

Hitch Teamwork Plan

Stakeholders

List of stakeholders (users, operators, others) and their roles

- Team BEST - developers
 - Create the application to allow people to easily find others to share rides with, and make the world a better place
- MIT Students - users
 - Create and share rides
 - Test our application and provide usage reports as feedback
- Taxi and other ride companies (eg. Uber, Lyft)
 - Provide the rides for users to share (although we don't aim to support Uber/Lyft/taxi company partnerships or integration in the scope of this project)
- 6.170 Staff - reviewers
 - Provide guidance and direction towards the execution of our application

Tasks

- Front End
 - Front end framework (high effort) - Brandon, Eric, Selina, Teresa
 - Home page (medium effort) - Eric
 - User reviews page (medium effort) - Teresa
 - New ride page (medium effort) - Brandon
 - Past rides page (medium effort) - Teresa
 - Review page (medium effort) - Selina
- Back End Model + Routes
 - Database (medium effort) - Brandon
 - Ride model (low effort) - Eric
 - User model (low effort) - Selina
 - Review model (low effort) - Teresa

Timeline/Deadlines:

Monday 11/16: All models/database complete
Saturday 11/21: All front end pages + routes
Monday 11/23 (due date): Full MVP, everything integrated together
Tuesday 11/24 (due date): MVP reflection
Tuesday 12/1: Complete remaining functionality
Thursday 12/3 (demo): Have complete demo of almost-finished app planned and practiced
Saturday 12/5: Polished and complete app
Sunday 12/6 (due date): Final version of code
Monday 12/7 (demo): Demo of complete app

Risks

- Users don't show up for a ride they signed up for.
 - Other participants in the ride can give them low user ratings
- Users might not pay for their share of the ride

- Leave it up to users to fare split within Uber/Lyft or split the payment in cash or pay one another back.
- People may peruse the site and pretend to be part of a ride they hadn't signed up for, potentially taking someone's place.
 - Send participants of a ride a secret passphrase to exchange when they meet at the pickup location.
- There may be malicious users who lure people to locations under the pretense of sharing a ride and mug them or other bad things
 - Encourage users to meet in public, well lit places, and limit to only MIT users.
- Users may be able to sign up for multiple overlapping rides.
 - We cannot prevent this from happening because we can't accurately predict whether two rides will overlap. However, we can remind users to double check that they are not double booked for rides. Additionally, if a user doesn't show up for a ride, the other participants can leave them a bad review.
- Malicious users may leave untruthful reviews about other users that they may not have shared a ride with
 - We only allow users to leave a review if they have shared a ride with someone.

Minimum Viable Product

For our MVP, Hitch should support user creation and authentication with MIT certificates, as well as our first concept which allows users to create, join, and leave rides. We will include the second concept of ratings later. Thus, all associated user interface elements for rides as outlined in our wireframes should be included, while those concerning ratings would be postponed.

This should contain most of the desired value for our users as they will be able to organize and join carpools with other users. We'll also be able to receive feedback on our initial implementation, database models, and UI.

Our UI and style may not be perfect for the MVP, and can be refined for the final product. Some security mitigations could be postponed until after the basic functionality is finished for the MVP.