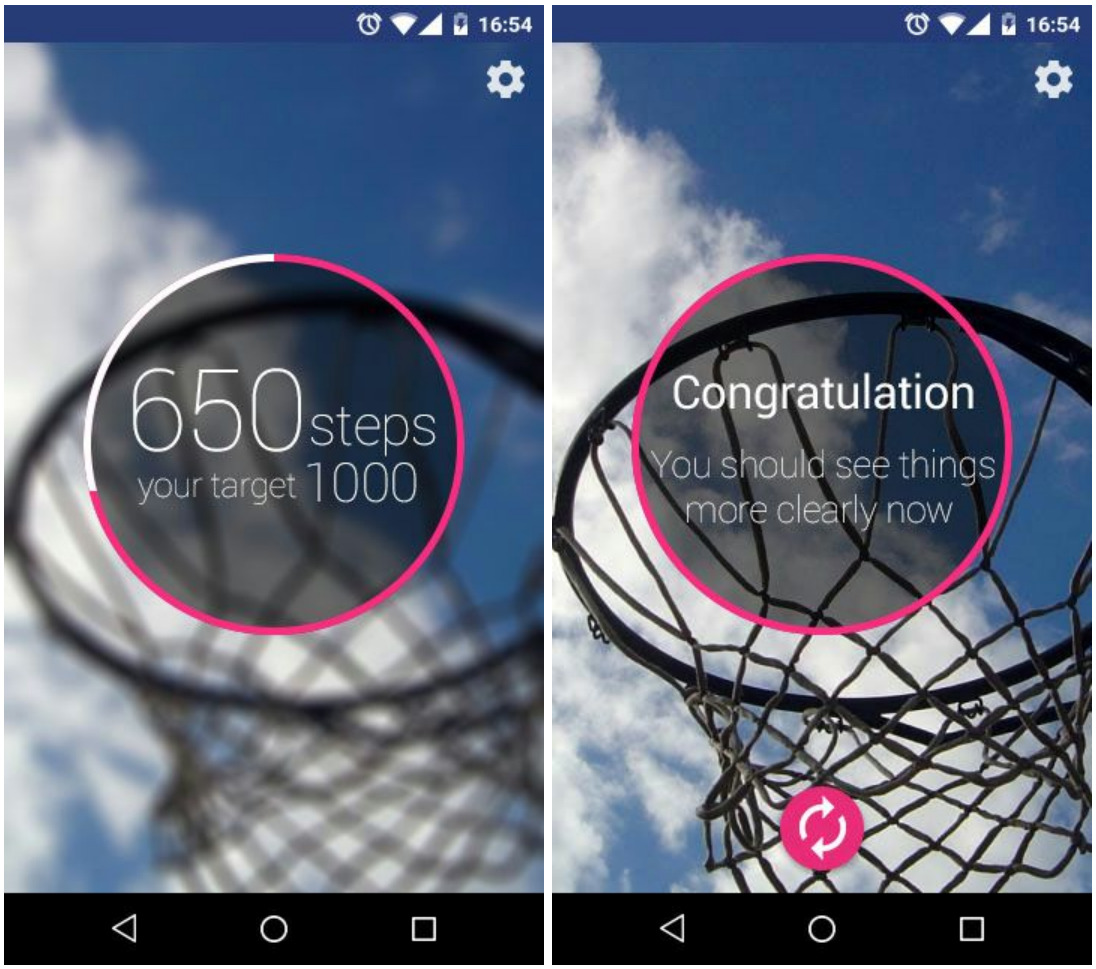
Anyone who wants to increase their brain performance and get fit everyday but does not have much time for serious exercise. You just need to walk, even without having to leave the building.

Features

- Daily picture as an app background in blurry and get more focus as the user walks toward target
- User can set the daily target of steps
- User can see the progress of their step for today
- User can reset the journey when they finish the target before the day is over

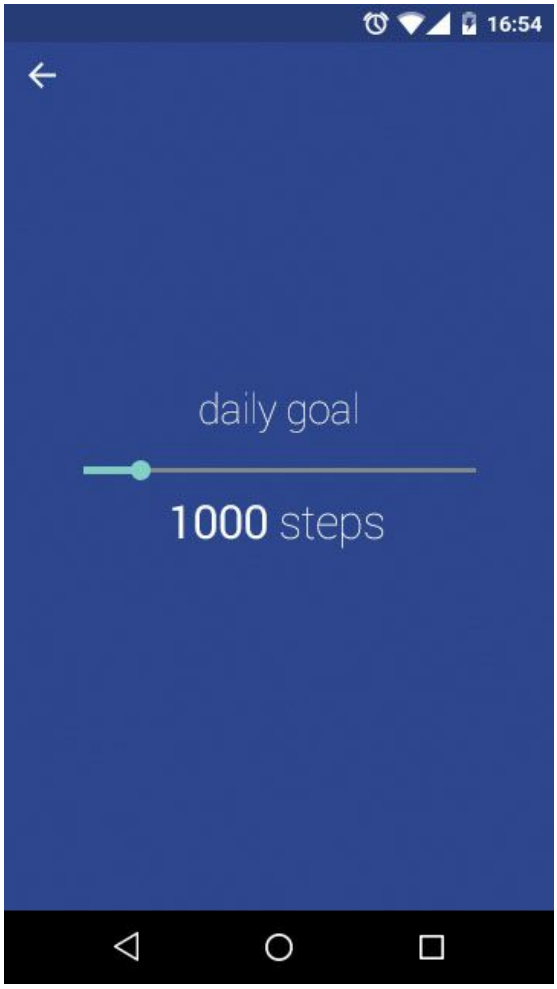
User Interface Mocks

Main screen



Main view with circular progress view and number of steps done and target in the middle. The background image will be more focus and clear when the number of steps get closer to the target. Once the target is achieved, there is a refresh button to reset the journey with new picture.

Setting page



Setting page where use can set his/her daily target. It's a simple progress bar view where user can drag to change the daily target of steps.

Key Considerations

How will your app handle data persistence?

The live steps data will be fetch from Google Fit sensor data API, and will be saved in SQLite.

Describe any corner cases in the UX.

There are basically two main views in this app, so there will be no complicated flow. The only thing that need to be clear to user is when the day start, the progress will be start from zero with the new background picture.

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

- Google Play Service to get steps data from Google Fit Sensor API
- Glide (https://github.com/bumptech/glide) to grab and cache image from internet and show it as app background
- Blurry (https://github.com/wasabeef/Blurry) to make blurry effect
- Fit chart (https://github.com/txusballesteros/fit-chart) for circular progress view

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

- Create a new project in Google Developer Console to use Fitness API
- Create a new project in Android Studio
- Setup gradle build to:
    - Add Google Play Service library
    - Add Glide library
    - Add Blurry library
    - Add Fit chart library

Task 2: Implement UI for Each Activity and Fragment

- Build UI for MainActivity with random image from Unsplash.it (https://unsplash.it/360/640/?random)
- Build UI for setting page

Task 3: Implement Google Fit Sensor API

Access raw sensor data from Google Fitness for live steps.

Task 4: Implement blurry effect based on steps data

Blurry library has a method so that the blurriness can be set using an integer. Calculate the percentage of number of steps / target and convert to integer so that it reflect the blurriness of the background picture.

Task 5: Implement setting page

A simple setting page with progress bar view where use can drag to change the daily target of steps. Save this setting into shared preference.
