University of British Columbia, Vancouver
Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: 1

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Group Number: 6

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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. 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 this application is storage/business management. The application is designed for a hotpot restaurant storage. In this application, business owners can list, modify, delete items in a database which provides a more efficient way of storage management.

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 in the application could be applied to.

Our project would be a system that helps a hotpot restaurant manage the storage more efficiently, helps saving human resources, and helps managing all the food and other stuff locations to help the store's daily operation. For example, if the store doesn't have enough sweet corn, we need to determine how much is left, use the daily use to predict when it will run out, and then call the supplier to buy more. And if they can't send it to us in time, the store could notice the customers to avoid customer complaints and 1-star Google reviews.

3. Database specifications: (3-5 sentences)
a. What functionality will the database provide? I.e., what kinds of things will people using the database are able to do.

The database for the hotpot restaurant is primarily focused on storage management. It will efficiently organize and track the inventory of ingredients, drinks, and other items essential for the restaurant's operations. The system will enable easy monitoring of stock levels, and a structured storage layout for quick access to stored items. By centralizing storage-related information, the database will enhance the overall organization and accessibility of essential resources within the restaurant.

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 MongoDB for this project. MongoDB is a source-available, cross-platform, document-oriented database program which has high flexibility, scalability and real-time

processing. MongoDB is classified as a NoSQL database product, utilizing JSON-like documents with optional schemas.

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

frontend technologies: react (html, javascript)
backend technologies: javascript
additional language libraries: mongoose, node.js
We use react since it is a robust JavaScript framework and library for building dynamic and responsive user interfaces.
We use node.js since it works seamlessly with MongoDB through the native driver or Mongoose ODM (Object Data Modeling Library), enabling efficient backend development.
We use mongoose since it simplifies data modeling and validation for MongoDB, making it easier to work with inventory data.

6.

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