University of British Columbia, Vancouver
Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: ____3____

Date: ___2024-10-24_____

Group Number: ____15____

Name	Student Number	CS Alias (Userid)	Preferred E-mail Address
Kenny Niu	37151198	y7r6p	kennyn172@gmail.com
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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

Milestone 3: Project Check In

Brief Project Summary

Our project domain is based on a home management system. The application's features specifically help with a household's item storage, member complaints, and finances.

Timeline

November 8th

- INSERT (Kenny)
    - Tasks
    - Complaints
- UPDATE (Camille)
    - Expense
    - Account
- DELETE (Irene)
    - Tasks
    - Items
- Selection (Kenny)
    - Tasks
    - Expenses/utilities
- Projection (Camille)
    - Account & Expenses – total expenses & budget
    - Items – quantity
- Join (Irene)
- Prepare for complex queries (Entire Group)
- Try testing React for GUI (Entire Group)
    - Ensure that it's been integrated properly in preparation to start the GUI

November 15th

- All queries completed
    - Aggregation with GROUP BY (Kenny)
    - Aggregation with HAVING (Camille)
    - Nested aggregation with GROUP BY (Irene)
    - Division (Irene)
- Start GUI development (Entire Group)
    - Discuss briefly on UX/UI designs
        - Layout of user inputs, success/failure notifications
    - Split up components needed for implementation

November 22nd

- Have all tasks finished & ensure requirements are met
- Complete GUI (Entire Group)
- Incorporate Sanitization & Error Handling requirements (Entire Group)
- Conduct QA process (Entire Group)

November 29th
- Finish up QA process (Entire Group)
- Prepare for Group Demo (Entire Group)
- Milestone 4 Due
- Milestone 6 Due – Individual/Peer Assessment

December 2nd
- Milestone 5 Due – Group Demo

Challenges/Concerns

1. Learning REACT on our own to develop the GUI
- New to the framework
- Use documentation and online resources to figure out styling and implementing components
- Learn how to debug with GUI

2. Potentially using VSCode
- Was recommended not to use VSCode
- However, another TA mentioned that they didn't have much of an issue when they used VSCode
- If needed, contact the IT Department

3. Equal exposure to different queries
- In the timeline, we assigned different queries to specific team members
- With this division of work, all of us won't get a chance to practice specific queries e.g. Person A will do INSERT but won't do UPDATE or DELETE
- To have equal exposure, we can try leveraging PR requests and ask team members to review code before merging changes to the main branch
    - Can practice code review + learn how to do other queries

4. Busy schedules
- November might be busy as projects are wrapping up and possibly second rounds of midterms
- To ensure we're on track, we'll have open communication and updates
- Set up meetings for progress check-ins

5. Reviewing new content early to work on complex queries earlier
- We haven't learned everything to complete milestone 4 yet

- To try to finish our project earlier and put more time into our QA process, we will try to review and learn the complex queries on our own time
- May potentially learn incorrect things but as soon as we cover the lecture material in class, we will revise our queries if needed

6. Possible realization that ER diagram/understanding of system has fundamental issues relating to how we think our program should work

- While we implement the project, we will gain a deeper understanding of the system than when we were just creating the ER diagram, and there may have been questionable design choices from earlier
- Stick with design choices (and make a note for the future), and try to systematically code through it
- Work on things early to discover problems, and discuss with TA if it's worse than expected