University of British Columbia, Vancouver
Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: **1**

Date: **Oct 6th, 2023**

Group Number: **37**

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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

Overview:

In the heart of Canada's west coast, the Vancouver Metropolitan area attracts many with the promise of warm weather, a growing tech sector and fun activities to engage residents year round. As the city continues to grow, the demand for rental housing skyrockets as people seek out accommodation, prompting a parallel surge in the need for property management teams.

Domain of the Application:

The domain of our application is providing Property Managers (PMs) with a dashboard to oversee their day-to-day operations and manage their stakeholders effectively. These stakeholders primarily include landlords and their properties, tenants and their contractual agreements, realtors, and general maintenance staff. Our database will serve to model each stakeholder and their relevant documentation.

For landlords, tenants, and realtors, this entails capturing unique identifiers, names, and email addresses as a means of contact. Additionally, property data relating to the home's address, price and size will be managed, making sure we utilize an ISA to further categorize properties into two types: apartments, with information about floor levels, and townhomes, with data regarding the number of attached homes.

Our database will also accommodate contracts and payments, facilitating the connection between tenants and properties by providing insights into identifiers, signing dates, and monthly payment details. Lastly, we will house information about maintenance staff, including their ID, name, contact number, and specialty.

Database Specifications:

The core functionalities of our database surround the ability to add, remove, modify, and view stakeholder data, catering to the specific needs of property management teams. Some user stories include:

- As a property manager I want to…
    - Add new properties to the database with its corresponding details
    - Record and track rent payments from tenants.
    - Register new tenants by entering their personal information
    - Modify changes to contract agreements
    - Manage information about maintenance staff effectively

Application Platform:

While developing our project, we intend to utilize Oracle as our preferred database solution, leveraging the department's server. Our technology stack will include HTML, CSS, and JavaScript for building the user interface and enabling functionality.