

CPSC 304 Project Cover Page

Milestone #: 3

Date: 25 Oct, 2024

Group Number: 97

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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

Project Overview:

Our project focuses on Renovation Project Management, designed to help owners, contractors, and supervisors coordinate tasks for both residential and commercial renovations. The system handles key aspects like project details, stakeholder roles, resource allocation, and budget tracking. It also includes a review system where owners can provide feedback upon project completion, enhancing accountability and service improvement.

Detailed Timeline

Teammate - Jagathi Moturi

1. **SQL Queries (Insert, Update, Aggregation with GROUP BY)**
 - **Insert:** Complete by **Nov 4**
 - **Update:** Complete by **Nov 6**
 - **Aggregation with GROUP BY:** Complete by **Nov 8**
2. **GUI Development (Windows, Buttons)**
 - **Initial Design of Windows and Buttons:** Draft by **Nov 12**
 - **Final Review of Windows and Buttons:** Complete by **Nov 14**

Teammate - Vamsi Nadella

1. **SQL Queries (Delete, Selection, Aggregation with HAVING, Division)**
 - **Delete:** Complete by **Nov 4**
 - **Selection:** Complete by **Nov 6**
 - **Aggregation with HAVING:** Complete by **Nov 8**
 - **Division:** Complete by **Nov 8**
2. **GUI Development (Windows, Buttons)**
 - **Initial Design of Windows and Buttons:** Draft by **Nov 12**
 - **Final Review of Windows and Buttons:** Complete by **Nov 14**

Teammate - Hans Chen

1. **SQL Queries (Projection, Join, Nested Aggregation with GROUP BY)**
 - **Projection:** Complete by **Nov 4**
 - **Join:** Complete by **Nov 6**

- **Nested Aggregation with GROUP BY:** Complete by **Nov 8**
- 2. **GUI Development (Backend & Frontend Integration, User Error or Success Notifications)**
 - **Backend and Frontend Integration:** Draft by **Nov 16**
 - **User Success/Error Notifications:** Complete by **Nov 18**
 - **Final Review of Entire GUI:** Complete by **Nov 18**

Team-Wide Tasks

1. **GUI Development (Windows, Buttons) - Jagathi Moturi and Vamsi Nadella**
 - **Initial Design of Windows and Buttons:** Draft by **Nov 12**
 - **Final Review of Windows and Buttons:** Complete by **Nov 14**
2. **Sanitization (Security Practices):** Ensure input sanitization for SQL queries.
 - **Complete by Nov 22**
3. **Database Management (Drop, Recreate, Reload Tables):**
 - **Submit final .sql file:** Ensure the .sql file can drop, recreate, and reload tables without errors.
 - **Complete by Nov 24**

Challenges/Things Left to Do:

- **User Error/Success Notifications:** Implementing appropriate notifications for both user errors (e.g., invalid input) and success (e.g., successful functional) is important. The challenge lies in ensuring that all cases receive notifications, and are clear and user-friendly for non-technical users.
- **Database Integrity:** Focus will be on ensuring queries work seamlessly with the GUI and handle user inputs appropriately.
- **Sanitization:** A potential challenge is ensuring robust input sanitization for preventing SQL injection and other vulnerabilities.
- **Drop, Recreate, and Reload Tables:** Using the SQL script that can drop, recreate, and reload tables without any issues is important. This will require ensuring that all dependencies and constraints are handled correctly, which might pose challenges in maintaining the data integrity across multiple iterations.