## University of British Columbia, Vancouver

**Department of Computer Science** 

# CPSC 304 Project Cover Page

Milestone #: 3

Date:October 31, 2022

**Group Number: 7** 

Name	Student Number	CS Alias (Userid)	Preferred E-mail Address		
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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.

#### **TODO List:**

- Queries
  - Insert
  - Update
  - Delete
  - Selection (need to have user specified conditions)
  - Projection (3-5 attributes)
  - Join (at least 2 tables meaningfully & provide interface for user to execute at least 1 condition)
  - Aggregation
    - Group by (i.e. average/min/max/count & provide interface for user to execute)
    - Group by with having (same thing but needs having)
    - Nested group by (need more info)
  - Division
- Frontend (React, TypeScript)
  - Pages
    - User login & profile (Join)
      - User login
        - account
        - vehicleOwner
      - Vehicle creation & attachment (Insertion)
        - Vehicle OR electricVehicle
        - permit
        - Manufacturer
      - Vehicle owner details
        - vehicleOwner
      - Vehicle details (Update, Deletion)
        - ticket
        - permit
        - vehicle/electricVehicle
        - manufacturer
        - parkingSessions
    - Parking history (Stats)(Aggregation GB, Projection)
      - parkingSessions
      - tickets
      - vehicleOwner
      - Vehicle OR electricVehicle
    - Parking lot selection (creating a parking session) (Selection)
      - Selecting from existing spots & choose options (filtering for electric, accessibility, duration, height)

- parkingSessions
- Current parking session (maybe something like paybyphone)
- Stat page for parking lots (Aggregation HV, Division, Nested aggregation)
  - parkingLots
  - parkingActivities
  - Chargers
  - parkingSpots
  - electricSpots
  - accessibilitySpots
- Backend (Nodejs, Express, OracleDB)
  - RESTAPI
  - Initial Database creation & records
    - Set up DB connection

#### LEGEND:

Blue: AsadRed: Richard

- Green: Jim

#### Timeline:

### 3rd Nov

- Discuss project with TA (Project Check in)
- Ask for clarifications regarding the implementation of project (types of queries)
- Ask about the final project deadline
- UI design
- Request feedback
- Questionnaire
  - Do we need to write raw queries?

#### 10th Nov

- Frontend: User login & profile (Asad)
- Backend: Test connection, DDL for all table & data (Richard, Jim)

#### 17th Nov

- Frontend: Stat page for parking lots, Parking lot selection (Asad)
- Backend: Rest api for users, parking activities, parking lot selection, stats for parking lots (Richard, Jim)

#### 23rd Nov

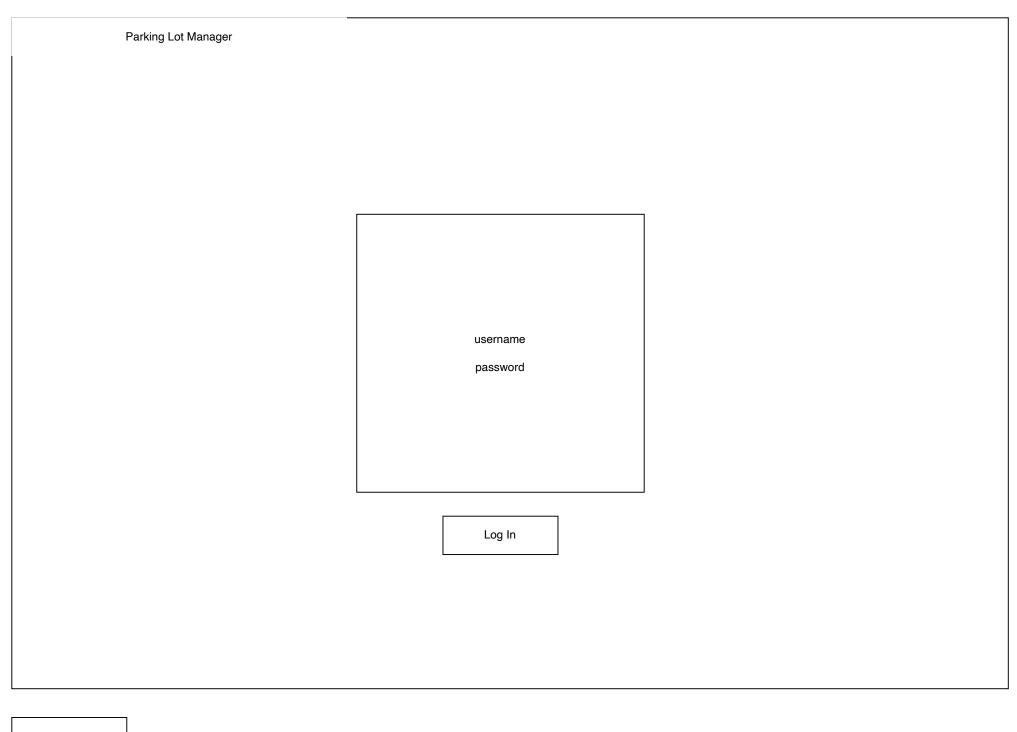
- Frontend: User previous parking activites (Asad)
- Make sure frontend & back end is connected (Asad, Richard, Jim)

