

CPSC 304 Project Cover Page

Milestone #: 3

Date: 2024/07/24

Group Number: 33

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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 Summary

Our project is a food delivering service that manages the process of a customer ordering food from a restaurant and having the food delivered to them. Customers are able to write reviews for both the restaurant and the driver responsible for delivering the food.

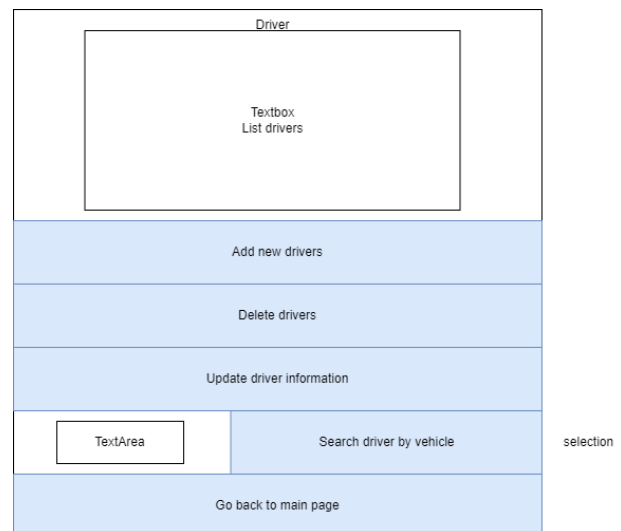
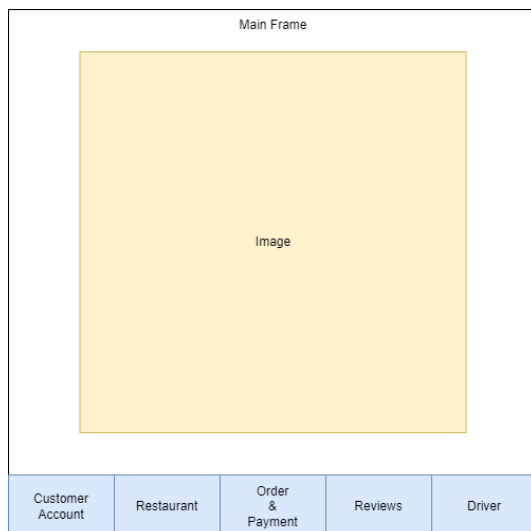
Frontend GUI Design

