Taxi Share App

Summary: An app that allows users to find users who are traveling to a similar locations and to group them together in order to hail a taxi and easily split the cost of the taxi. Also allows users to set preferences for talkative company or reticent company. Primarily developed for android first

Aspects:

* An Android app
  + Login with facebook profile
    - Facebook sdk for android https://developers.facebook.com/docs/android/getting-started
  + Gets users current location and requests a destination and company preference
    - Geofencing - http://developer.android.com/training/location/geofencing.html
  + Requests Date of travel
    - Standard Android sdk
  + Once it finds users to match with, sets up a group chat with them to schedule a meetup
    - http://blog.hipmob.com/post/65053125695/6-best-sdks-for-adding-group-chat-to-your-mobile-app
  + Suggests a certain location to meetup
    - http://developer.android.com/guide/topics/location/strategies.html
  + Rating feature for other users of other people
    - ????
* A web based server
  + Manages matching algorithm for the users
    - https://www.google.com/search?q=location+based+matching&oq=location+based+matching&aqs=chrome..69i57j0l2j69i61.3569j0j7&sourceid=chrome&es\_sm=122&ie=UTF-8
  + Retains info about users so that future decisions are made without user needing to do anything
    - <http://web.stanford.edu/class/ee368/Android/Tutorial-3-Server-Client-Communication-for-Android.pdf>
    - Use php, sql
    - <http://www.infoq.com/articles/rest-webservice-spring-boot-aerospike>
  + Sends an email using sendgrid to the user, verifying registration and notifying users when a match is found?
    - Doing this because sendgrid is a sponsor of hophacks
  + Communicates with phones
    - ^^
  + Gets rates of taxi’s in the local area, and calculates suggested cost per person
    - http://www.numbeo.com/taxi-fare/
  + Hails a taxi???
    - ???
  + Calculates service fee
    - Arbitrary atm