CSCI 3308-17
Group: 3
Team Name: Orcas
Team Members:
        Kyle Ma - Oleracea
        Max Saldi- Maxsaldi0923
        Owen Helfer - OwenHelfer
        Rafael Neves - rafaGandelman
        Jonathan Goins - goinsj99

Application Name:
TransitBlu

Application Description:
A mobile application that will be created to track buses in the upper Colorado area. Users will be able to view bus lines in their area and also select to get routes from their source to their destination. There will be estimates on on time arrivals for each line. This way people will be able to plan their trip themselves based on time arrivals at each spot. People will be able to favorite lines they regularly ride in order to catch them and see often changing times. They will also be able to favorite trips based on days (for school and work schedules) to be able to have a trip pulled up after inputting their routes once.
Since many people in upper Colorado (especially students) rely heavily on public transportation, users will be better able to plan their trips with the TransitBlu app. The function of saving favorite routes, especially since people run on weekly schedules, will be hugely important. Many people are also willing to change their own schedules to fit the buses which we will account for (in displaying all bus times).

Vision Statement:
For residents in the greater Denver area
Who need know about their favorite busses on the go
The TransitBlu is a Transportation logistics application
that allows users to track bus routes in their area.
Unlike Transit, our product is highly customizable, allowing for users to add their schedules and walking speeds

Version control:
https://github.com/CU-CSCI-3308-Fall-2021/CSCI-3308-Fall21-017-03

