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GitHub Username: msgeorgem

GeoTracker

Description

GeoTracker tracks your daily movement activities on your command. GeoTracker uses your Smartphone GPS module to track your walks, runs, rides, drives or even flights. You can choose predefined activity or create a new one and track yourself in the way you like.
Free version of GeoTracker measures distance, time, speed and of course tracks your geographic position. You can share your results with your friends via facebook, instagram. Paid version of GeoTracker offers free version functionality and some additional functions like No ads, downloading track to a csv table version.

Intended User

GeoTracker is for anyone you wants to track their movement activities and share them with friends.

Features

List the main features:
- Tracks users activity
- Saves tracks in local database
- Shares tracks with friends
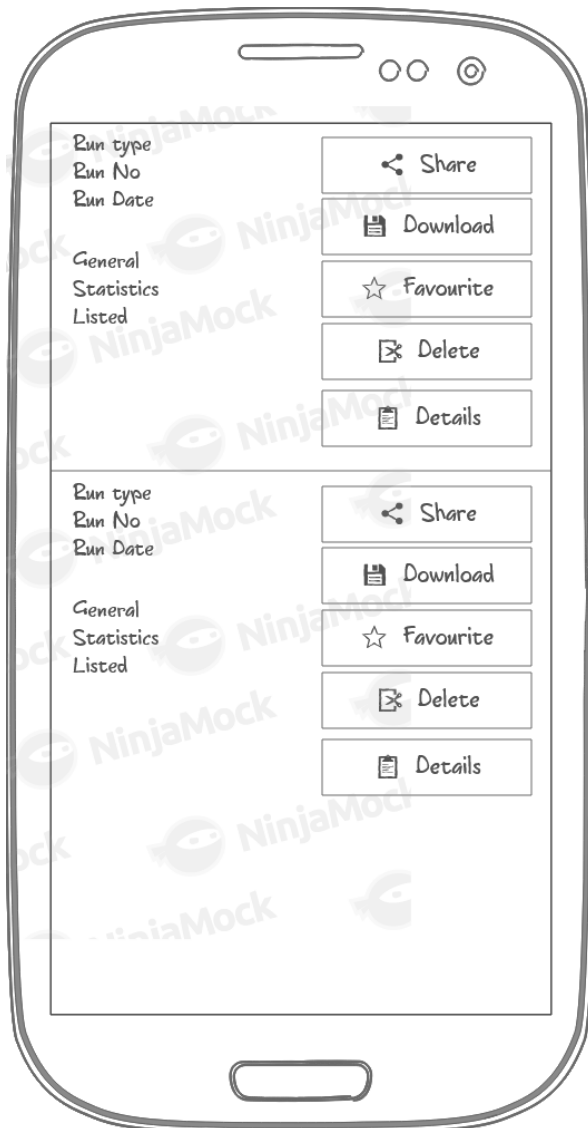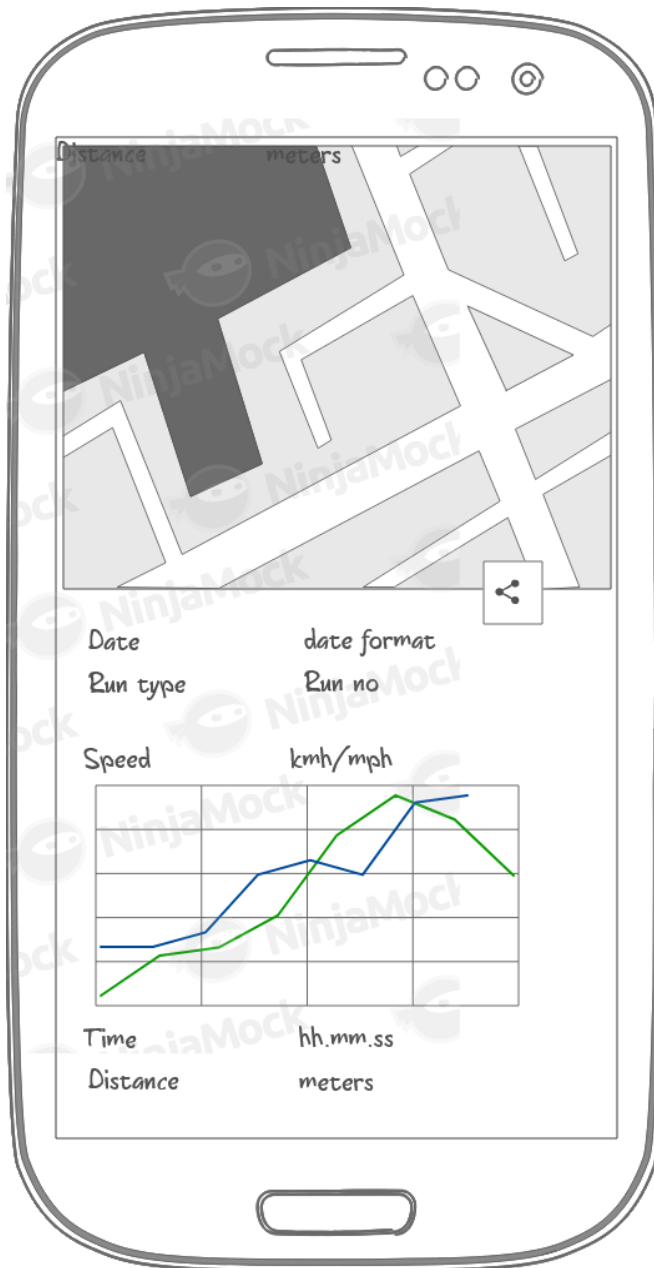- Maintenance of saved tracks(deletion, downloads)

