University of British Columbia, Vancouver
Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: 3

Date: October 25, 2024

Group Number: 4

Name	Student Number	CS Alias (Userid)	Preferred E-mail Address
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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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Due @10pm on Friday October 25

Repository Link

https://github.students.cs.ubc.ca/CPSC304-2024W-T1/project_c3r3z_o3e0n_r5e5u

Everyone has committed to the repository!!!
Angela committed milestone 1
Carina committed milestone 2 and milestone 3
Leo committed readme

Summary of the project

The field of the application is Campus Laundry Machines/Laundry Machine Management and covers various aspects of the laundry services in a university campus setting.

The database will primarily track and display the real-time status and availability of laundry machines in campus residences. This allows users to easily check machine availability, plan their laundry sessions, and monitor the progress or completion status of their laundry, providing a more convenient and efficient laundry experience. The database also handles user management, enabling users to register and link their accounts to specific residences. Additionally, it tracks washing cards for machine payments, technician repairs to ensure accountability, and residence managers responsible for machine oversight. This model can be applied in real-life situations like university dorms, where students need easy access to laundry services, and maintenance teams need clear machine and repair tracking systems to ensure smooth operation.

Meeting with TA

Scheduled Wednesday October 30 at 8:00-8:15 pm

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Timeline

Milestone 4 Frontend Part		
Task	Assign to	Expected Date
Finish UI design	Leo	Oct 31
Finish basic UI for Laundry Machines	Angela + Leo	Nov 4
Implement mappingapi	Angela + Leo	Nov 10
Finish UI for account settings	Carina	Nov 13
Add front end security for forms	Angela	Nov 16

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Milestone 4 Backend Part		
Task	Assign to	Expected Date
Ideas for queries	Angela, Leo, Carina	Nov 7
Create all the tables and data in the database	Angela, Leo, Carina	Nov 10
Queries: INSERT Operation	Angela	Nov 18
Queries: DELETE Operation	Angela	Nov 18
Queries: UPDATE Operation	Angela	Nov 18
Queries: Selection	Carina	Nov 22
Queries: Projection	Carina	Nov 22
Queries: Join	Carina	Nov 22
Queries: Aggregation with Group By	Leo	Nov 22
Queries: Aggregation with Having	Leo	Nov 22
Queries: Nested Aggregation with Group By	Leo	Nov 22
Queries: Division	Carina	Nov 22
Queries: Complex SQL queries	Angela	Nov 22

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Milestone 4 Submission Part		
Task	Assign to	Expected Date
Project descriptions	Leo	Nov 24
Updated description with final schema	Carina	Nov 25
Screenshots of query result	Angela	Nov 26
Read me	Leo	Nov 21
Cover Page and Repository Link	Carina	Nov 21
Upload milestone to github repository	Angela	Nov 26

Milestone 5		
Task	Assign to	Expected Date
Demo the query	Angela, Carina, Leo	Dec 2
Answer TA's questions	Angela, Carina, Leo	Dec 2
Security, error handling and notification	Angela, Carina, Leo	Dec 2

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Description of challenges/things left to do

- This will be our first times using Oracle so that may come with its challenges
- For some of us, we have rusty to no experience using Node.js (express.js) to handle api calls to our database
- We are planning to add a map api which may come with its own interesting challenges
- We were also thinking of adding some sort of authentication feature so that should be interesting (OAuth potentially)
- Not all of us have experience with front end technologies including React, Tailwind, and Javascript
- Time management will be a challenge in itself
- Different individuals (technicians, resident managers, and general users) may have different administrative access. It is important to somehow be able to implement that. We are thinking of using cookies alongside Oauth for that, but it may serve as a challenge