University of British Columbia, Vancouver
Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: 1

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Group Number: 17

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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 Description

Our project will focus on creating a comprehensive web app dedicated to finding and recording hiking trails. Instead of scrounging the internet to find the best trail, all that data will be centralized within our platform, allowing instant access that is readily available with a simple search. The domain of this application is outdoor recreation and hiking logistics.

The project database models user interactions with hiking trails, logistics such as transportation methods and gear supply, and community engagement through user connections and trail reviews. It addresses the need for centralized hiking information, enabling users to explore trails, track personal hiking history, and connect with others.

Users will be able to discover and explore various hiking trails near them, supplying them with information that will be valuable for their excursion. The platform connects them to their hiking history, including attendance dates and completion times, allowing them to track their progress, recall their last visit, and set new challenges to improve their performance. They will have access to a variety of details such as recommended gear and where to buy it, image previews, hazards, and transportation methods to reach and conquer even the most far-off trails. To better foster the hiking community, users can also connect with friends to share trails and stats as well as post informative reviews for everyone to see. Ultimately, this application serves as a comprehensive database that unifies scattered hiking information and enables users to access details about themselves, their friends, and trails all from one outlet.

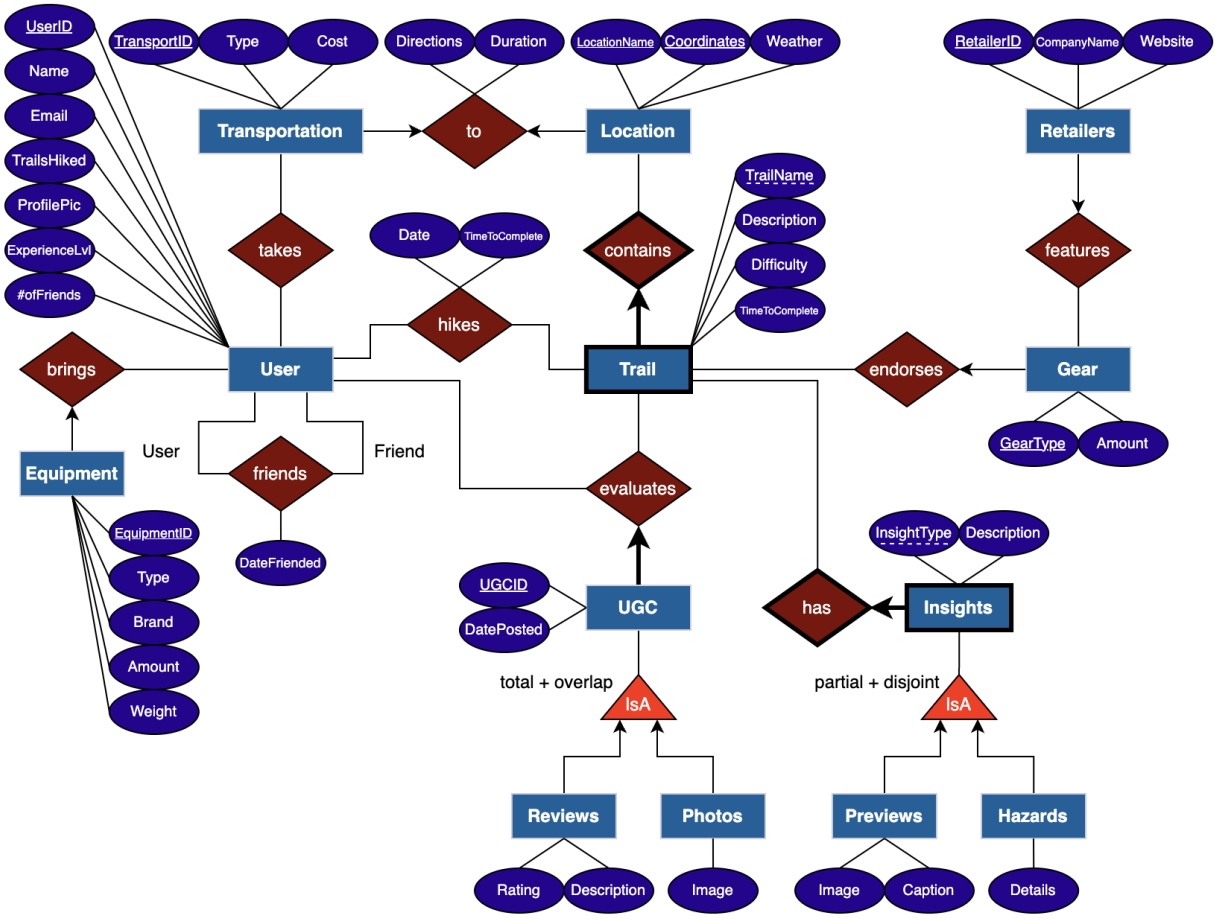
Database Specification

The database will provide functionality to track user hiking history, including attendance dates and competition times, to monitor personal progress and to share achievements with others. It also facilitates the retrieval of centralized hiking trail information including location, difficulty, and potential hazards to better prepare for their outing. Users can log the equipment they plan to bring to ensure readiness and safety, with the ability to share this list with friends to promote transparency and an optimized hiking experience together. It will also enable users to read and write trail-specific reviews stored on the database for users to assess and make informed decisions.

Application Platform

The database technology which the project will employ is Oracle. The intended tech stack will also utilize JavaScript, Node.js, and Express.js for the frontend and backend.

ER Diagram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