CPSC 304 Project Cover Page

Milestone #: ___1_____

Date: _____2/7/2023_____

Group Number: __195_____

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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)**

☐ **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 will reside within the door-2-door sales industry for alarm & solar services. Door-2-door sales refers to sales representatives meeting homeowners and selling products at their doorstep.

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 goal of this application is to track the process of a door-2-door sales pipeline for a sales office. A sales office is made up of a manager, salesmen, and technicians. Our model describes For instance, consider a salesman who starts an order with a client. Within the order, the client purchases a solar panel system and an alarm system. At this point, the salesman is no longer needed within the sales pipeline. The order is then processed for the technician who will fulfill the installation of selected services with the required equipment needed.

☐ **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 manager's role within our database is to match installation dates (within client orders) to technicians based on their availability. Additionally they will be able to keep track of orders and installations for a sales office, add / remove / change employee status. On the other hand, salesmen will be allowed to add and update client data along with creating and editing orders while technicians will have access to changing the order's fulfillment status and view the services within the order. Salesmen and technicians however will not be allowed access to manager privileges.

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

a. What platform will your project use (PHP/JDBC/etc.)?

b. What is your expected application technology stack (i.e., any other things that you're using other than whether you're using PHP or JDBC)? Note that for DBMSs, we will only provide support for using the department's installation of Oracle. You are on your own for anything else. i. You can change/adjust your tech stack later as you learn more about how to get started for the project via latter tutorials.

As of now, our platform will be within Oracle. Our main back-end language will be in PHP to communicate with our database. Our front-end will be in ReactJS.

☐   **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.

☐   **6. Your E/R diagram should adhere to the expectations listed above.**

☐   **7. Other comments, as appropriate, to explain your project.**

Milestone 2

2. A brief (~2-3 sentences) summary of your project. Many of your TAs are managing multiple projects so this will help them remember details about your project.

Our application resides within the door-2-door sales industry for alarm & solar services. Door-2-door sales refers to sales representatives meeting homeowners and selling products at their doorstep. We aim to create a system to track the sales process for stakeholders such as salesmen, managers, and technicians.

3. The ER diagram you are basing your item #3 (below) on. This ER diagram may be the same as your milestone 1 submission or it might be different. If you have made changes from the version submitted in milestone 1, attach a note indicating what changes have been made and why.
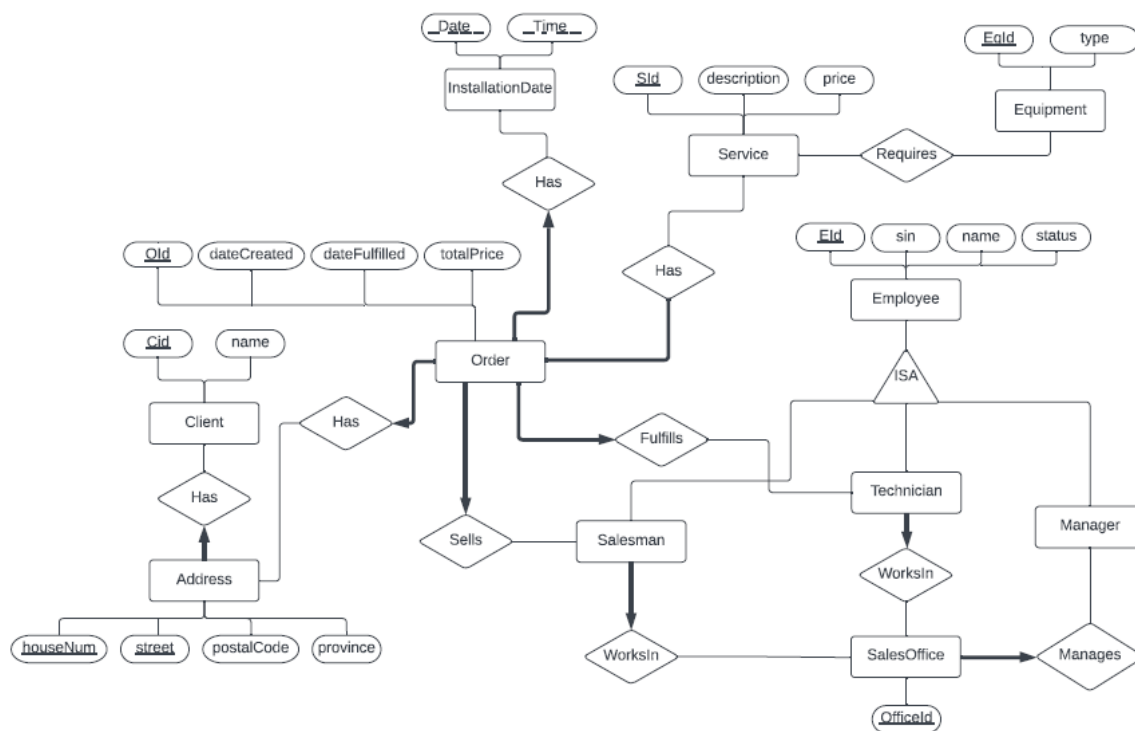
4. The schema derived from your ER diagram (above). For the translation of the ER diagram to the relational model, follow the same instructions as in your lectures. The process should be reasonably straightforward. For each table:

a.   List the table definition (e.g., Table1(attr1: domain1, attr2: domain2, ...)). Make sure to include the domains for each attribute.
b.   Specify the primary key (PK), candidate key, (CK) foreign keys (FK), and other constraints (e.g., not null, unique, etc.) that the table must maintain