University of British Columbia, Vancouver
Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: 1

Date: July 15, 2025

Group Number: 8

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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

2. A brief project description answering these questions:

   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).

      Our application operates within the agricultural domain, with a specific focus on Garden and Plant Management. It enables users (i.e., garden owners and gardeners) in managing key aspects of garden care, including task tracking, plant growth monitoring, and aggregating data on environmental conditions alongside plant development observations, to name a few. Our goal is to provide a centralized platform that streamlines garden oversight and helps users identify potential patterns; ultimately, promoting more informed, sustainable decision-making.

   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.

      Our database models key aspects of our domain through entities such as User, Task, Landplot, GardenType, GardenLog, PlantLog, PlantFamily, and Soil. Collectively, these entities capture the planning, execution and tracking of garden-related activities in various capacities (i.e., home and community settings). It addresses the challenges faced by hobbyists and small-scale gardeners in maintaining organized records of their work.

      By structuring this data, this application helps users analyze trends, identify patterns, and optimize future planting decisions to garden more efficiently.

3. Database specifications: (3-5 sentences)

   a. What functionality will the database provide? I.e., what kinds of things will people using the database be able to do.

      Our database will enable users to **add and remove planting history** associated with their own land plots, including details about plant growth, health, and environmental conditions, while also supporting **tracking recurring planting patterns or trends**. Furthermore, users can **view and filter planting histories**, either by specific users, plant types, or environmental factors. Tasks related to garden maintenance can be **created, assigned, and updated**, providing a structured way to manage garden activities across different users and roles.

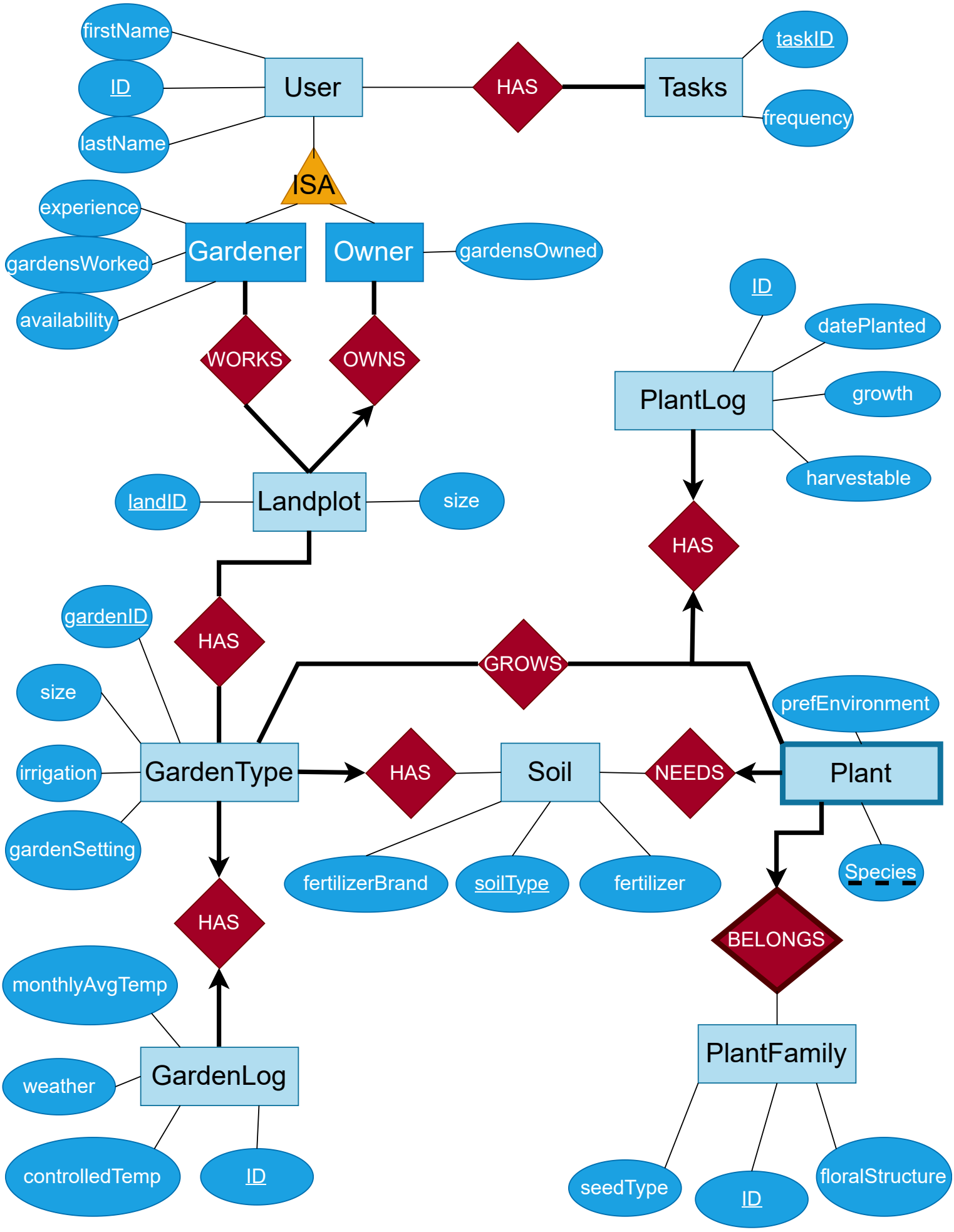
4. Description of the application platform: (2-3 sentences)
   a. What database will your project use (department provided Oracle, MySQL, etc.)? See the "Project Platforms" section of this document for more information.

      We will be using the department provided Oracle for our database.

   b. What is your expected application technology stack (i.e., what programming languages and libraries do you want to use)? See the "Project Platforms" section of this document for more information.

      Apart from Oracle as our database, we will be using JavaScript (with Node.js) for the backend. For the frontend, we intend to use HTML, CSS, and JavaScript, with Github/Git for version control throughout the project.

I. You can change/adjust your tech stack later as you learn more about how to get started for the project via latter tutorials.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