

CPSC 304 Project Cover Page

Milestone #: 1

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Group Number: 19

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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 Proposal - Hotel / Private Listing Booking Application

The domain of the application will be about renting units (ex. Airbnb/booking.com). We will focus on listings and model the data relevant to those listings. The system will target two main audiences, those who create the listings, and customers who can make reservations for a unit. The listers can either be a hotel organization (Fairmont, Hyatt, etc.) or private listers.

The database will model the two types of listers through an ISA relationship. It will model the types of units that each of the listers offer on a listing. In the case of a private lister, it will be a rentable unit (house, villa), for a hotel it will be a property (ex. Hyatt Regency Vancouver) that has bookable units. A hotel property and the private lister rentable unit will be under a ISA relationship, where both types can have amenities. The database will also contain the customers information about a reservation for a unit (a bookable unit or a rentable unit). Customers can also have memberships to a hotel organization.

This application will provide benefit to the offering and receiving parties of a unit listing; the organization and the customer. It will offer a way for customers to have access to a variety of listings, and the organizations will have a way to keep track of their listings and their current customers / booked units. Hotel and private listings are often separated in booking applications, so our application will offer both choices, and customers can browse through listings of their choosing.

Some of the functionalities will be the ability for organizations to post listings of available units, and the ability for customers to make reservations for available units, depending on if a listing exists. Listings will display the general information related to a unit, such as the organization, available amenities, cost, location, etc. Once a customer confirms a reservation on a unit, the listing will be removed. If a customer has a membership to a hotel organization, they may receive a discount or extra benefits from the hotel. The database will help to organize the relationships between the customers, listings, organizations, and units. It will provide a means to store customers information and keep track of listings.

For our tech stack, we will use JavaScript, HTML, CSS, and React.js. The backend will use Node.js to connect to a MySQL database.

