

Run Buddy

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What is RunBuddy?

- Run Buddy is a way for people to run against other runners asynchronously and in different locations
- The app will feed you details of the race such as
 - Distance ran
 - Pace
 - Time elapsed
 - Your progress vs competition
- A user will be able to create or join race, participate in a race, and then review their results.
- Performance metrics, health metrics, and race results will all be captured for each user and race



Our Significant APIs



Supports path drawing and various other map functionalities with google.gms dependency 17.0.0 (with SupportMapFragment).



Vital status monitor, supported by Oauth2 authentication. Numerous libraries are needed for acquiring data from app.

Simple API



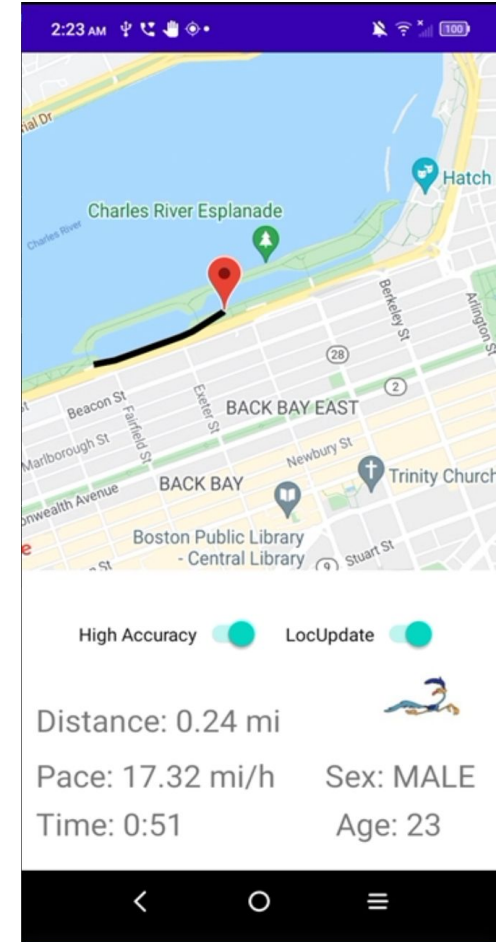
Allows the user to sign in and sign up in our current implementation. Will be used to keep data such as runs later in our research.



Allows us to access the local spotify app and retrieve information about current user status and control user actions.

Google Maps API

- We read gps data from the user to track the route they run
- Methods available:
 - Gps
 - Wifi/Cell Tower
- We configure the location request to have an set interval and precision perfect for outdoor running (Quick intervals and high accuracy)
- A polyline is used to draw the path on Google Maps in real time
- Distance, Pace, Time are examples of stats we measure



Fitbit API



- With the fitbit API we are able to retrieve and monitor data such as
 - Heart Rate
 - Weight
 - Name
 - Age
 - Gender
 - DOB
- We plan to show to the user in real time their heart rate as they run in a race
- Heart rate and activity are the only intraday data we can pull, everything else is daily
- We are exploring other uses of fitbit data