

CPSC 304 Project - Transit System

Milestone #: 3

Date: October 25th, 2024

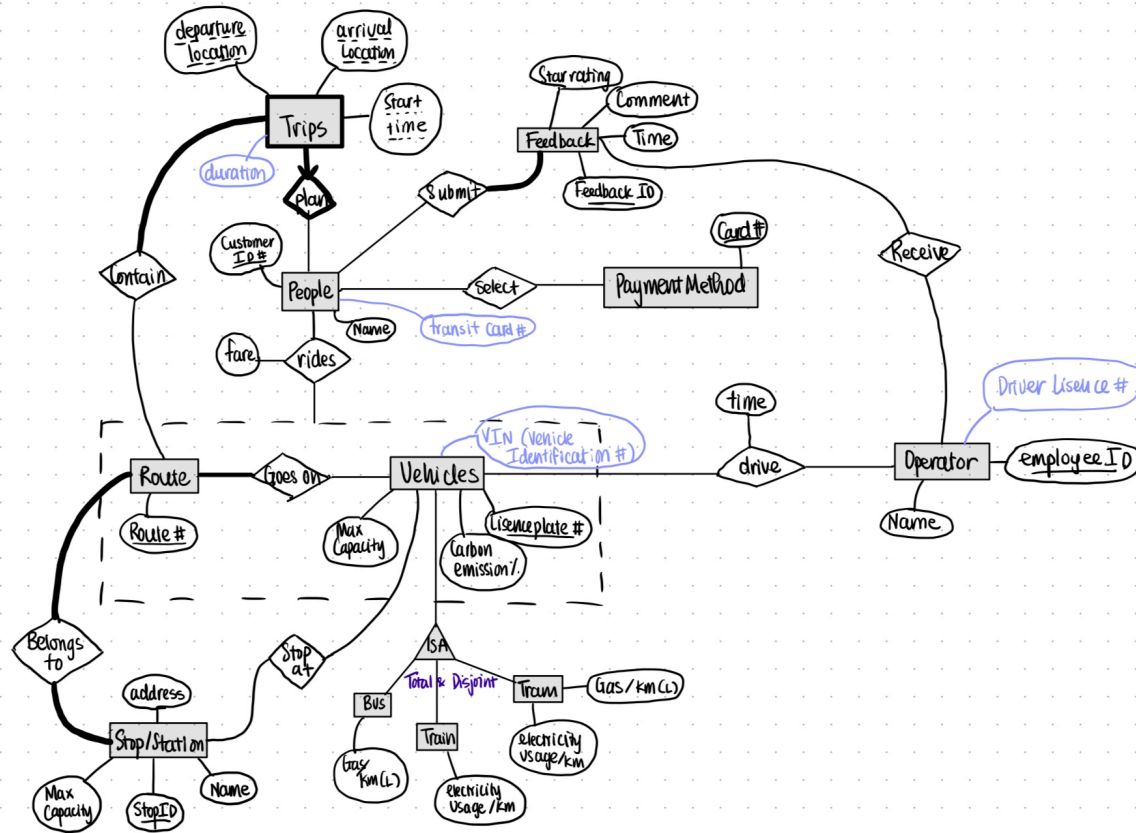
Group Number: 49

Name	Student Number	CS Alias (Userid)	Preferred E-mail Address
Dayshaun Lee	76084086	o4h1m	lee.dayshaun@gmail.com
Minh Vu	33077769	p5n0o	minhvuams@gmail.com
Khue Do	70790423	k3h7x	khuedothi@gmail.com

By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.) In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

I. Project Summary

This project aims to optimize the Vancouver public transportation system by providing real-time scheduling data, operational vehicles and routes information, user feedback and environmental impact tracking through an Oracle database. It will manage bus and train schedules, vehicle maintenance, and ridership data to improve efficiency and wait times for customers, at the same time meet the city's sustainability goals.