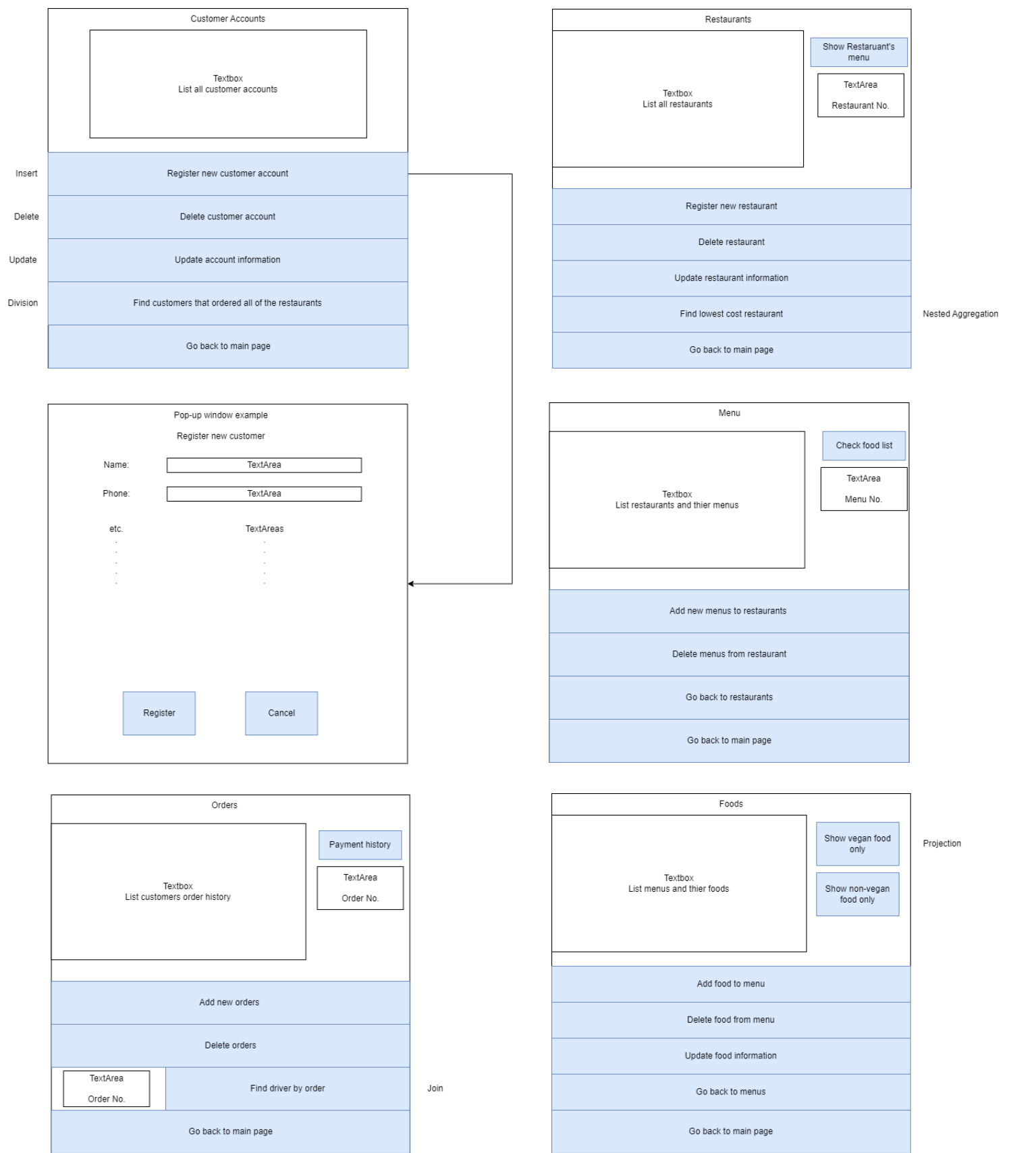
1. Application Functions:

