CPSC 304 Project Cover Page

Milestone #: 1

Date: July 9

Group Number: 34

Name	Student Number	CS Alias (Userid)	Preferred E-mail Address
Jack Yao	29843927	s9n0s	jackyao2004@gmail.com
Joshua Calalang	66829102	u6x4h	joshuacalalang@hotmail.com
Rahul Kamath	25650656	t9i7n	rahul.kamath2512@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

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).

The domain of the application relates to the food and online delivery industry, specifically the management between customers, delivery drivers, and restaurants. This application intends to manage data of customers (e.g. food preferences/allergies and residing location), delivery drivers (e.g. working time and locations), and restaurants (e.g. food items and its ingredients). The emphasis is not on the retail/sales of food, but rather organizing the collection of data from the "end users" (i.e. the three mentioned above) of the industry.

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 database models essential logistics of the food delivery industry. It addresses the specific needs of both the customer and the restaurant and streamlines the overall process of ordering food online. It centralizes menus and ordering. While previously a customer would have to visit individual restaurant websites or call them directly to view their menus or place orders, our application aggregates all of this in one platform. By offering an interface/structure for the user, such as their preferences or their address, our project aims to simplify the ordering process through normalized data. As for the restaurants, it organizes their menus as well as breaking down food items into their ingredients, and the delivery drivers are also "modularized" such that they can act as separate entities from restaurants. With additional ambitious features such as ingredient sources (e.g. local locations for respective ingredients) or restaurant ratings, the project intends to organize data from the industry.

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.**

From a customer's perspective, the database will allow them to browse restaurants, view their menus, as well as inspect the ingredients used in each food item such that it meets their preferences. Through the application, the customer would then place orders through the data they viewed with the database.

From a restaurant's perspective, the database would organize the dishes in their menu as well as the ingredients of each. Furthermore, it could help them identify ingredient sources from the database for their stock. Through the application, the restaurant would receive orders from the customers and be assigned a driver available to their respective location and time.

For drivers, the database can be used to track the orders that they have completed, as well as pending orders to be assigned to them by the application. The database will provide the data relating to the locations and availability of the drivers, such that the application would handle the orders appropriately.

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 Oracle server provided by the department.

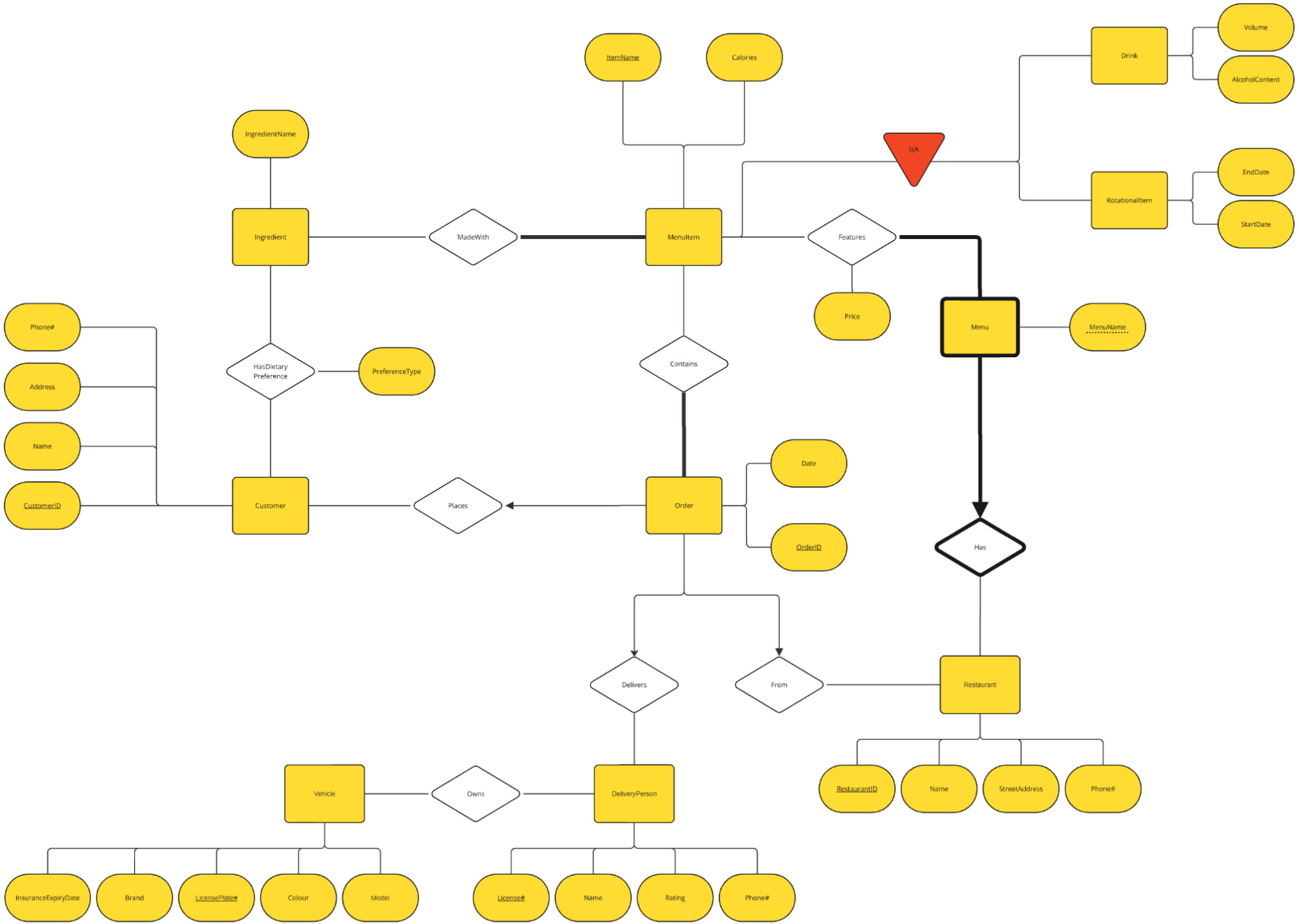
b. What is your expected application technology stack (i.e., what programming languages and libraries do you want to use)? See the "Project Platforms" section of this document for more information.

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

We intend to work with a Node.js and Express server for the backend and will consider HTML/CSS or React for frontend. Additionally, as we are using the department's Oracle server, we will also use the `oracledb` module.

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.**


ItemName
Calories
Volume
Drink
AlcoholContent
IngredientName
IsA
EndDate
RotationalItem
StartDate
Ingredient
MadeWith
MenuItem
Features
Price
Menu
MenuName
Phone#
Address
Name
CustomerID
HasDietary Preference
PreferenceType
Contains
Date
Customer
Places
Order
OrderID
Has
Delivers
From
Restaurant
Vehicle
Owns
DeliveryPerson
RestaurantID
Name
StreetAddress
Phone#
InsuranceExpiryDate
Brand
LicensePlate#
Colour
Model
License#
Name
Rating
Phone#