University of British Columbia, Vancouver
Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: 3
Date: March 7, 2025
Group Number: 50

Name	Student Number	CS Alias (Userid)	Preferred E-mail Address
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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:

The project is a database management system that organizes and catalogs Pokémon data. The domain of the project focuses on the Pokémon universe, specifically the various species, their moves, abilities, evolutions, and regional differences. It is designed for players and enthusiasts who want to explore detailed information about Pokémon, their interactions, and their evolution paths across different game versions and regions.

Repo link (also included in Canvas submission):
https://github.students.cs.ubc.ca/CPSC304-2024W-T2/project_c0w0b_d9o7h_w4r0g

Task Division

Each task is assigned so that each team member contributes to the frontend and backend development of their respective features/components.

Alan	Both	Maya
1,3,5,9	7 *Other development tasks such as frontend setup, project documentation, SQL database setup (SQL script to create all the tables and data in the database) server, controller, and service setup and documentation will be completed together.*	2,4,6,8

** numbers refer to "Core Features & Pages" below*

Core Features & Pages

1. Homepage / Main Navigation	● Description: The entry point for the application with navigation buttons to different functionalities. ● Features: ○ Welcome Message ○ Navigation Buttons (View Pokémon, Search, Add Pokémon, Advanced Queries)
2. View Pokémon Page	● Description: A page displaying a table of Pokémon with basic attributes. ● Features: ○ List of Pokémon (Name, Type, Base Stats) ○ Search by Name or Type (Basic Select Query)

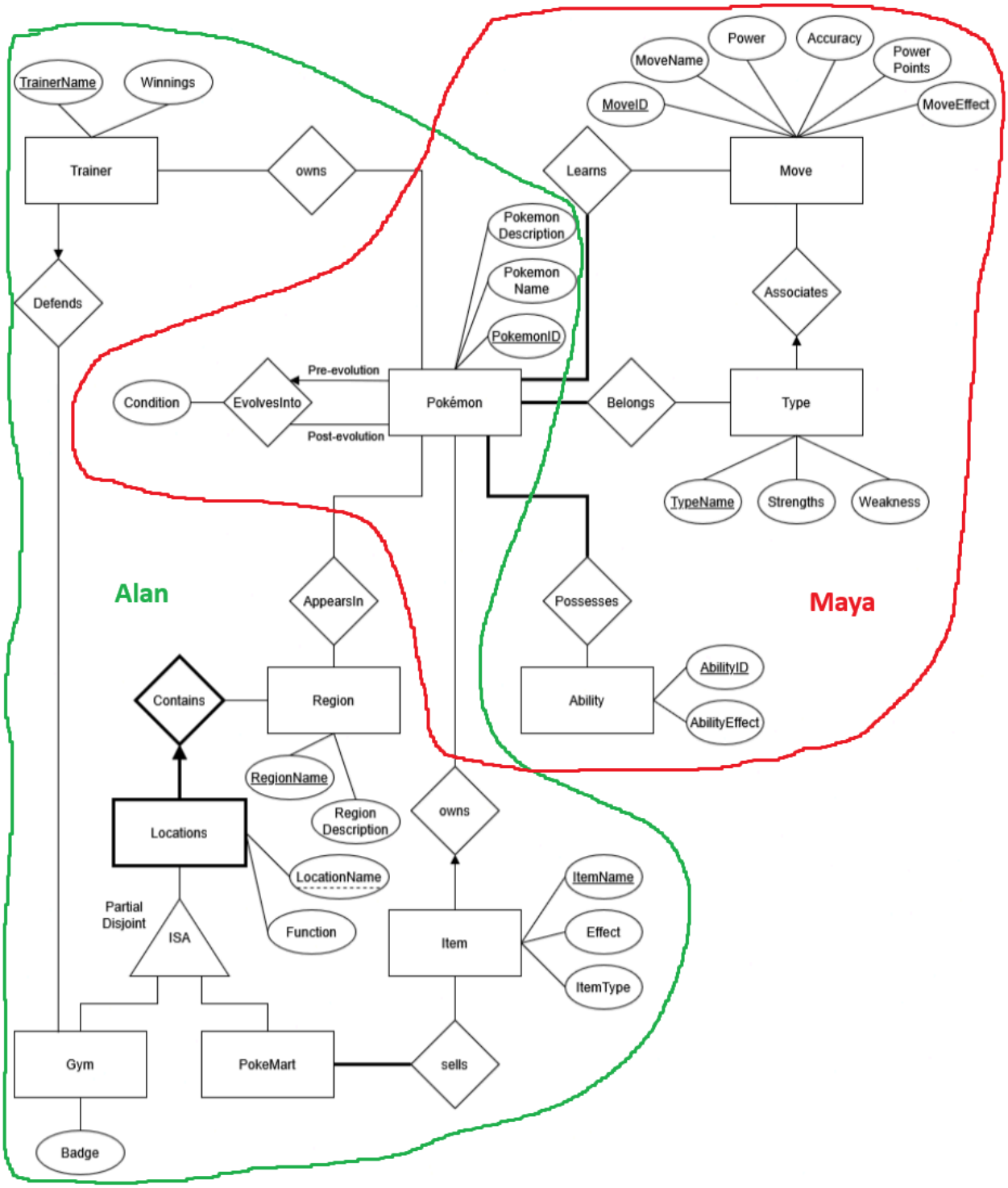
	○ View Details Button (Redirects to Pokémon Detail Page) ● Selection & Projection
3. Pokémon Detail Page	● Description: Displays detailed information about a selected Pokémon. ● Features: ○ Pokémon Name, Type, Base Stats ○ Evolutions, Abilities, Regional Appearances ○ Back to **"View Pokémon Page"** Button ● Selection & Join
4. Search & Filter Pokémon	● Description: Allows users to filter Pokémon by attributes like Type, Base Stat ranges, or Abilities. ● Features: ○ Dropdowns and text inputs for filters ○ Results displayed in a table ○ SQL Query generation based on selected filters ● Selection, Projection, Aggregation with GROUP BY, Aggregation with HAVING
5. Add Pokémon	● Description: Allows users to add new Pokémon to the database. ● Features: ○ Form with inputs for Name, Type, Base Stats ○ Dropdown menu for Type selection ○ Insert Query Execution ○ Confirmation Message ● Insert