User Interface Mocks

Screen 1

Main screen to start tracking

Screen 2

Run type
Run No
Run Date

General
Statistics
Listed

- ⇜ Share
- 🖫 Download
- ☆ Favourite
- ⌦ Delete
- 📋 Details

Run type
Run No
Run Date

General
Statistics
Listed

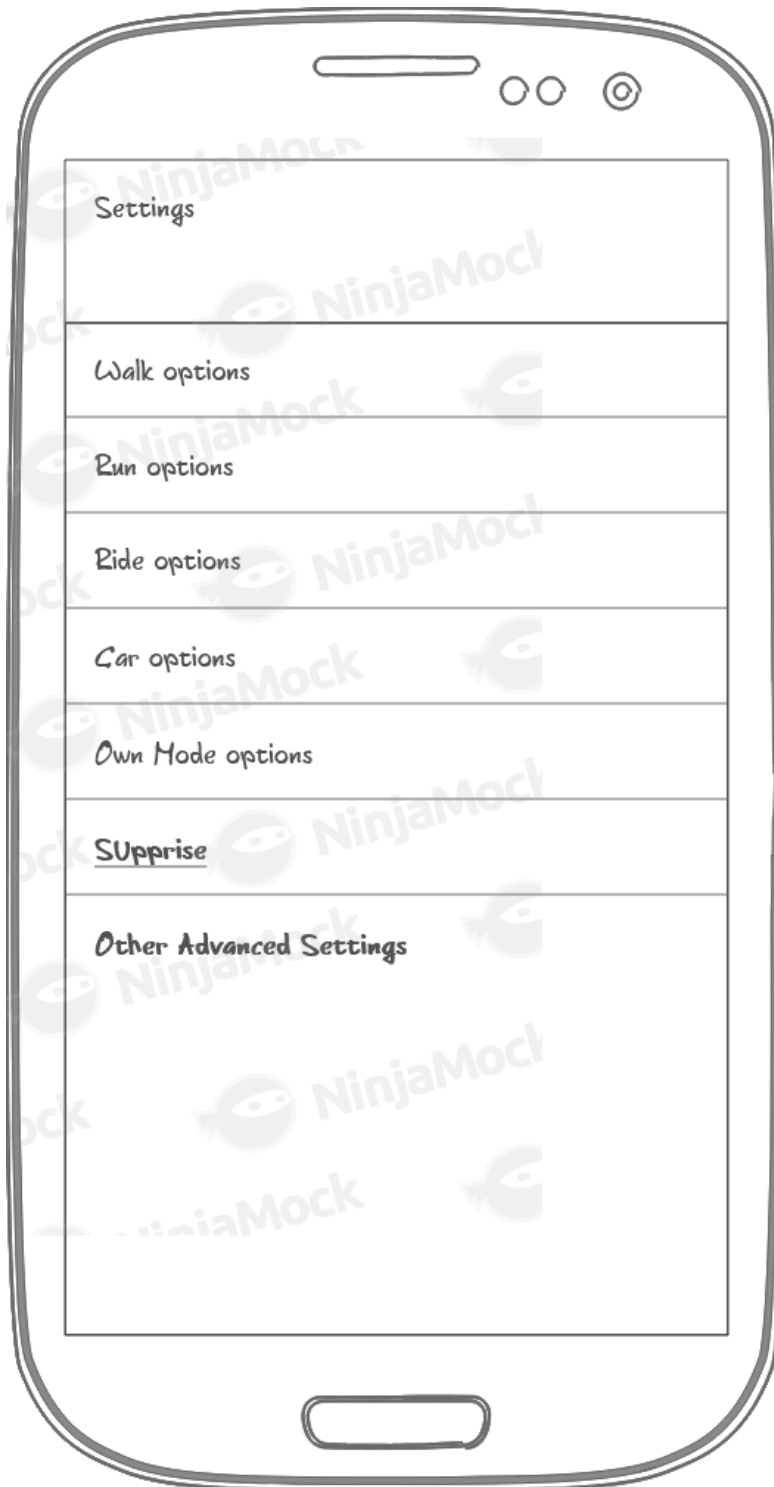- ⇜ Share
- 🖫 Download
- ☆ Favourite
- ⌦ Delete
- 📋 Details

