

CS 40800: Project Charter

Project Title: Boileride

Team 3: Oi Kam Chow (ochow), Kuan-Ting Wu, Ley Yen Choo, Ryan Teo Yii Wen, Wei Yuan Chung, Yuang Huang

Problem Statement:

Ride sharing is becoming ever so popular as it allows for mutual help in transportation and better use of resources. Connecting peers who needs a ride and who can offer a ride can be complicated when it involves various traveling needs. We will create a platform that allows listing, searching and reserving available rides.

Project Objectives:

- Allows users to create a rideshare.
 - Support ride creation
 - Support ride cancellation
 - Support ride update
- Allow users to join a rideshare.
 - Support ride searching
 - Support ride booking
 - Support ride cancellation
 - Support ride update
- Develop a model to generate list of suggested rideshares based on dates, times, user location, destination and preference.
 - Building a graph based on the available rideshares.
 - Support multiple rides in one trip.
 - Support range of dates and times in search.
 - Find possible rides within the requested dates, times, proximity of location and destination.
- Support list sorting and filtering.
 - Support travel time sorting.
 - Support date, time and location sorting.
 - Support user preference (transit time, number of rides, number of seats available, etc.) filtering.

Stakeholders:

- Users: Any person who wants a ride or who is willing to offer a ride

- Project Developers: Ley Yen Choo, Oi Kam Chow, Wei Yuan Chung, Yuang Huang, Ryan Teo Yii Wen, Kuan-Ting Wu
- Project Owners: Ley Yen Choo, Oi Kam Chow, Wei Yuan Chung, Yuang Huang, Ryan Teo Yii Wen, Kuan-Ting Wu
- Project Coordinator: Dohyeong Kim

Project Deliverables:

- A web based ridesharing system that allows users to create and join rideshares.
- Java backend that handles rideshare creation, searching, joining and ride time. It would also be able to handle multiple clients.
- HTML/Javascript frontend to provide creation, search and joining of a rideshare. It would also provide various useful information for the user.
- MySQL database to store all user and rideshare information.