**University of British Columbia, Vancouver**
Department of Computer Science

# CPSC 304 Project Cover Page

Milestone #: __1___

Date: February 4, 2024

Group Number: Group 3

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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 email 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.

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# Project Description:

Pokéswap is a database designed to streamline the trading experience for Pokémon card fans. We aim to create a database to assist users with a comprehensive tool to manage and view their card collections, create trade offers, and comment on other collectors' posts in a seamless manner. Users can easily upload and sort through their personal Pokémon card collections, as well as view other's collections. The database is designed to model several aspects of the card trading domain, including users, cards of a user, and details of a specific card, including collector number, pokémon number, type, and other specifications of the card. This application domain is perfect as a CPSC 304 project, since it focuses on designing a relational database to manage complex relationships between users, their card collections, trade offers, and post interactions. It provides opportunities to explore database indexing, querying, and management – all essential concepts covered in CPSC 304.

# Database Specification:

- Users will be able to upload and organize their personal Pokémon card collection with relevant information (PSA rating, image verification, card collector number)
- Users can manage their inventory and set its visibility to public or private depending on their preference.
- Users can list trade offers with their preferred cards/prices, specifying the cards they are seeking in return.
- Users can sort their own cards by different criteria, and view their list of owned cards.
- Users can create posts showcasing their cards, as well as comment on other user's posts.
- Users will be able to change their personal information (e-mail, password, etc).

# Application Platform:

a. We will use the MySQL Database.
b. We will host the database through node.js (JavaScript) on an AWS Virtual Machine (EC2)

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# ER Diagram: