University of British Columbia, Vancouver
Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: 1

Date: Friday Oct 6, 2023

Group Number: 127

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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

1. A completed cover page (template on Canvas)

Above.

2. A brief project description answering these questions:
    a. What is the domain of the application? Describe it.

This application has been made for community garden management and its main domain is logistics.

    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.

Often, scheduling and management of a large community garden poses to be a challenge. It is difficult to assign gardeners as they have varying availability. Moreover, it is hard to keep track of the tools (Gardener A might need Tool B which is currently being used by Gardener C). Bad management could lead to delays in plantation and harvesting, and delays could result in spoilt crops and monetary losses.

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.

The database will allow for community members to be gardeners, plot owners, or both. Plot owners are responsible for managing their plot and will be able to create tasks for gardeners to complete on their plot (ie. Water plot at @5pm tomorrow). Community members will be able to rent a plot and view information on vacant plots such as plot size and monthly rent price. As a gardener, you can view the list of tasks and assign them to your own schedule. Gardeners will be able to view information on their task, such as task descriptions, required seeds or tools, and which shed to find the required seeds or tools. The database will also keep track of the number of seeds and tools stored in each shed. Lastly, all community members will also be able to view which plants are planted on each plot, along with information and care instructions of each plant type.

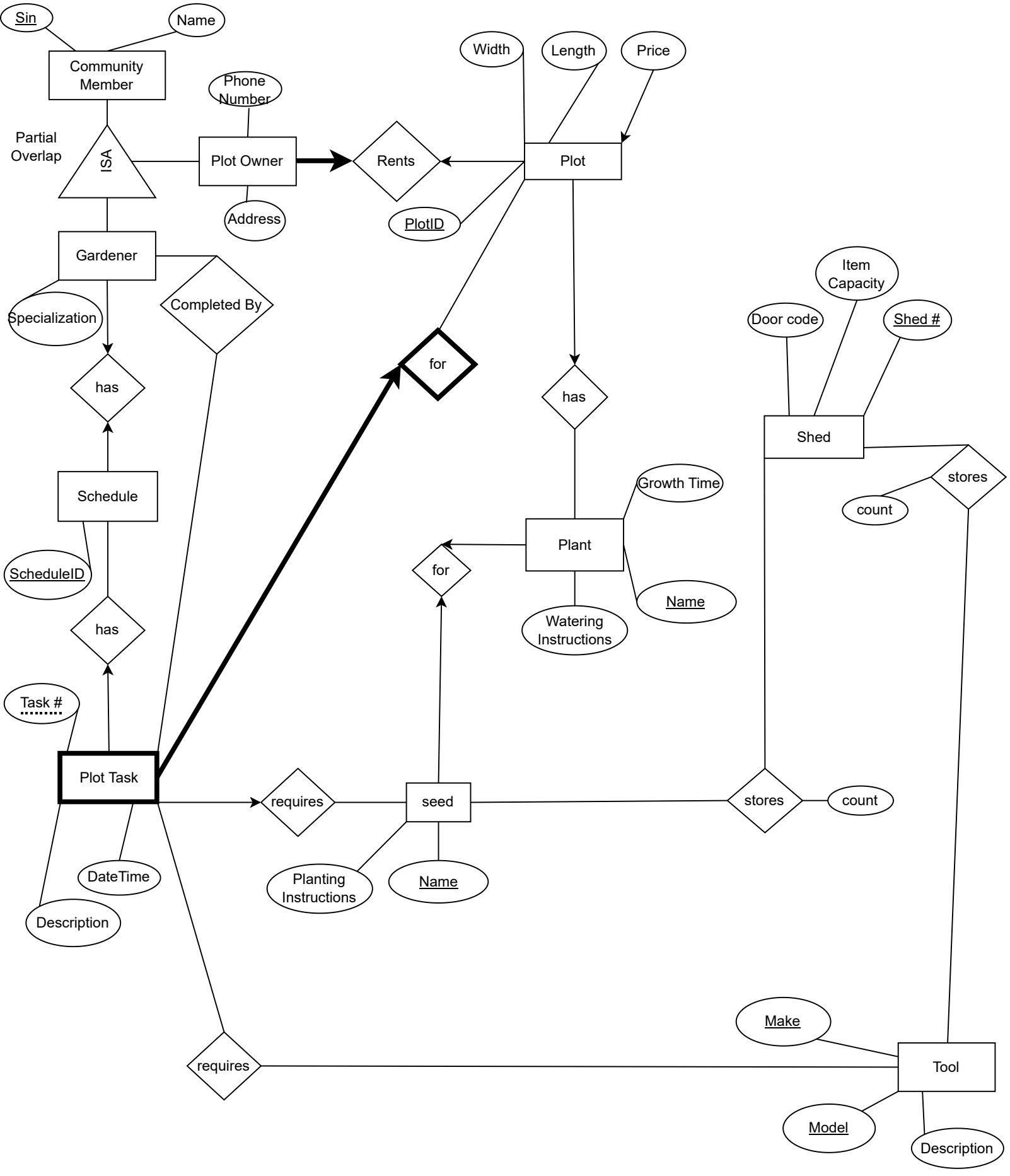
4. Description of the application platform: (2-3 sentences)

Our project will use an Oracle server, we will use the department servers. Our expected technology stack is to use Oracle with Java. We plan to use IntelliJ ultimate as our IDE. From the course resources we've also noted that we will need to use Oracle Driver as a Project Dependency. With this, we can use the DriverManager class which provides the static getConnection() method.

5. An ER diagram for the database that your application will use. It is OK to hand-draw it but if it is illegible or messy or confusing, marks will be taken off. You can use software to draw your diagram (e.g., draw.io, GoogleDraw, Microsoft Visio, Powerpoint, Gliffy, etc.) The result should be a **legible** PDF or PNG document. Note that your ER diagram must use the conventions from the textbook and the lectures. For example, **do not** use crow's feet notation or notation from other textbooks).
    a. Please limit your diagram to a letter size page (8.5 x 11 inches). If you require additional space, talk to your project mentor **beforehand** as this might mean that your project is a bit more complicated than what we expect.

Attached.

6. Your E/R diagram should adhere to the expectations listed above.
7. Other comments, as appropriate, to explain your project.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