

## **Personas**

Sarah is a 21 year old, third year student at Michigan Tech studying civil engineering. She lives on campus and frequents the library cafe with her friends (a hazelnut mocha latte is her favorite drink...). She is only taking 12 credits this semester, works at the reception desk in McNair Hall, and is involved in Society of Women Engineers where she attends a meeting every Wednesday night. Her friends appreciate the fact that she drives a VW Jetta so she can take them to Walmart, and carpool home with a few of them. She spends a good chunk of her day on social media on her iPhone 7 Plus and checking her steps on her FitBit, but she's not really the most tech savvy individual. She won't spend much time trying to figure out new apps that don't make sense right away.

Jerome is a 21 year old, fourth year student at Michigan Tech studying civil engineering. He has a minor in computer science and an 18 credit course load this semester. He just moved off campus by Jim's Foodmart this year, and doesn't have his own car so he gets groceries at Jim's or carpools with his housemates to Walmart on the weekends. Originally from Ann Arbor, MI, he carpools home with some other students he met during his first year. Outside of his 18 credits he works out every morning (tracking his workouts on his Samsung Galaxy) and works for IT user services in the library, so you could say he's pretty busy. Being so busy, he tends to stay on campus all day and prefers to studying in DOW or Rekhi depending on what he's working on. On the weekends he enjoys spending time hiking or skiing and attending the occasional party.

## **Nominal Use**

Sarah and Jerome are both in Dr. Zhang's transportation class this semester and have received their latest assignment. They have to track their daily transportation information for the next 2 weeks including when they travel around Houghton and even between buildings on campus. They are going to do this using the iPatts app developed by some students here at Michigan Tech. Dr. Zhang gave them a url for the app where they will sign in with their Michigan Tech username.

The first time Sarah logs in on her phone she is asked for some basic info like her name, age, and gender, and then is presented with a screen that allows her to input a new trip. She can select if she is at the departure destination or arrival destination. Once she picks, her current GPS location is added to that destination and her current time is added. Then it prompts her to enter in the opposite destination time and location. She can type in an address or pick a location on a map on the screen. After she does that she picks a trip purpose and destination from drop down menus and saves her trip. She returns to the main screen that now shows her first trip and allows her to add new ones. From now on, anytime she makes a trip somewhere she opens the app and adds her new trip. If she forgets to log a trip during the day she can always go back in and log it later on. At the end of the semester she logs into the app on her computer and downloads a CSV file with all of her trip information that she can use to analyze for her class. Jerome has a very similar experience as Sarah since they are both in the same class and have to complete the same tasks for the course.

When Dr. Zhang logs in for the first time on his desktop computer he is taken to a screen that shows all of the trips that have been logged by students in his class. He can scroll through the list and look at all of the trips or choose to filter by student at the top of the screen. When he selects a student he sees only trips from that student. At any time he can filter down the list of trips by student or class and download a CSV with all of their travel details. The downloaded CSV contains the email of each student as well as a unique ID. He uses the email to compare if the student completed the assignment, and can remove the emails and still keep track of the unique sets of trips from each student if he wanted to share the data with others.