

Design Review Notes - 3/1/2018

Team members present:

Connor Przybyla
Noah de Longpre'
Richy Carpenter
Qu Shuhao
Caden Summer
Eamonn Daley

Our biggest challenge will be implementing the intersection view. We need to shift our focus on implementing this. We may have numerous iterations of this view. Also, we need to get the database tables set up prior to implementation of the intersection view. Our database tables were discussed during the design review, and we need to adjust them to the changes suggested. The database we will use during implementation will be in-memory. Once we reach the production stage, the database will be made active on Michigan Tech's server.

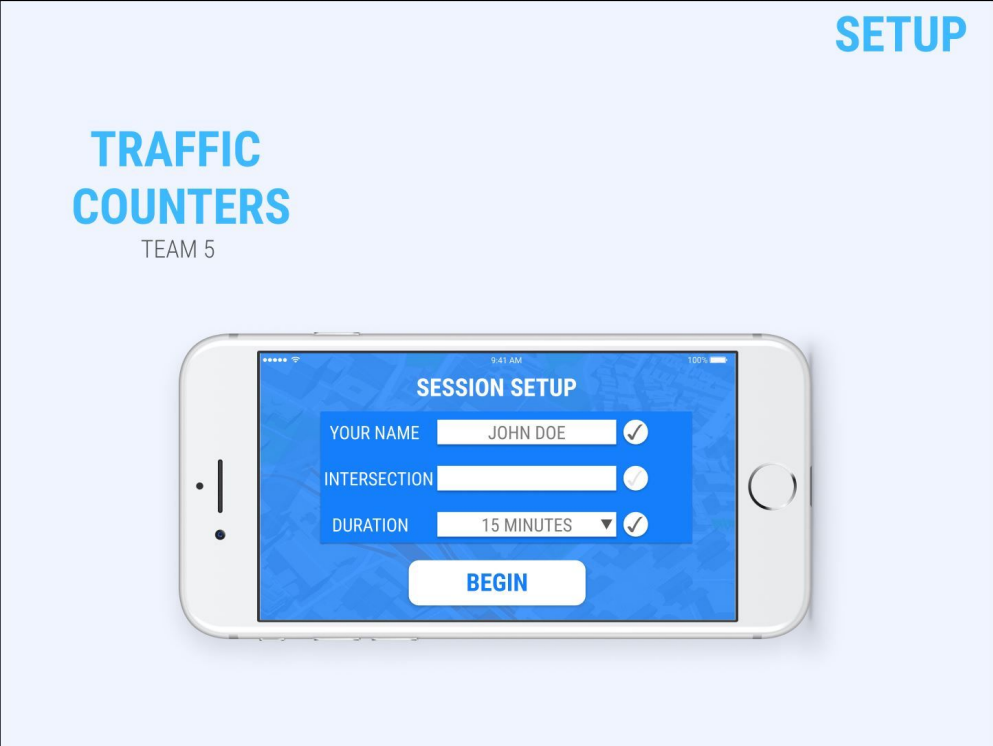
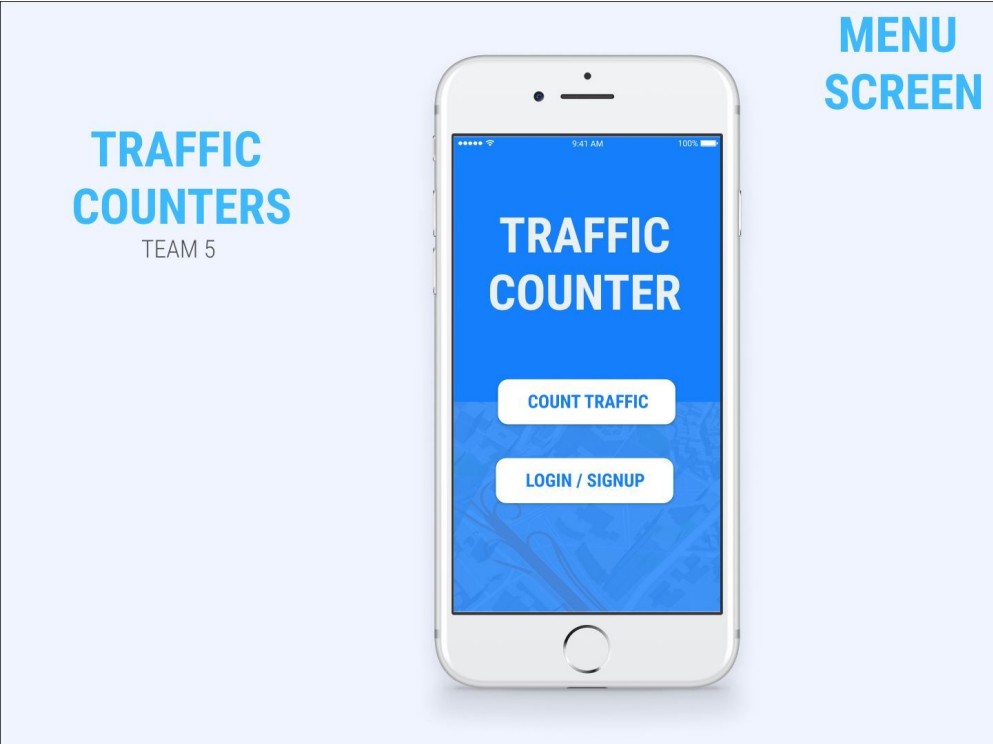
The main design changes discussed during the design review were regarding the design of the intersection view and how we plan to push information to the database. There is no clear answer for how our intersection view should be exactly laid out. We plan to find the ideal design through iterations of the user interface. We also discussed the possibility of storing data in the phone files, and then pushing this data to the database after each interval. In this way, we can minimize the amount of pushes to the database while preventing the loss of data by storing all information on the phone.

Overall the design review went as planned. The highlights of the design review were:

- Adjusting our database tables
- Focusing primarily on the intersection view and implement this view first

Another important task that we need to focus on is the output of the csv file that the professor wants. This should not be that much of a challenge because we will have all the information and data required, we just need to make sure to match the exact format. We need to ensure that after each successful session, the data is actually pushed to the database successfully. The professor will then be able to use his view to select a date range and get all of the rows in the database that are within the range by a csv file download of the merged rows.

Screenshot of our modified design prototype (iteration 2):



15:00

?

COUNT: 0

N OTHER ST

E MAIN ST

W MAIN ST

S OTHER ST

START SESSION

This panel shows a top-down view of a four-way intersection. The vertical road is labeled 'N OTHER ST' at the top and 'S OTHER ST' at the bottom. The horizontal road is labeled 'E MAIN ST' on the left and 'W MAIN ST' on the right. Blue circular icons with white arrows indicate traffic flow: straight-ahead, left-turn, and right-turn movements for all four directions. In the top-left corner, there is a timer icon and the text '15:00'. In the top-right corner, there is a question mark icon and the text 'COUNT: 0'. In the bottom-left corner, there are icons for a car, a truck, and a right-turn arrow. In the bottom-right corner, there is a blue button labeled 'START SESSION'.

14:19

COUNT: 12

N OTHER ST

E MAIN ST

W MAIN ST

S OTHER ST

END SESSION

This panel shows the same four-way intersection as the top panel. The road labels and traffic flow icons are identical. In the top-left corner, the timer shows '14:19'. In the top-right corner, the text 'COUNT: 12' is displayed. In the bottom-right corner, there is a blue button labeled 'END SESSION'.

**END
SESSION**

TRAFFIC COUNTERS

TEAM 5