6. Delete Pokémon	• Description: Allows users to delete Pokémon from the database.
	• Features:
	  ○ Delete Button on Pokémon Detail Page
	  ○ Popup Confirmation
	  ○ Delete Query Execution
	• Delete

7. Advanced Queries Page	• Description: Allows users to perform more complex queries like:
	  ○ Find Pokémon with the highest Speed in a region
	  ○ List Pokémon that can learn a specific Move
	  ○ Show Pokémon that evolve through special conditions
	• Features:
	  ○ Dropdowns + Inputs for Query Parameters
	  ○ Results Table
	  ○ Execute Button
	• Aggregation with GROUP BY, Aggregation with HAVING, Nested Aggregation with GROUP BY, Join & Division

8. Adding/Deleting List of Locations	• If its a gym, we can add a list of trainers • If its a pokemart, we can add a list of items • Shows list of trainers, owned pokemons, their total winnings & which gym they defend
9. Display Region/Locations	• Adding delete region/locations • Shows pokemon in respective regions • Hovering over a region shows its description

Entities/relationships are split up as followed: Each member will ensure their assigned relationships are reflected in both the database schema and the application features that interact with them



Timeline

Week	Date	Tasks
1	March 3-8	Finish Milestone 3 ● Splitting frontend/backend tasks ● Project setup for Oracle & Javascript ● Setup sample project
2	March 9-15	● Database setup ● Simple homepage ● Start on simpler tasks: 1,2,3,5,6,8
3	March 16-22	● Finalize on tasks: 1,2,3,5,6,8 ● Start on harder tasks: 4, 7
4	March 23-29	● Finalize on frontend tasks ● Finalize on tasks: 4, 7
5	March 30 - April 2	Buffer days before Milestone 4 hand in