Proposal outline

Background/introduction

* If we begin from existing software or code, we need to talk about it, and talk about the parts we will expand on
* **What is taxi sharing?**
* **What other apps are there?**
  + **UberPOOL**
    - uberPOOL express, and the other different varieties of UberPOOL
  + VIA
    - Essentially a shuttle service, picks up and drops off at specific locations
  + **Lyft Line**
    - Like Uber POOL
* **How it works?**

Overview

* Clear and concise
  + **Motivations** 
    - **Why are we doing this?**
    - **where are we aiming to get?**
      * **Autonomous vehicle taxi sharing (not us, far future)**
  + Main objectives
    - What is it?
      * Taxi sharing app
    - **What are the main focus(es) of the project?**
      * **UI and front end**
      * **Client and server structure**
        + **Ability to send information back and forth from front to back**
      * **Minimal back end matching**
  + **Equipment requirements**
    - **How will it work?**
      * **Android app**
      * **Client and server system (TBD)**
    - **What will we use?**
      * **Android studio**
      * **Java and JS**

Schedule

* Bi weekly
  + Project milestones
  + Include meetings with Prof and partner
  + First few weeks are research
    - Project frame works
    - Programming environments
    - Various algorithms
  + Bulk of the schedule post research
    - Developing software
    - Designing algorithms
    - Evaluating implementations (testing)
  + Towards the end
    - Gather data/statistics
    - Performing testing
    - Adding features to code
  + Last two weeks
    - Writing project report