II. Deadlines and Assigning tasks

NOTE: Milestone 4 deadline is Nov 29 at 10PM. Everything should be completed by then
Milestone 5 is DEMO, code cannot be changed from Milestone 4 deadline
Milestone 6: Teammate evaluations

Task	Tentative deadline	Assigned to
SQL Queries (10) _____	_____	_____
Insert Update Delete Division	Nov 8	Minh
Selection Projection Join Drop, recreate, and reload tables	Nov 8	Khue
Aggregation with GROUP BY Aggregation with HAVING Nested Aggregation with GROUP BY	Nov 8	Dayshaun
Front end GUI _____	_____	_____
- Feature to specify what values to insert	Nov 15	Khue

University of British Columbia, Vancouver
Department of Computer Science

<ul style="list-style-type: none"> - Feature to display updated attributes - Feature to specify what values to delete - Feature to search for tuples based on AND/OR clauses and attribute combinations. Can be dropdown or AND/OR Can be string specifying conditions 		
<ul style="list-style-type: none"> - Feature to choose any number of attributes to view from this relation - Feature to provide value in WHERE clause for joining - Interface such as button or dropdown for user to execute division query <p>Optional: GUI button to call the setup script</p>	Nov 15	Minh
<ul style="list-style-type: none"> - Interface such as button or dropdown for user to implement aggregation with GROUP by - Interface such as button or dropdown for user to execute aggregating with HAVING - Interface such as button or dropdown for user to execute nested aggregation with GROUP BY 	Nov 15	Dayshaun
Backend <hr/>	<hr/>	<hr/>
<p>SQL Initialization script: standardized environment for testing, restore unwanted changes to its original state, containing the below</p> <ul style="list-style-type: none"> - CREATE: go through feedbacks for Milestone 2 and put this in the sql file - Write INSERT statements for the corrected Create tables 	<p>Nov 1 (helps a bit with the Backend #2 task: connection from backend to front end)</p>	Khue

University of British Columbia, Vancouver
Department of Computer Science

<p>(test) Deployment on ugrad server: Can basically officially run an empty project like how you can run the sample project, but ours will be an empty canvas with all the required connections</p> <p>Make sure credentials are working</p> <ul style="list-style-type: none">- connection to linux server- appController.js: This layer specifies the routes (URLs) to which our backend can respond. Depending on the frontend interaction, different routes will invoke different functions.- Make sure this can connect to test front-end files <p>Files:</p> <p>appController.js index.html script.js server.js</p>	Nov 1	Dayshaun
<p>(test) Deployment on ugrad server</p> <ul style="list-style-type: none">- Connection to database server, db credentials .env file- appService.js: This is where the logic for each functionality resides. It's also the layer where we access the database.- Connects to appController.js <p>Files</p> <p>appController.js appService.js</p> <p>set up our Oracle database on the cs server, make sure that's working</p>	Nov 1	Minh
<p>User notification</p> <ul style="list-style-type: none">- errors like invalid inputs or inserting a duplicate value- Reflected in UI- Satisfies our database	Nov 22	Each person make user notifis that relates to the SQL Queries they worked on (specified in "SQL queries" portion of

University of British Columbia, Vancouver
Department of Computer Science

		this table 30% each
Finalization and testing Deadlines		
Meet and make sure the components work together Testing Debugging	Nov 22	30% effort each to test out things other members worked on also
Create PDF file for Milestone 4 submission <ul style="list-style-type: none">- Cover page- Short project description- Description of differences in final schema from turned in schemas- List of all SQL queries- Queries 2.1.7-2.1.10 inclusive, include copy of SQL query and description	Nov 29 (Milestone 4 deadline) But we'll meet before this to finalize the PDF	All collaborate on Google Docs

Other notes for ourselves:

- Start with starter code in Tutorial 7
- In the assignment table above each section (SQL, Front-end, Back-end) have been divided into 3 so the allocation of work will be roughly equal. Whether we want to switch people around later on might depend on what will be more convenient. For example if someone worked on a portion of the SQL they might find it easier to work on the same parts for the relevant UI components. Group members will communicate closely regarding this.
- Have meetings before each sub-deadline to make sure components work together