

# CPSC 304 Project Cover Page

Milestone #: 3

Date: October 25th, 2024

Group Number: 18

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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

### Project Overview:

Our application focuses on community engagement, local exploration, and tourism. This project will help users discover Vancouver's hidden gems of lesser-known foods, events, and recreation activities encouraging users to explore the whole extent of Vancouver. By providing references like costs, reviews, and transit options, this application will be a city exploration tool that highlights community experiences.

### Timeline:

#### I. Task Breakdown

**Overview:** Our timeline has four major parts:

- (1) Writing SQL queries
- (2) Creating an API to integrate backend (queries) with front end (REACT app).
- (3) Create GUI and integrate API into it
- (4) Debugging/Testing/Debugger space

The task breakdown is as follows:

Queries done by **November 5th** (Broken down below):

**Parsa:** (1) 2.1.1 INSERT, (2) 2.1.6 Join, (3) 2.1.7 Aggregation with GROUP BY

**Ethan:** (1) 2.1.8 Aggregation with HAVING, (2) 2.1.5 Projection, (3) 2.1.4 Selection

**Matthew:** (1) 2.1.3 DELETE, (2) 2.1.2 UPDATE, (3) 2.1.9 Nested aggregation with GROUP BY

API done by **November 15th**

This task will require collaboration as needed. For individual tasks:

**Parsa** implement HTTPS protocols for the following: (1) 2.1.1 INSERT, (2) 2.1.6 Join, (3) 2.1.7 Aggregation with GROUP BY

**Ethan** implement HTTPS protocols for the following: (1) 2.1.8 Aggregation with HAVING, (2) 2.1.5 Projection, (3) 2.1.4 Selection

**Matthew** implement HTTPS protocols for the following: (1) 2.1.3 DELETE, (2) 2.1.2 UPDATE, (3) 2.1.9 Nested aggregation with GROUP BY

**Group:** Once individual parts are finished, meet and test integration of entire API together.

#### GUI and API integration November 22nd

**Group task:** Meet and design front end concept by November 17th

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**Parsa** implement front-end/GUI features that demonstrate the following capabilities: (1) 2.1.1 INSERT (2) 2.1.6 Join (3) 2.1.7 Aggregation with GROUP BY

**Ethan** implement front-end/GUI features that demonstrate the following capabilities: (1) 2.1.8 Aggregation with HAVING (2) 2.1.5 Projection (3) 2.1.4 Selection

**Matthew** implement front-end/GUI features that demonstrate the following capabilities: (1) 2.1.3 DELETE (2) 2.1.2 UPDATE (3) 2.1.9 Nested aggregation with GROUP BY

**Group work:** Throughout we will be holding re-occurring standups to evaluate if any of our above features can be worked on in conjunction between multiple team members. For example, if group decides to create a drop down selection to chose whether you want to add (INSERT) or delete (DELETE) something, Matthew and Parsa would design this feature together.

### Deadlines Summary:

**November 5th:** Group members have finished their individual queries and tests them

**November 15th:** Group members have created the necessary API parts for their above written queries

**November 22nd:** GUI and API integration are finished

The remaining time until the deadline is left as a buffer period, and a period to continue testing.

### Potential Challenges:

1. Knowing the tech stack: Potential bottleneck for task completion if a group member does not have an appropriate understanding of the tech stack to be used: JS, OracleDB and REACT. To counteract this, the group has committed to finish tutorials 5, 6 and 7 as soon as possible, to leave buffer time to get extra practice and help as needed.
2. Midterms and other deadlines: The team has left adequate time for each task and has committed to working on the project a minimum of 30 minutes a day starting from October 28th. This will ensure that each team member is making progress each day. Further we have allocated a 1 week buffer before the deadline to account for extraneous circumstances that may impede progress
3. Group member accountability. To address that all members are doing an equal amount of work, we will be meeting three times a week for a "standup" following traditional scrum methodologies where we will highlight what we have worked on since the last meeting, what we are currently working on, and any roadblocks that we are facing.

### Repository Link:

The link to the repository is provided below:

[https://github.students.cs.ubc.ca/CPSC304-2024W-T1/project\\_d0l9u\\_p7m3b\\_y7n9r](https://github.students.cs.ubc.ca/CPSC304-2024W-T1/project_d0l9u_p7m3b_y7n9r)