Development method:
Following Agile/Scrum methodology with 1 week sprints. We will be using Jira as our organizational tool. The Jira Board is divided into 4 columns (To Do, In Progress, Testing and Done). The link to the Jira board is:
https://csci-3308-fall21-017-03.atlassian.net/jira/software/projects/Y17/boards/1
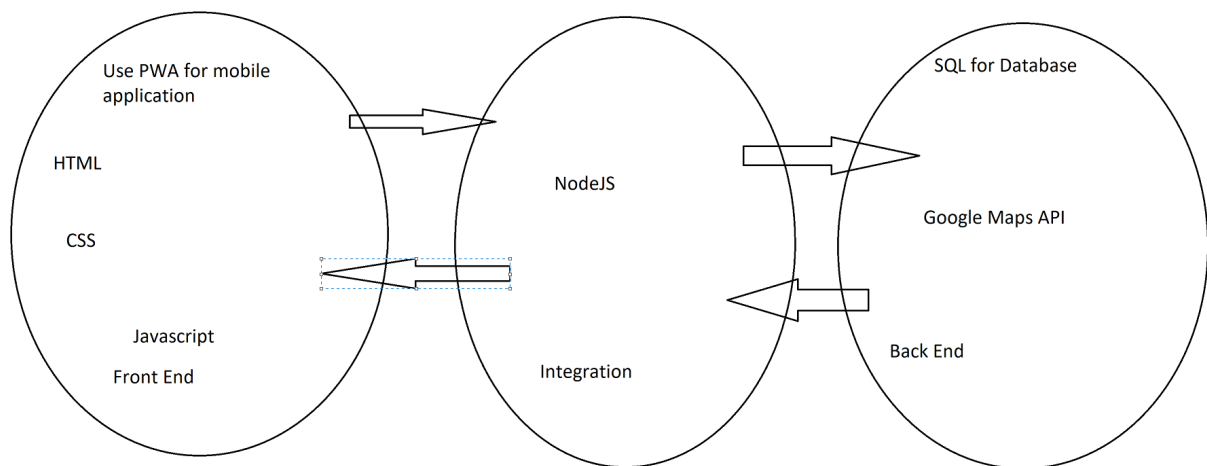
Communication plan:
To communicate, our team will primarily use discord and text. For urgent issues, we will use text to reach everyone no matter where they are and possibly move to Discord later depending on how many people are needed to finish the task. For our weekly meetings we will use Discord as it is much more convenient to communicate with each other using voice. Our weekly meetings with Cory will be held on zoom, through his own personal zoom link.
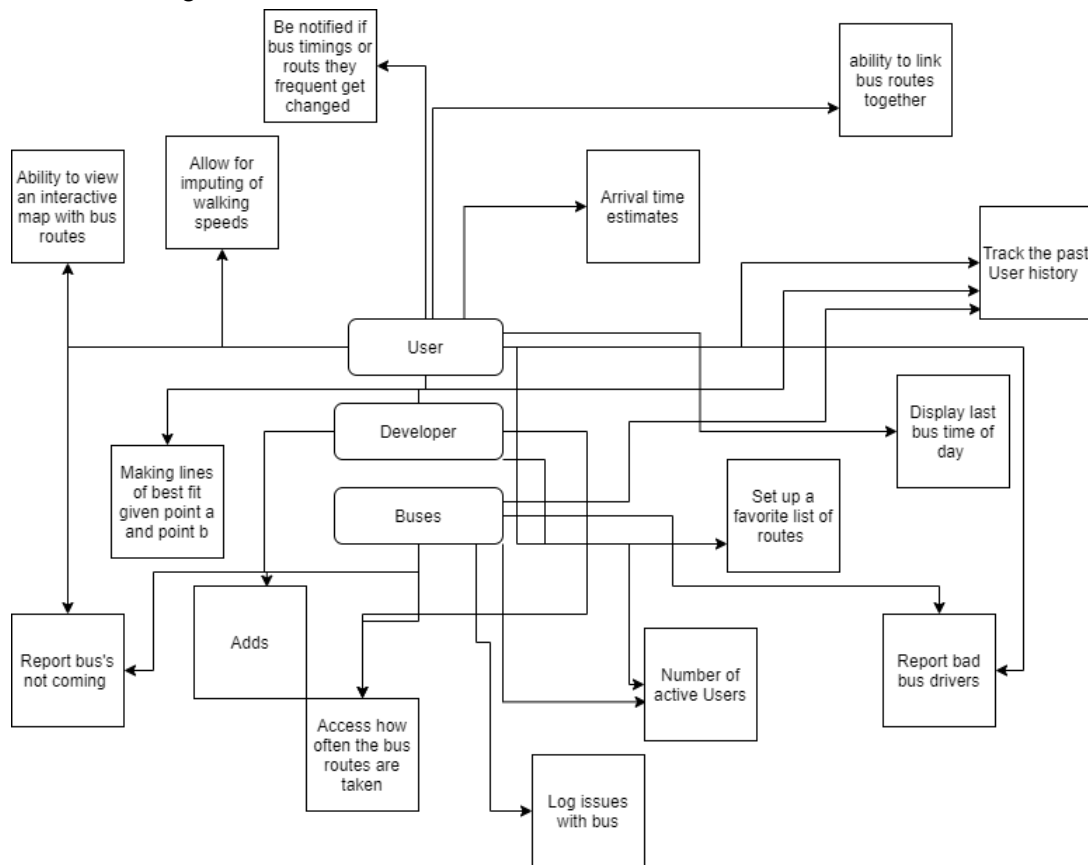
Meeting plan:
We will meet through discord on Fridays for an hour after recitation from 3:30 - 4:30 & Sunday nights from 8:30 - 9:30 through a discord server: https://discord.gg/XrraV37hpt. We meet with Cory from 5:45-6:00 on Mondays through zoom. https://cuboulder.zoom.us/j/98799018810

Proposed Architecture plan:
Our plan is to use javascript for the frontend, and Node.js for the backend. The mobile version will be available using PWA and the database with user information will be organized by SQL. For getting the information on the busses and their locations Google GTFS-realtime API will be used and that will communicate with the backend.

Use case Diagram:

https://drive.google.com/file/d/1Z0OCIF9iZgzAgQq3C-76Mrx21QBB-GaZ/view?usp=sharingVB