University of British Columbia, Vancouver

Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: 1

Date: 7/14/2024

Group Number: 10

Name	Student Number	CS Alias (Userid)	Preferred Email
Elise Samas	**17412552**	**e5o8h**	**elisekayte@outlook.com**
Ethan Hansen	**16566192**	**s3d6p**	**ethan.t.hansen@gmail.com**
Cindy Wong	**34303140**	**u2z2b**	**cindy.wong2811@gmail.com**

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

Milestone 1 - Project Proposal, Conceptual Design: ER Diagram

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Project Description

Application Domain

The domain of the application is case management for a small law firm, Seattle Speeding and Traffic Tickets (SSTT). The application helps keep case records intact, accessible, and organized by keeping track of important information for each case and related entities.

Aspects Modeled

Aspects of the domain that are modeled by the database include clients, cases, and courts, prosecutors, judges, and officers. Clients often contact SSTT for updates regarding their cases. The database could be used to **lookup case information for a specific client**. Secondly, by keeping track of case dates and courts, it can be used to **determine an attorney's weekly schedule** - including commuting to different courts. It could also be used to **understand patterns in outcomes** across different courts, prosecutors, judges, and officers in order to gain a competitive advantage.

Database Specification

SSTT will be able to store and access information about **Clients**, such as their personal info and contact, along with details about their **Insurance.** They will also be able to access information about each **Ticket**, such as the date of issue, the fine amount, the **Client** who it was issued to, and the **Officer** who issued it.

Additional information can be stored if the ticket is a certain type - for example, if a ticket is issued for **Speeding**, then lawyers can see what speed the vehicle was going and what the speed limit of the location was. **Parking** and **Camera** tickets also hold information.

Each ticket that the firm handles is filed as a **Case**, which are overseen by a **Judge** in a **Court** and negotiated by a **Prosecutor**. Lawyers are able to access all information about each of these entities related to a certain case with the goal of helping their clients.

Application Platform

Database Used

We will be using the department provided Oracle database.

Expected Technology Stack

We'll be using the JavaScript sample project as the foundation for our project, which uses Node.js with Express on the backend, with the oracledb module. The frontend will be a static webpage built with HTML and JavaScript.

ERD Diagram

Also attached as a .pdf file in our submission.