University of British Columbia, Vancouver
Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: 1

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Group Number: 114

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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

2. Brief Project Description

a. **What is the domain of the application? Describe it.**

We are building a project with a domain focused on finance - an online application for managing funds, and fundraising activities for charity.

b. **What aspects of the domain are modeled by the database?**

In many parts of the world, concerns have been raised about the transparency, legal rights, and authenticity of fundraising activities. When someone starts a fund to help individuals or groups in need, it's often unclear how the money will be used, how much is actually needed, or whether the funds will reach those in need. For example, during the conflict between Israel and Palestine, many people are in desperate need of financial support, but donors have no clear way to ensure their contributions are being used effectively or reaching the right people. Our application aims to address these concerns by offering services that verify how funds are being used, facilitate secure transactions, and confirm the legitimacy of both the individuals seeking help and the organizations managing the funds.

3. Database Specifications (3-5 sentences)

a. **What functionality will the database provide?**

The database will allow users to create accounts with various roles, including individual fundraisers, organizations, banks, audit companies, volunteer organizations, service companies, admins, and regular users.

Users can query documents related to funds, access verification details for companies, and see beneficiaries of the funds. Banks, organizations, and audit companies can create, update, and delete documents related to their records but cannot verify their own accounts or mark funds as legitimate; funds must be verified by an external party.

Admins will have broader control, with the authority to create, update, delete, and verify companies, organizations, and funds, making them the sole users capable of validating these entities.

4. Description of the Application Platform (2-3 sentences)

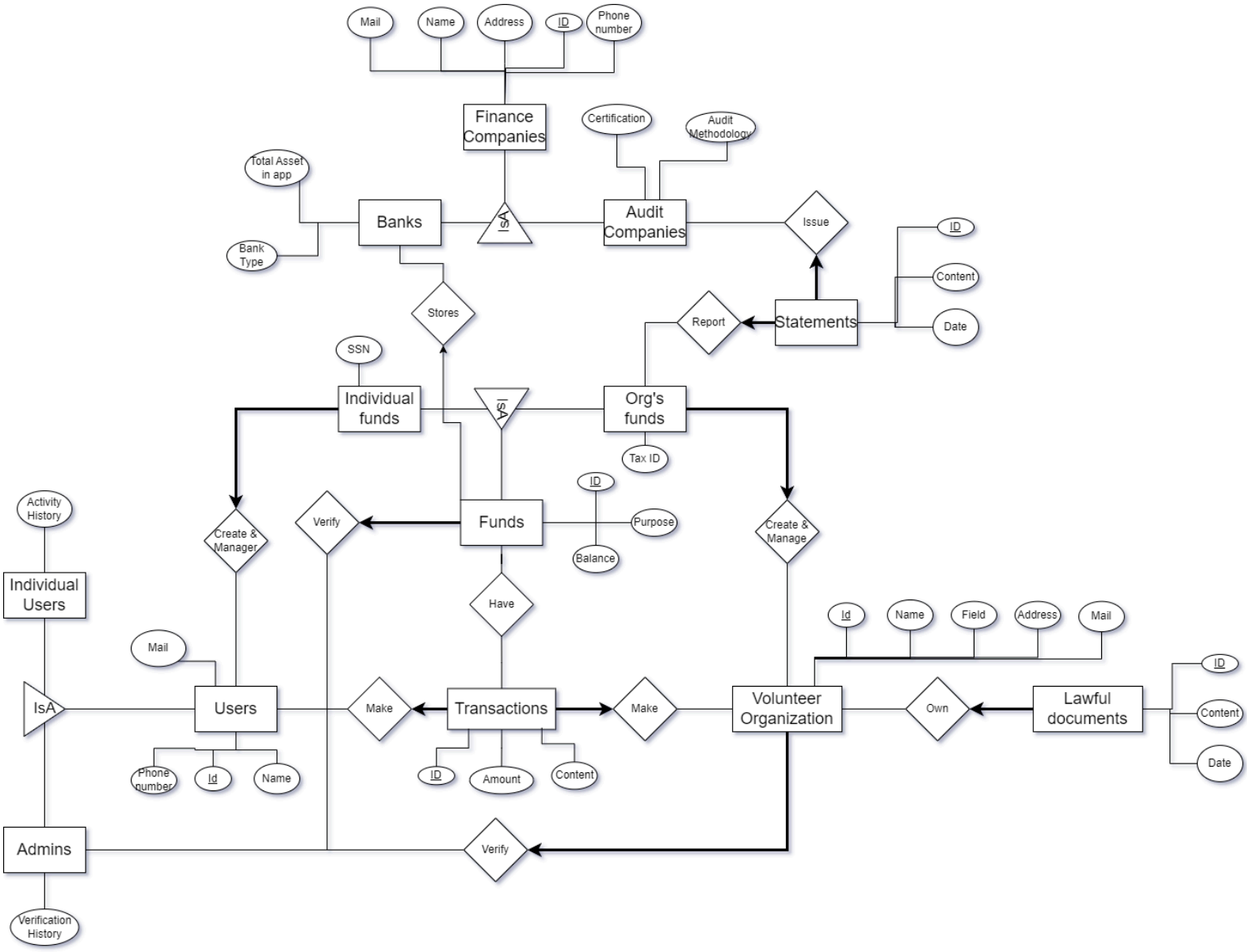
a. **What database will your project use?**

We will use Oracle database (department-provided).

b. **What is your expected application technology stack?**

We will use Node.js for the backend and React for the frontend, all are Javascript.

5. ER Diagram for the Database



6. E/R Diagram Expectations

The diagram adheres to our expectations. There are 7 entities, 3 ISA hierarchies, and each entity has a primary key. The relationships are also set to be appropriate.

7. Other Comments (Optional)