Panther Carpooling & Parking

Milestone 3

Team Members

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- Hunter Smith — jsmith2022@my.fit.edu

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Faculty Advisor and Client

- Dr. Philip Chan — pkc@cs.fit.edu

Overview of Milestone 3

- ❏ Complete remaining profile tasks.
- ❏ Develop and test algorithm for carpool group recommendations
- ❏ Develop user interface for showing user carpool groups and allow users to create/form groups
- ❏ Develop and test real time tracking and route creation
- ❏ Expectations for Milestone 4

Scheduling Page

Matching Algorithm

Matches users together based on Schedule, Location, and Preferences

Schedule: Range between arrivals, Range between departures.

Location: Shortest Possible Path between all users. TSP algorithm.

Preferences: Compares preferences of all members. Counts number of conflicts.

All three are factored into an overall score. A lower score is better.

Matching Algorithm (Demo 1)

Test 1: Men arrive early, Women arrive late.

Group Recommendation 2

Email	Name
Bill@my.fit.edu	Bill
Dave@my.fit.edu	Dave
Fred@my.fit.edu	Fred
Hugh@my.fit.edu	Hugh

Group Recommendation 1

Email	Name
Gail@my.fit.edu	Gail
Ally@my.fit.edu	Ally
Cass@my.fit.edu	Cass
Ella@my.fit.edu	Ella

Matching Algorithm (Demo 2)

Test 1: Men live east, Women live west.

Group Recommendation 1

	Email	Name
	Hugh@my.fit.edu	Hugh
	Bill@my.fit.edu	Bill
	Dave@my.fit.edu	Dave
	Fred@my.fit.edu	Fred

Group Recommendation 2

	Email	Name
	Ally@my.fit.edu	Ally
	Gail@my.fit.edu	Gail
	Cass@my.fit.edu	Cass
	Ella@my.fit.edu	Ella

Matching Algorithm (Demo 3)

Test 1: Men allow eating/smoking, Women don't.

Group Recommendation 2

Email	Name
Hugh@my.fit.edu	Hugh
Bill@my.fit.edu	Bill
Dave@my.fit.edu	Dave
Fred@my.fit.edu	Fred

Group Recommendation 1

Email	Name
Ally@my.fit.edu	Ally
Cass@my.fit.edu	Cass
Ella@my.fit.edu	Ella
Gail@my.fit.edu	Gail

User-Detail Page: Self (Long) View

SELF-VIEW | USER-VIEW

UPDATE PROFILE

13 FRIENDS **24** COMPLETED RIDES

Name
j t
Pronouns
She/Her, He/Him, etc.
Bio

Reviews
J... L...: Very pleasant ride!!
R... P...: Sweet person. Nice conversation.
B... O...: Dirty Car
Current Rating
★★★☆☆