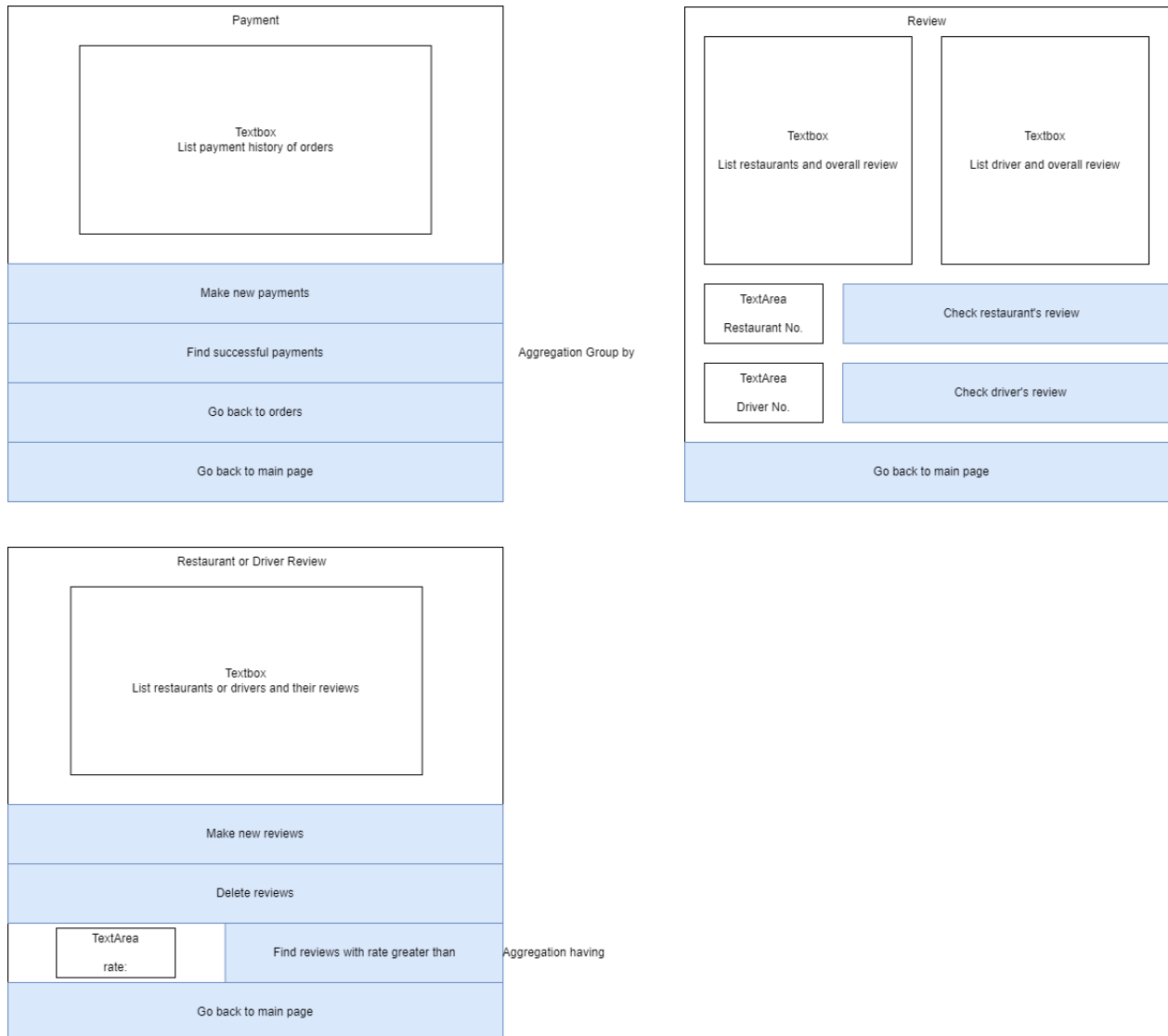
- Create/cancel orders (like a cart), payments, reviews
- Search restaurants, browse menus, other reviews
- View order history, current order status, account info
- Apply for a membership

2. Layout Design:

- Frames (text boxes, buttons are included in design image)
 - Main frame
 - Customer frame
 - Restaurants frame → Menu frame → Foods frame
 - Orders frame → Payment frame
 - Driver frame
 - Review frame → Restaurant review frame
→ Driver review frame
 - Pop-up windows
- Design Images (text area: white box; button area: blue box):







Timeline

1. General Assignment:

- Main Frontend: Kaicheng
- Main Backend (+ Database): Jason, Kevin
- Demo: Kaicheng, Kevin, Jason

2. Implementation (Front-end / Back-end / Database: Java Swing / Java / Oracle):

- Frontend
 - Set up frontend, User Interface (By July 29)
 - Logic and User Interaction (By July 31)
 - Show queries on front-end (By August 1)
 - Front-end testing, debugging (By August 2)
- Backend
 - Set up backend, Create Classes (By July 28)
 - Connect with DB (By July 29)
 - Database (SQL DDL) (By July 31)
 - Controller (By August 1)
 - Back-end testing, debugging (By August 2)
- Final Testing (By August 3)

3. Demo:

- Prepare the slides and presentation
- Ensure that given data is sufficient to demonstrate, and security sanitization
- Ensure the query operations for demo work smoothly
 - INSERT, DELETE
 - Selection, projection, join, division
 - Aggregation operation with GROUP BY, with HAVING
 - Nested aggregation with GROUP BY
 - Basic error handling (user notification)

Challenges

We are unfamiliar with the implementation of database design and security sanitization, and we hope to have some guidance for these two parts and some advice for the project setup.