University of British Columbia, Vancouver
Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: 1

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Group Number: 55

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

The domain of the application is Education and Child Care Industries. More specifically, these establishments have caretakers who take care of young children when their parents are busy.

b. What aspects of the domain are modeled by the database?

Oftentimes, parents come to pick up their children at the childcare center and ask what they have done for the day. The database models what the child does in the childcare, such as what activity they did or what food they had for lunch. It also helps the childcare keep track of the families that it services and the caretakers that it hires.

Database Specification
What functionality will the database provide?

The childcare company manager can use the database to manage various childcare branches under its wing. Managers are able to update the contact info of the childcare facility branches and add new branches to the system. Users of the database will be able to record and update the list of the families and children that each branch services as well as the caretakers that work for each branch. Users of the database will also be able to view and update the rooms numbers and capacity of each room in each branch of the childcare company. Additionally, users like the parents will be able to view and record what the child has done in the childcare facility such as what activity they did, the caretaker that hosted the activity, what food they had for lunch, and the caretaker that prepared the lunch.

Description of the Application Platform

a. What database will your project use (department provided Oracle, MySQL, etc.)?

This project will use a MySQL database hosted on Amazon RDS.

b. What is your expected application technology stack?

React will be used to create a website hosted on Github Pages. To connect to our database, the website will make API calls to an Amazon API Gateway. The API Gateway will call a Python AWS Lambda function which will connect to and query our MySQL database using the MySQL Connector/Python library.

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ER Diagram