

1. Brief Project Description

Our project name is “UBC Survival Kit”. The **domain** of our application resides in student life, campus navigation, and amenities location services. This domain covers the daily life of university students, emphasizing the need for easy access to information about essential amenities.

The UBC Survival Kit aims to address the common issue faced by students in locating essential amenities such as microwaves, washrooms, water fountains, and cafes (that serve caffeinated drinks) within campus buildings. Often, students waste valuable time trying to find these services, leading to frustration and inefficiency. To address this, our application **models** the following aspects:

- **Utility:** The database stores information about all the utilities (Microwave, Washroom, Water Fountain) that exist inside campus buildings
- **Café:** The database stores information about all the cafes that exist inside campus buildings that serves caffeinated drinks
- **Drinks:** The database stores information about all the caffeinated drinks that are served in cafes
- **Amenity Locations:** The database stores detailed information about the locations of various amenities within different buildings on campus, by indicating the floor number and description of where it is located.
- **Building Information:** Information about each building, including its name, building code, operating hours, and amenities it houses
- **User Request:** database stores user requests for any updates about new or existing amenities, which can be processed to ensure the database remains accurate and up to date.
- **Users:** database stores user information including their email and password
- **Reviews:** The database will store user reviews of amenities, providing users information about their quality, accessibility, efficiency, and usability

In a real-life situation, a student rushing between classes may need to quickly find a microwave to heat their lunch. With the UBC Survival Kit, they can easily locate the nearest microwave, saving time and reducing stress. Similarly, new students unfamiliar with the campus can navigate their way to essential services (microwave/water fountain/washroom/cafe) without the hassle of searching aimlessly. This application enhances the overall campus experience by providing a user-friendly resource for finding amenities.

2. Database Specifications

The people using the database will be able to find various amenities such as water fountains located in buildings across UBC campus as well as cafe's. Conversely, they would be able to query by building code in order to find the amenities offered in each building as well. Users of the database can also access the images, and traits specific to the utility type/cafe, and they can search for reviews of specific utilities. They would also have the option to search by drink items to find cafes that serve the drink they want.

3. Description of the Application Platform

We will be using the department provided Oracle server as our database. Also, we will use JavaScript, Node.js, and React for our tech stack. Since we want to create a web application, we deemed this combination the best fit for our project.

4. ER Diagram

(Attached on the bottom page)