Rider/Driver Statistics

Description	Miles

This site is currently under construction by Austin Phillips, Hunter Smith, Jason Smith and Jacqueline Torres.
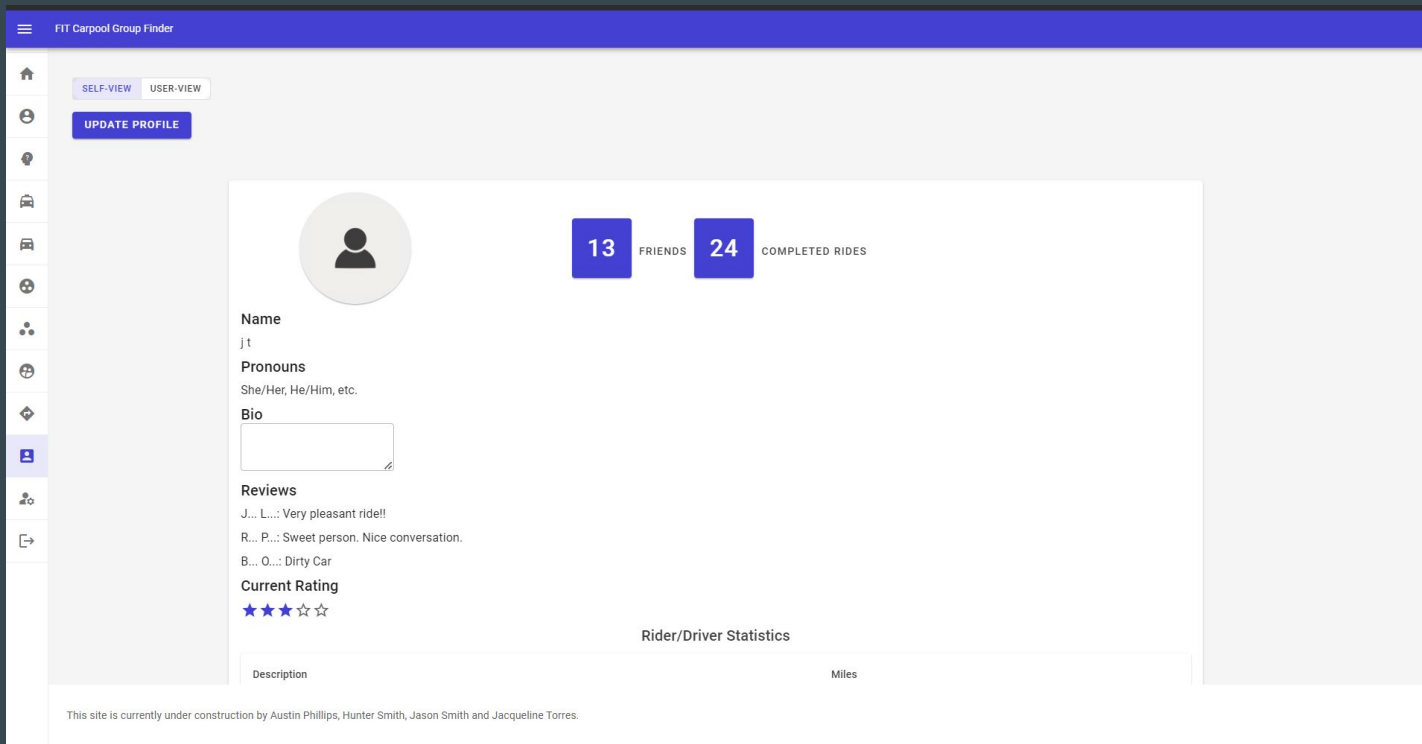
User-Detail Page: User (Short) View
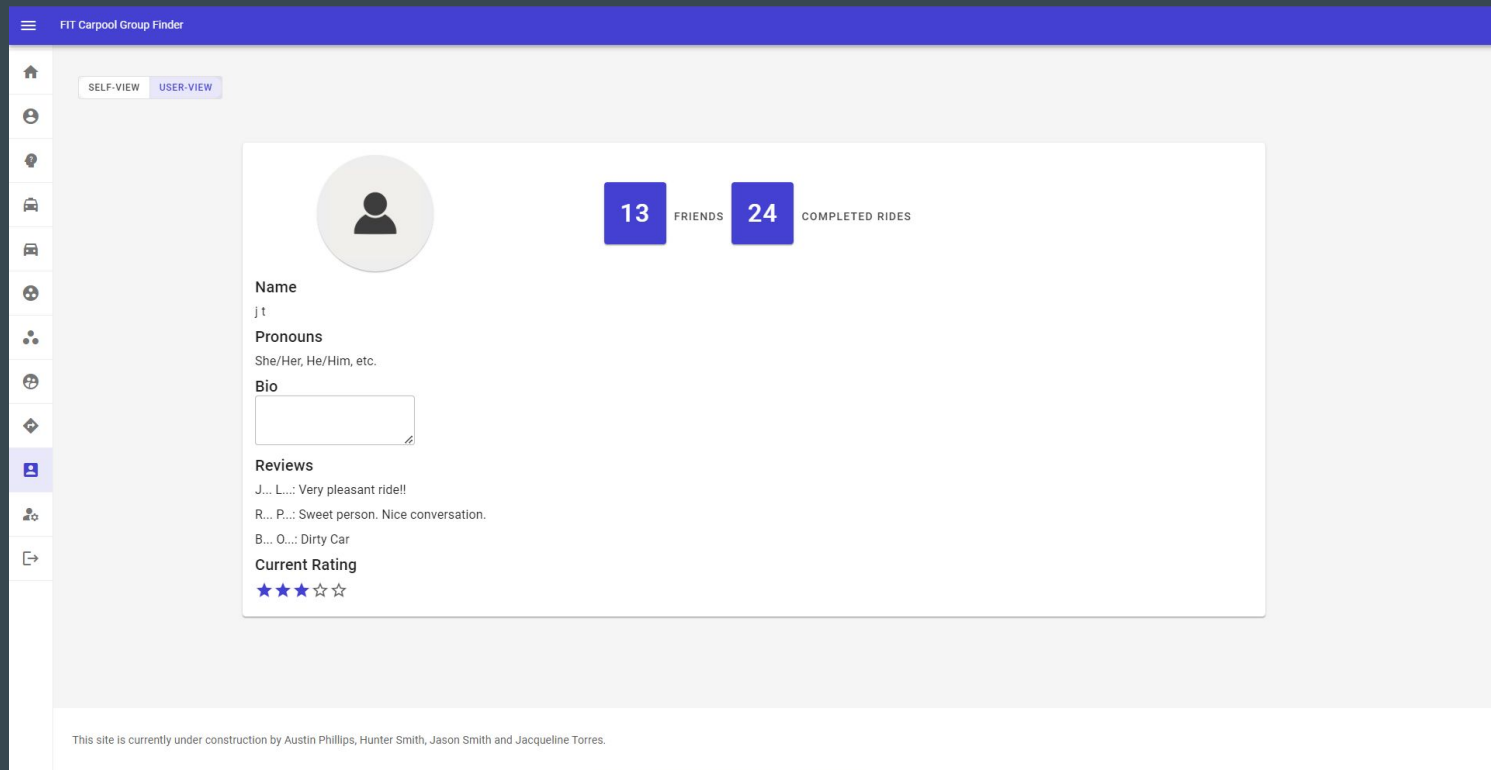
Group Recommendation Interface

