CPSC 304 Project Cover Page

Milestone #: ___1___

Date: ___2025-02-10____

Group Number: ___77____

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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

Application Name: Accelera

App Logo:

(Open source logo from Figma)

a. **What is the domain of the application?**
   Describe it. The domain of an application refers to the area of knowledge your application resides in. For example, if I am making an application for a hospital, the domain would be something like healthcare/patient management/logistics (it would depend on what the application is trying to do).

   The domain of our application falls under the startup or entrepreneurial ecosystem, focusing on facilitating connections between startups, investors, accelerators, and mentors. It serves as a central hub where startups can showcase their business ideas, seek funding, receive mentorship, and access valuable resources to support their growth. The platform provides a structured way for investors and accelerators to track progress, manage funding rounds, and identify promising startups. Additionally, the application supports and encourages networking by establishing event participation and accelerator applications to ensure that startups have the opportunity to grow. By connecting all these components with each other in the startup ecosystem, this application streamlines the process of startup growth and encourages these companies to thrive.

b. **What aspects of the domain are modeled by the database? In answering this question, you will want to talk about what your project is trying to address and how it fits within the domain. It is likely that in the process of answering these questions you will bring up examples of a real-life situation that the application could be applied to.**

   The database models several key components of the startup ecosystem, such as startups, mentors, investors, and funding opportunities. In the way these entities are managed in the database, it acts like a resource library for startups and allows for easy access. There are many interactions and processes that take place between startups, investors, accelerators, and events, and our database addresses common real-world challenges that arise during this process in the following ways:

1. **Startup Funding**
   - In real-world, startups often struggle to be sufficiently funded by investors
   - Multiple investors from the same or different investment group can simultaneously fund a startup, and we need a system to help manage the process efficiently.
   - The database models funding rounds to allow multiple potential investors to contribute to specific rounds of funding.

2. **Mentorship**
   - Startups often struggle to find and access industry experienced mentors who can provide guidance.
   - The database models a many-to-many relationship with mentors and startups, allowing startups to easily access multiple mentors and vice versa.

3. **Accelerator Programs**
   - Startups apply to many accelerator programs and organizations, and some receive thousands of applications per cycle.
   - A system is needed to track application-specific attributes and status for all applications.
   - The database establishes the relationship applications between startups and accelerator programs, storing relevant details (ex: application status, date, etc.)

4. **Networking**
   - Networking is a key step in growing a startup, and attending events often reveal valuable funding and mentorship opportunities.
   - The database captures event participation, keeping record of which startups have attended specific events (pitch days, conferences, workshops, etc.)

5. **Sharing resources**
   - Startups, in their early stages, would benefit greatly from resources such as educational materials, templates, and guides.
   - The database models resources that are accessible to startups, and maintains which startups are accessing which resources.

6. **Job Posting**
    ○ Startups can post jobs and look for staff.
    ○ The database captures the name, description, type, and posted date of the job enabling users to view and filter the job postings.

Database specifications: (3-5 sentences)
a. What functionality will the database provide? I.e., what kinds of things will people using the database are able to do it.

The primary functionality of the database is to provide a systematic and efficient way to manage the many interactions that connect startups, investors, mentors, accelerators, and events. Startup companies are able to create and manage startup profiles; from there they will be able to apply for funding, connect with experienced mentors for guidance, and track investment rounds. Users can create and manage profiles, and the investors and mentors that fall under this general category each have specialized attributes. To ensure startups have the necessary support, tools, and connections to grow, the database facilitates accelerator applications, event participation, and access to a library of resources with materials such as downloadable templates, guides, and industry insights.

AI Declaration
No AI tools were used in the completion of Milestone 1.

Database ER Diagram

num_of_investors — name — email

InvestorGroup

invest_group_id

firm

investment_focus

capital

BelongsTo

User — user_id — password

Total Overlap

ISA

Investor — Mentor

bio

yeas_of_experience

expertise

role — start_date — end_date

startup_id

name

description

pitch_deck_url

stage

founded_date

Mentors

Funds

Secures

FundingRound

amount_raised

round_no

round_label

date_closed

Startup

Attends

registration_date

Posts

location

name — description

Event

event_id — event_type

date

access_date

Accesses

application_date — Applies — status

Accelerator — accelerator_id — cohort_duration

name — location — program_focus

cohort_start_date

download_date

resource_id — Resource — link

name — description

JobPosting

posted_date — title — job_type — job_id — description