#### 25th Nov

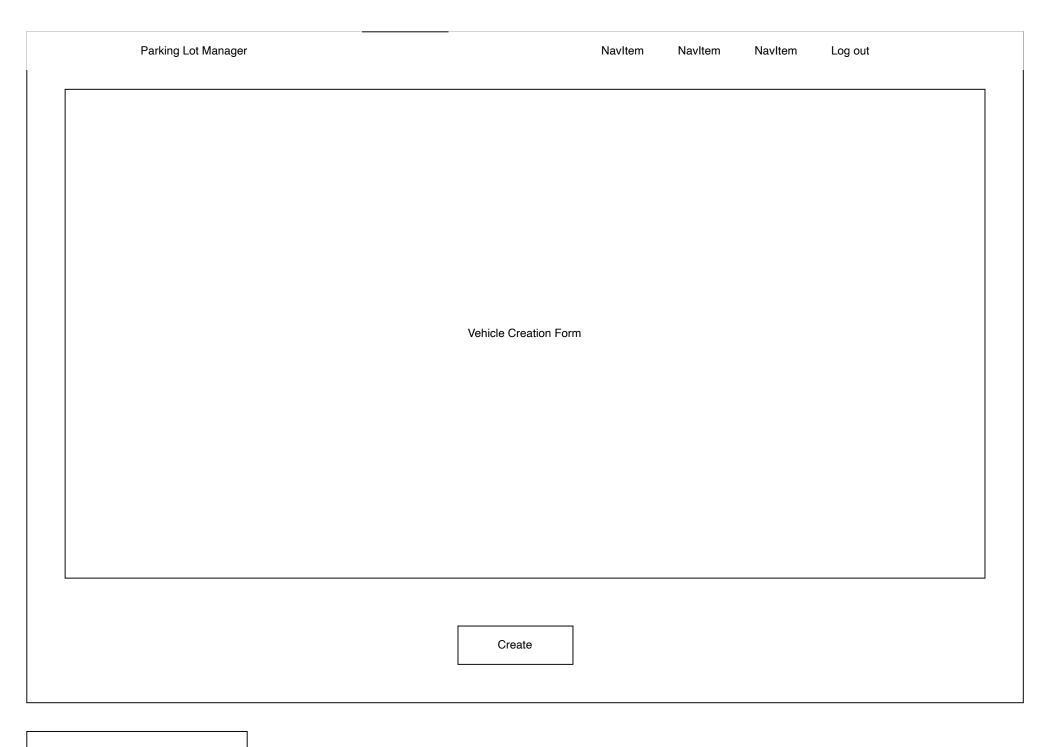
- Implementation deadline

# 28th Nov (Week)

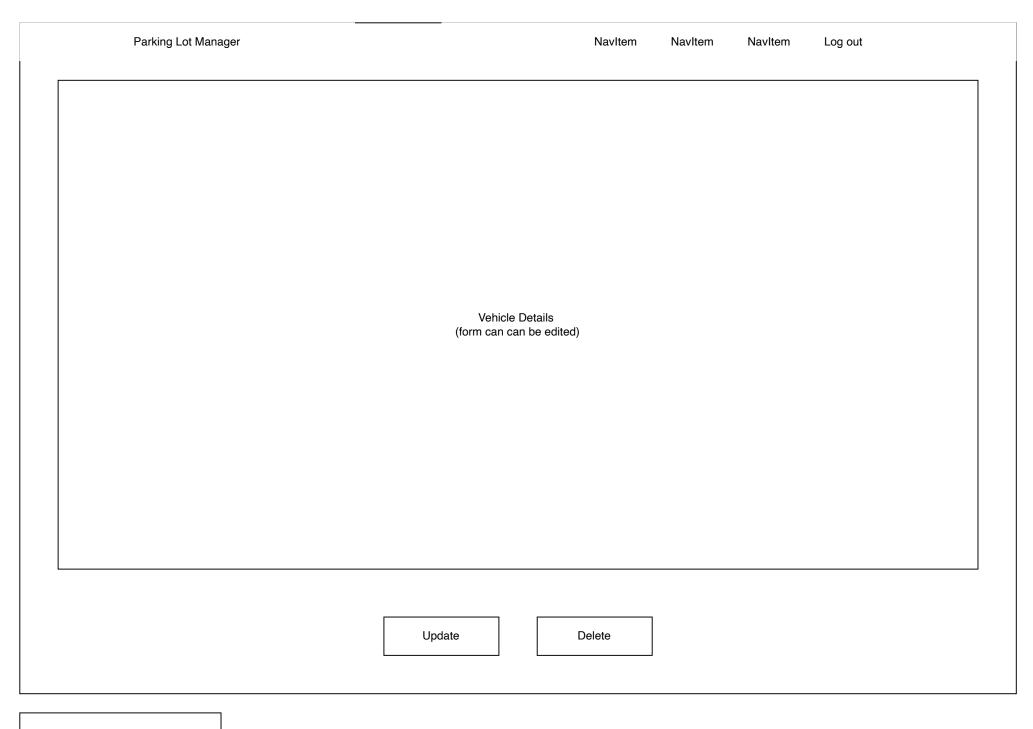
- Group demo for the project



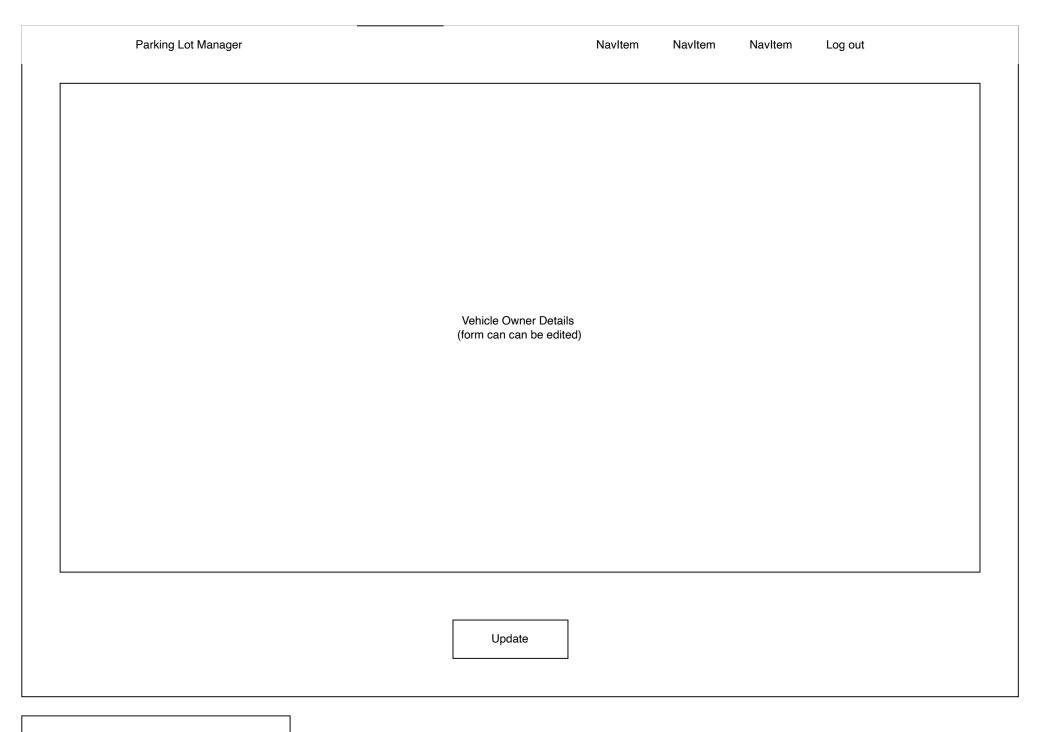
Sign in



**Vehicle Creation** 



**Vehicle Details** 



**Vehicle Owner Details** 



Parking Lot Manager	Navitem Navitem Log out	
Electric checkbox	Location dropdown Other filters like height	
	Select you Vehicle from dopdown	
	List of spots available	
	Select	

Parking lot selection

Parking Lot Manager		Navltem	Navltem	Navltem	Log out	
	Select Par	rking Lot				
	Some sort	of filters				
Bunch of stats and graphs showing info for filtered fields for the parking lot						

Stats for paking