- View name, profile picture, and role in carpooling group of recommended users
- "View User" links to a Short View of selected user's profile information

Demo Link

Driver Tracking Demo
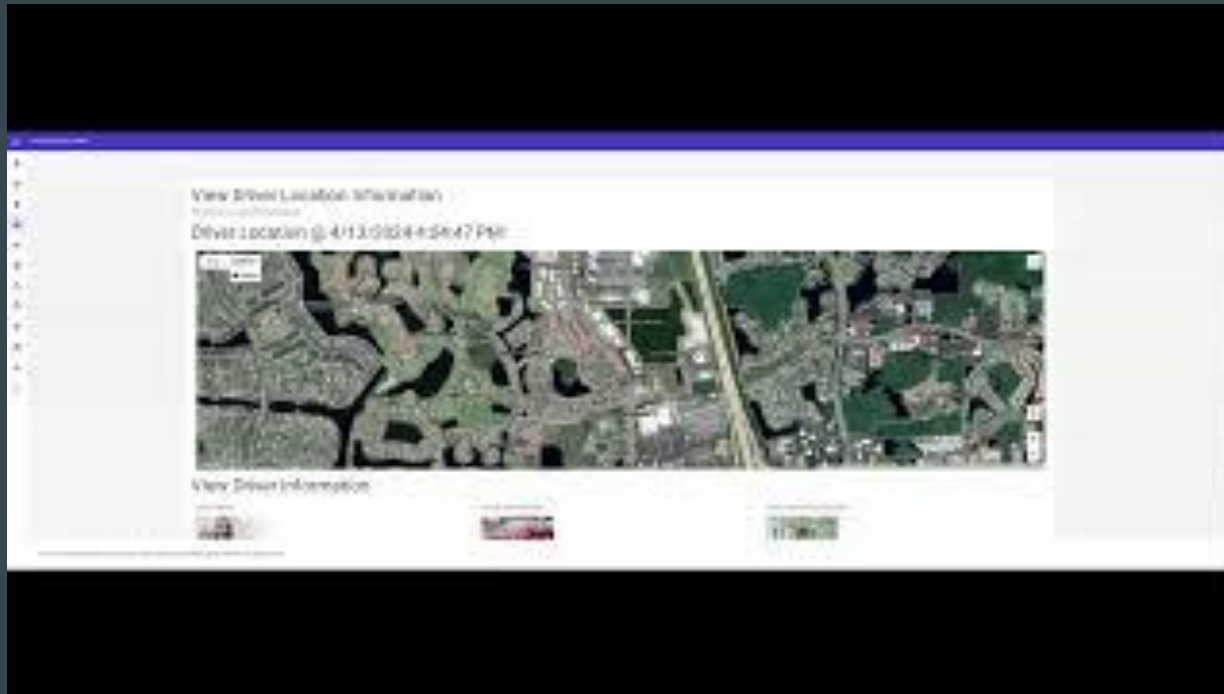
Progress Matrix of Milestone 3

Task	Completion	Austin	Jason	Jacqueline	Hunter	To do:
Complete remaining profile tasks.	90%	50%	50%	0%	0%	Add Markers on Google Maps Route Display
Develop and test algorithm for carpool group recommendations	75%	0%	0%	0%	100%	Balance the three metrics into one giant function. Test for >2 groups.
Develop user interface for showing user carpool groups and allow users to create/form groups	75%	0%	50%	50%	0%	Add functionality to accepting/denying group requests and integrate with the database
Develop and test real time tracking and route creation	75%	100%	0%	0%	0%	Provide Driver with the route after starting a trip

Milestone 4

- Group Recommendation with difference scenarios; Same time different location clusters
- Develop and Test long and short views for user profiles
  - Long View is your profile view
  - Short View is another user's profile
- Develop frontend and backend for Finding Friends, Add and Remove Friends
- Interface for entering ratings and reviews
- Integrate accept and deny group recommendations into the database
- Develop frontend and backend for Rider confirmation and Cancel options

Thoughts, Questions, Suggestions?