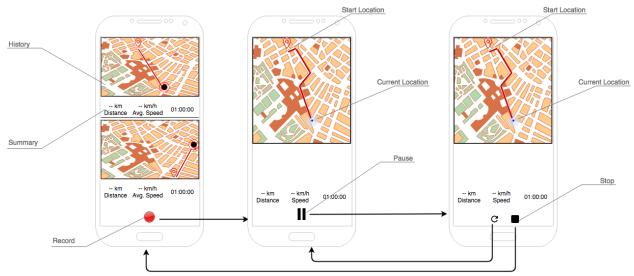
### TRACKME APPLICATION

We're going to create an application which helps user tracking speed, distance and duration during workout sessions. The UI mockup is described below:



## 1. General requirements

- ❖ The application is required to support <u>Android 5.0+</u>
- ❖ User should be noticed by the application to grant <u>all permissions</u>: Location Permission, Location Service, etc.
- Data structure, Database storage are decided by Developer

# 2. History

- List out all workout sessions. User may have <u>unlimited sessions</u> in history, latest session is on the top of list
- Application is required to work smoothly while user scrolls down to view sessions in past
- ❖ Each session: Display Map Route, Distance, Duration and Average Speed
- User taps on Record button to start a new session

### 3. Record

- Record Current Speed, Current Distance and Duration
- Display <u>Current Speed</u>, Current Distance and Duration
- Start Location should be displayed on the Map
- Current Location of user should be displayed on the Map
- Route should be displayed on the Map
- User should be able to Pause, Resume, Stop current session
- To save battery, the application is required to be able run in background or when phone screen is off
- When the application is in background and there is active session is being recorded, if user opens the app again, it should navigate user to active session (Record screen):
  - > Current Distance, Current Speed and Duration are required to be updated correctly when user opens the app from background
  - > Route Map is required to be updated correctly when user opens the app from background
  - > Pause, Resume and Stop button should keep its state when user opens the app from background

#### Note:

- Current Speed: Realtime speed of user, calculated by GPS or (v = s / t)
- Average Speed: Average of all speed information recorded during workout session
- Source code is required to be uploaded to personal GitHub account