List of tracks saved after tracking

Screen 3

Details of the recorded track with map and additional statistics

Screen 4

Settings

Walk options

Run options

Ride options

Car options

Own Mode options

SUpprise

Other Advanced Settings

Settings drawer

Key Considerations

How will your app handle data persistence?

Sql Database with Content provider.

Describe any edge or corner cases in the UX.

1. On the main screen user chooses the kinds of movement to be tracked.
2. When tracking is started the main values like speed, time, distance are shown.
3. Tracking can be started from the main screen or widget(option)
4. Tracking can be stopped from the main screen or notification bar or widget(option)
5. (Option) tracker will have a timer stopping the tracker
6. Notification bar will show time elapsed and distance(option)
7. (Option)Widget will show time elapsed, distance, average speed
8. When user exits running app the notification appears that the tracker is running.
9. User can stop the tracker from notification bar or go back to the app .
10. (Option) As an option there will be a widget having similar functions as above mentioned notification bar
11. In the list of tracks user will have options:
    - to open detail activity with map and the track is drawn with some statistics
    - to delete the track
    - to download the track in csv table (paid)
    - to make track favourite
    - to share the track
    - (option) add background photo
12. Preferences will have option to switch themes between light and dark
13. Still not decided of the final number of functions, there are a lot more in my head!

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

Location - tracking activities
Maps with polylines to present the recorded track

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

I will be using location services

Next Steps: Required Tasks

Task 1: Project Setup

1. Create a database. Database with have at least two tables
   - Main table collecting all GPS reads
   - Helper table collecting main track data
2. Create a track adapter using cursor recycler adapter to present list of track in the fragment.
3. Implement location services to record and save in a database
4. Build Main activity, Detail Activity and corresponding fragments (final look not know yet)
5. Build notifications and widget(option)

Task 2: Implement UI for Each Activity and Fragment

List the subtasks. For example:
- Build UI for MainActivity
- Build UI for Detail activity
- Build UI for list of tracks
- Build UI for widget(option)

Task 3:Build settings, sharing options, notifications

- Build settings activity
- Build notifications
- Build sharing options

Task 4: Make app material

- Polish the App

Add as many tasks as you need to complete your app.

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