University of British Columbia, Vancouver
Department of Computer Science
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CPSC 304 Project Cover Page

Milestone #: 1

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Group Number: 80

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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

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A brief project description answering these questions

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

The domain of our application is Property Management. This domain includes the activities involved in overseeing, maintaining, and operating real estate properties on behalf of owners. It includes both residential and commercial properties.

b. What aspects of the domain are modelled 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 key aspetcts within the domain of Property Management to reflect the management of a portfolio of properties by a firm such as Orca Realty and Bodewell - both local firms that operate in the Lower Mainland. In terms of use-cases, the firm could potentially use the database for the following:

- Managing the occupancies of properties within the portfolio
- Tracking the "balance sheet" of properties in terms of income (rentals) vs. expenses.
- Tracking lease validities and renewals, and identifying vacancies.
- Coordinating regular maintenance and warranties across properties.
- Managing maintenance requests.
- Reporting to owners/stakeholders on the health and profitability of the property assets.

Based on the above, we can identify the following key aspects within the domain that would be modelled by the database:

- management of property information,
- management of tenant information,
- management of ownership structure,
- management of financial transactions,
- lease management, and
- maintenance tracking.

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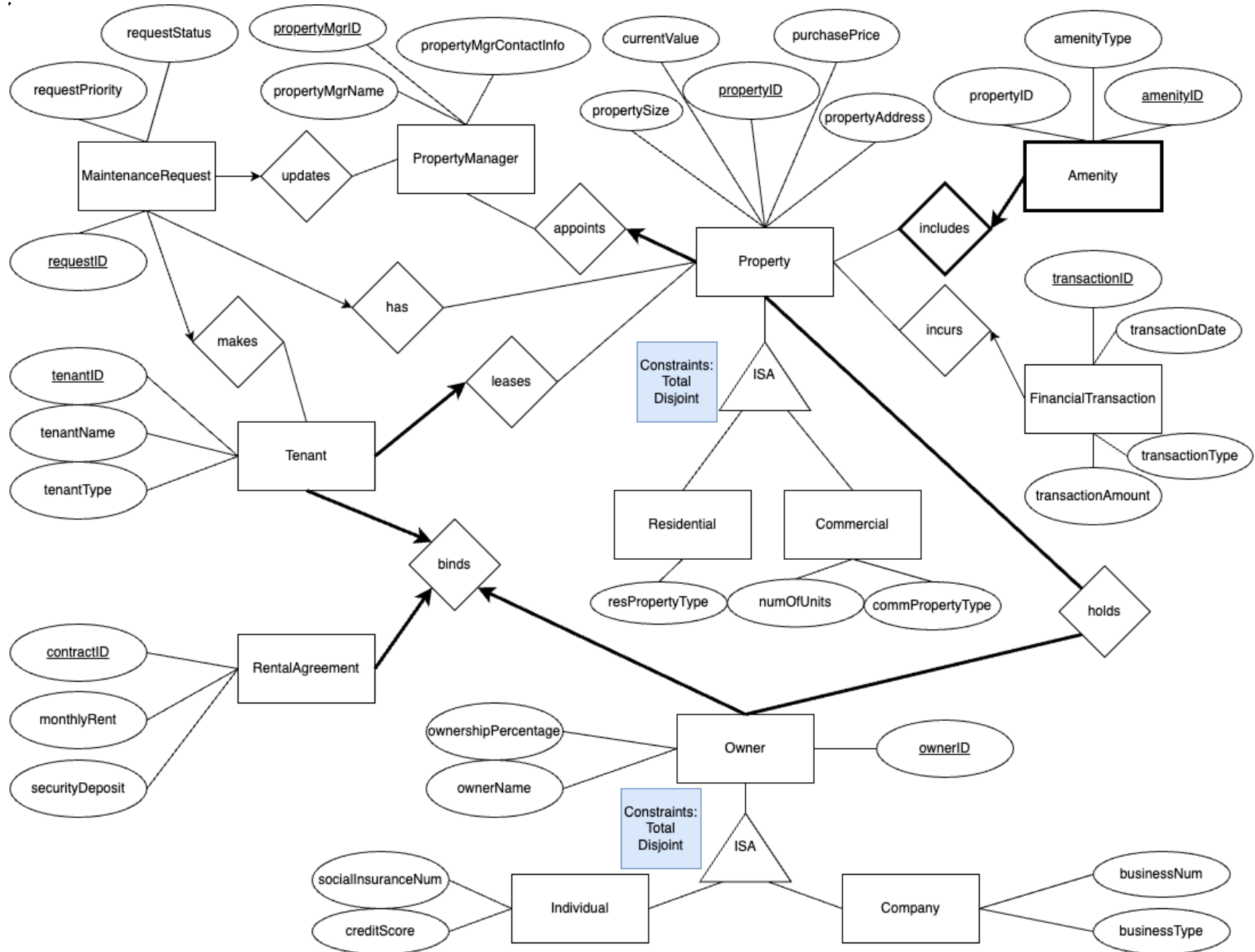Database specifications: (3-5 sentences)

    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 users (likely property managers) to store and manage essential information related to each property, including details about owners, tenants, and associated amenities. Users can track lease agreements, record rent payments, and maintain financial transaction histories for accurate reporting. They will also be able to submit and monitor maintenance requests, further facilitating communication between tenants and service providers. Additionally, the system could help categorize properties based on type (e.g., residential vs. commercial) and assign responsible managers, improving organization across departments.

AI Acknowledgment:

No AI tools were used in this assignment.

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