

CPSC 304 Project Cover Page

Milestone #: 1

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Group Number: 43

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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.

2. Project Description

What is the domain of the application?

Our application's domain is fitness, outdoor recreation, navigation, and trail management, with a focus on cataloging information about various trails such as hiking, biking, and ski trails. It will organize trails by region and allow users to plan routes in the area. It will also allow users to write reviews on trails for future users to read. The goal of the application is to encourage users to visit, review, and share their experiences of trails all across British Columbia.

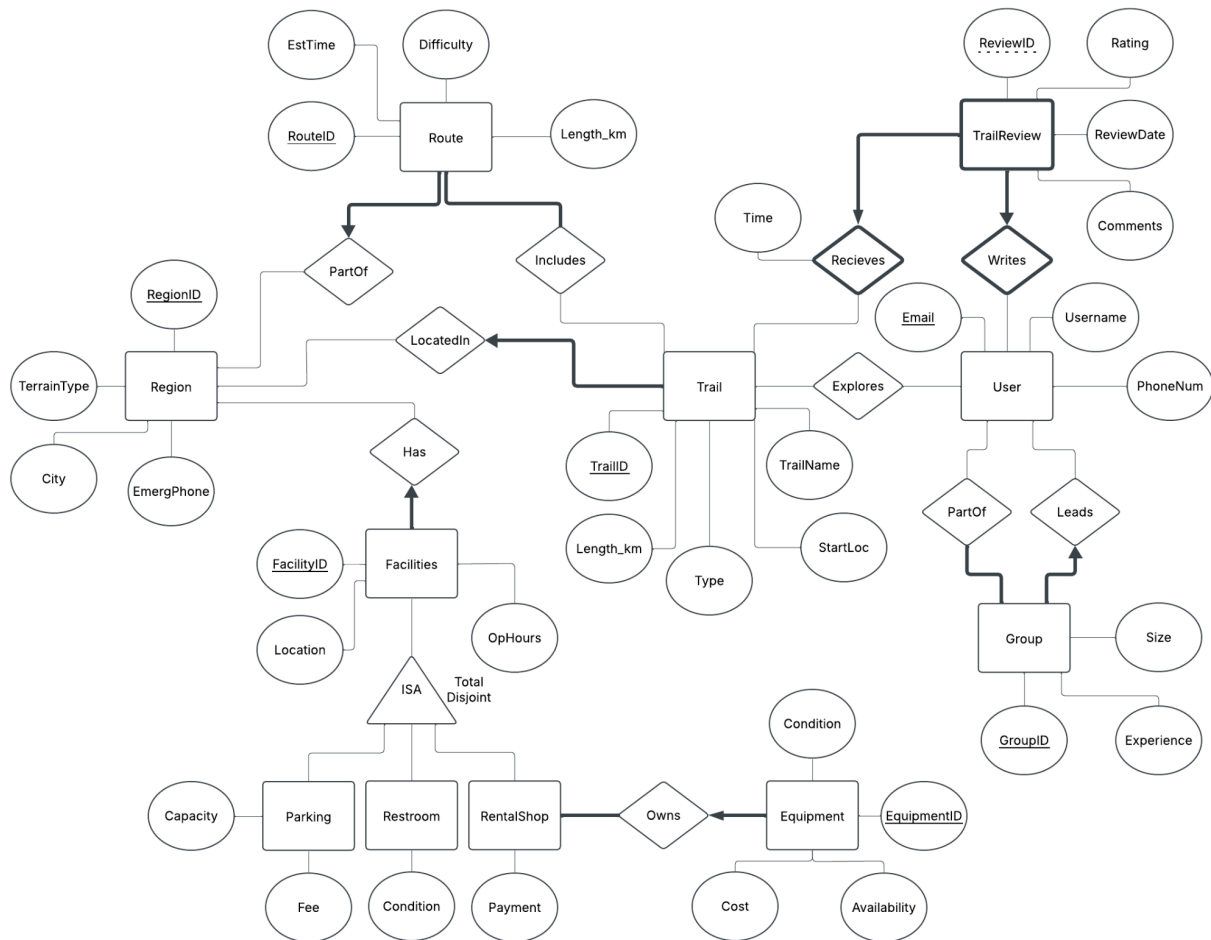
What aspects of the domain are modeled by the database?

The database primarily models the trail management and outdoor recreation of the domain. This is highlighted by our various entities such as Facility, User, Group, Trail, Region, Route, and Equipment. Our project addresses the need to create a comprehensive trail management system to help people of all experience levels in exploring trails all across British Columbia. A real-world application of this would be a group of beginners wanting to start their hiking journey and need accurate, reliable, and organized trail information to help plan and ensure their safety. Our project would also allow tourists or other visitors from a region to quickly find routes with positive trail reviews at an appropriate difficulty level.

3. Database Specifications

The database will allow users to explore, track, and add various kinds of trails with the ability to store and retrieve information about elevation gain, difficulty, and length. Users will be able to create trail groups based on their self-perceived experience levels and submit reviews based on their own trail experience, promoting outdoor recreation. Furthermore, the database stores information about trail management such as available facilities and emergency services ensuring user safety as well as efficient route planning. If there are local rental shops in the area, it also will track equipment availability so users can coordinate their routes and rentals in one place. Overall, the database provides a way for users to interact, and foster a passionate community for exploring the beautiful trails that British Columbia has to offer.

4. ER Diagram



6. Additional Comments

- For our TrailReview weak entity, we require the key of the User and Trail to identify the review. This means that any TrailReview left by a User will be deleted if the account is deleted.
- A Route is a collection of Trails. Every Route contains many Trails, and Trails may be a part of many different Routes.

7. AI Acknowledgment

We did not use AI for any part of this assignment.