

## Progress Report

For assignment 2, we decided to build the system using **D3**. We also used **Python** to preprocess and condense the GPS data. Currently, we have succeeded in drawing the map of Abila. The system includes a timer functionality where it will loop through the days included in the data. Time is controlled with the pause and play buttons at the top of the system. As time increases, the user will be able to watch the routine of the employees unfold. As of right now, the employees and their location history are represented by circles of various radii. The larger the radii, the more recently the employee was at the location. The various locations of Abila are represented by the grey circles. Information about the streets and locations can be found by hovering over them.

## Visual Design

The current vision of this system is represented in Figure 1. A sliding sidebar will give the users a simple way to filter the data to only employees of interest. As employees go about their day, the view on the bottom will update with live credit card/loyalty transactions. . It would be nice to see the popular times of the locations and even the employees who have visited there the most at that particular point in time. We would also like to have a better way of representing the different locations on the map and make it more visually appealing.

## For the Next Milestone

By the next milestone, we would like to have the sliding side bar and the transaction view incorporated into the system. Additionally, we want to visualize the location history of employees as a path rather than a series of circles. We also need to incorporate a color scheme to color all of the employees differently.

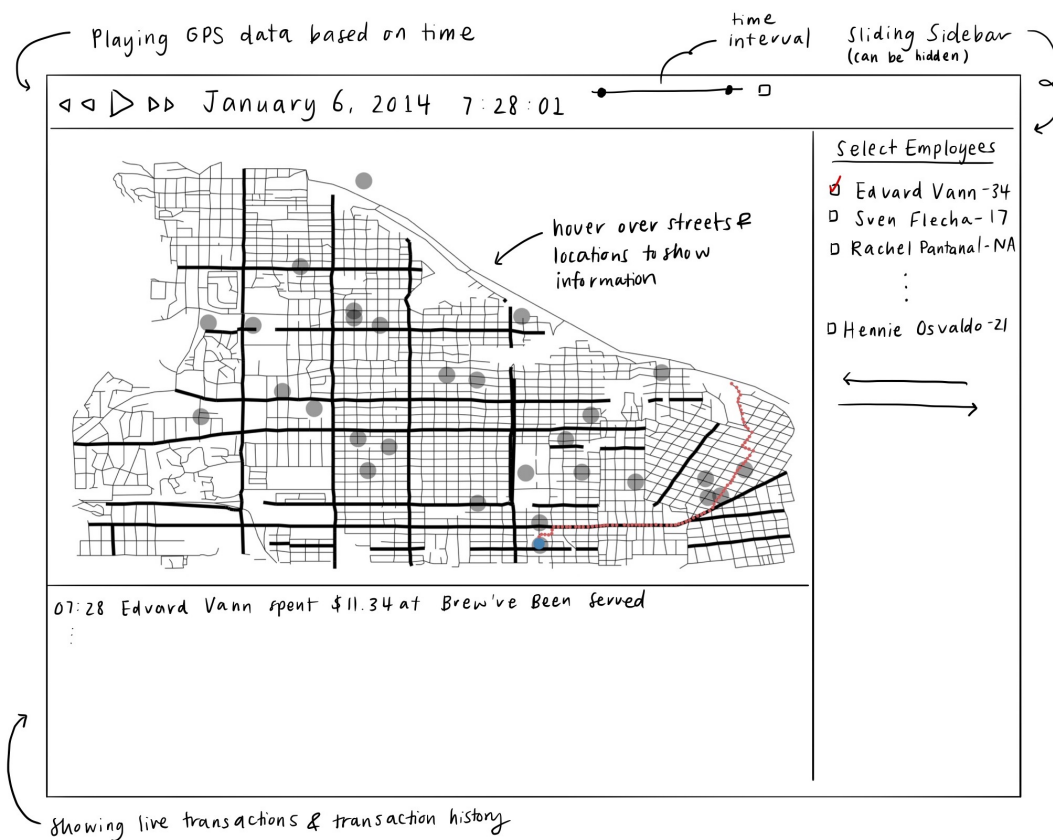


Figure 1: Visual system design