

National University of Computer & Emerging Sciences
Karachi Campus



SOFTWARE ENGINEERING
PROJECT REPORT

MUHAMMAD AALYAN 21k-3432

Maarij Waseem 21K-4547

Huzaiifa 21K-4948

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Project Requirements:

Functional Requirements

The food ordering and delivery management system has following components that has their respective functional requirements.

The Ordering System

Users of the web-application must be able to do the following tasks:

1. Create an account.
2. Login to their account.
3. Can view the restaurant's menu.
4. Select an item from the menu.
5. Add an item to their cart.
6. View their current order's cart.
7. Enter delivery and payment details.
8. Track their order.
9. Able to place order for future date.
10. Buy premium for discounts.

Restaurant Management System

1. New restaurant must be able to register themselves with the application.
2. Add their menu to the restaurant's menu.
3. Can offer discounts.
4. Deliver order.

Order Management System

1. Display order in the screen.
2. Can retrieve order for users from database.
3. Generate confirmation for the order.
4. Keep track of customer order.
5. Assign a rider to deliver a particular order to customer.

Non-functional Requirements

Performance Requirements

1. Performance wise, our project is built to be very responsive and fast. The transitions between the interfaces take no time.
2. Capacity wise, our system is very storage friendly, hardly requires some Mbs of data.
3. Safety wise, the data of users, interacting with our system stays safe and can only be accessed by the system owner.

4. The software is reliable in a sense that it fulfills all the needs that it is promised to fulfill. It was tested for any sort of bugs/ issues and was fixed by the developers eventually.

Safety Requirements

1. We took extra care that our system must not cause any damage on the machine on which the user is running our system.
2. The only thing that the user should take care of is the entry of dummy (fake) results in the database. Dummy data must be deleted from the database.

Security Requirements

1. External users such as someone out of the organization must not be given access to the system's Admin panel. Login ensures this.
2. Only the Stakeholders should have access to the system.
3. The data of the user stays safe and untouchable. So, privacy is maintained.

Tools and Technologies:

Operating System: Windows 10

Database: MySQL

Webserver: XAMPP

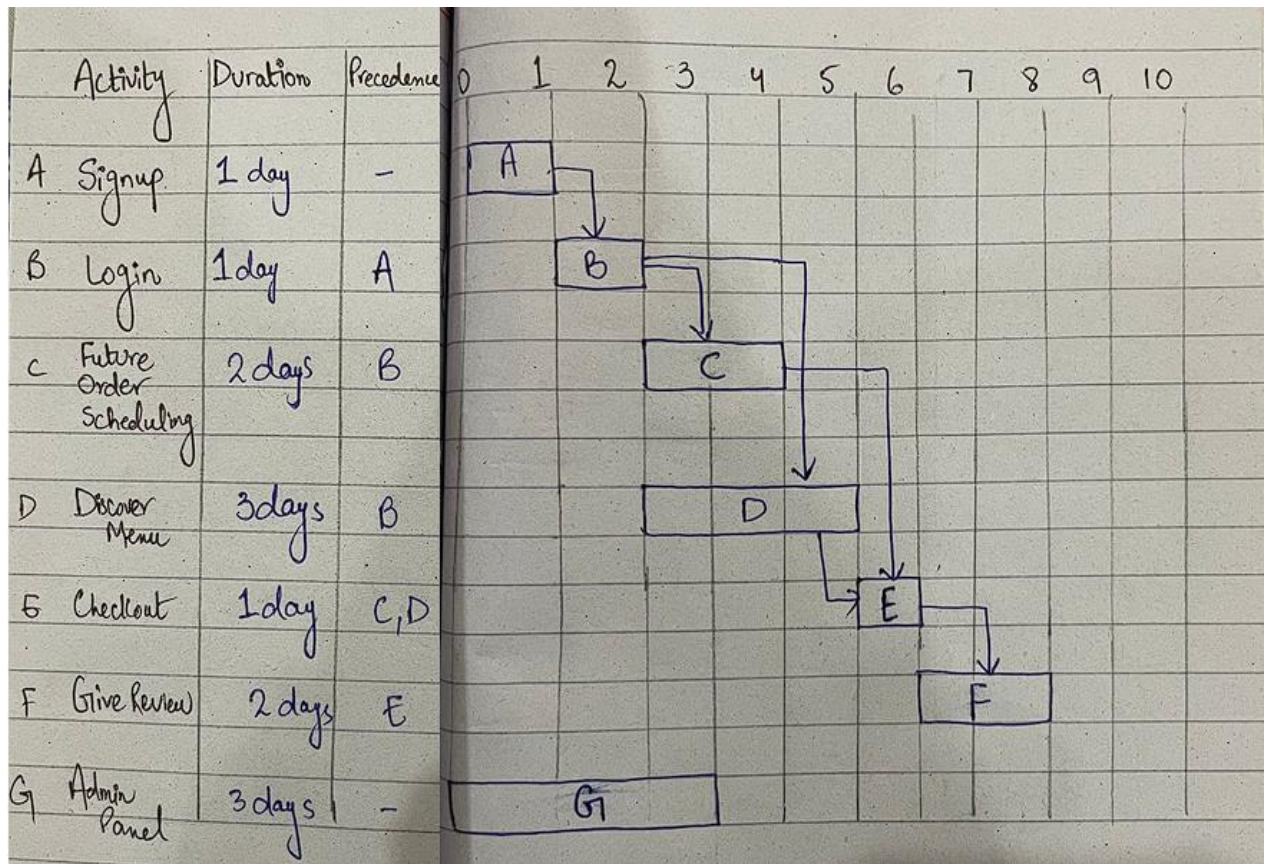
Web Technologies: HTML/ CSS/ JS/ FLASK

Ide and tools: Visual Studio Code

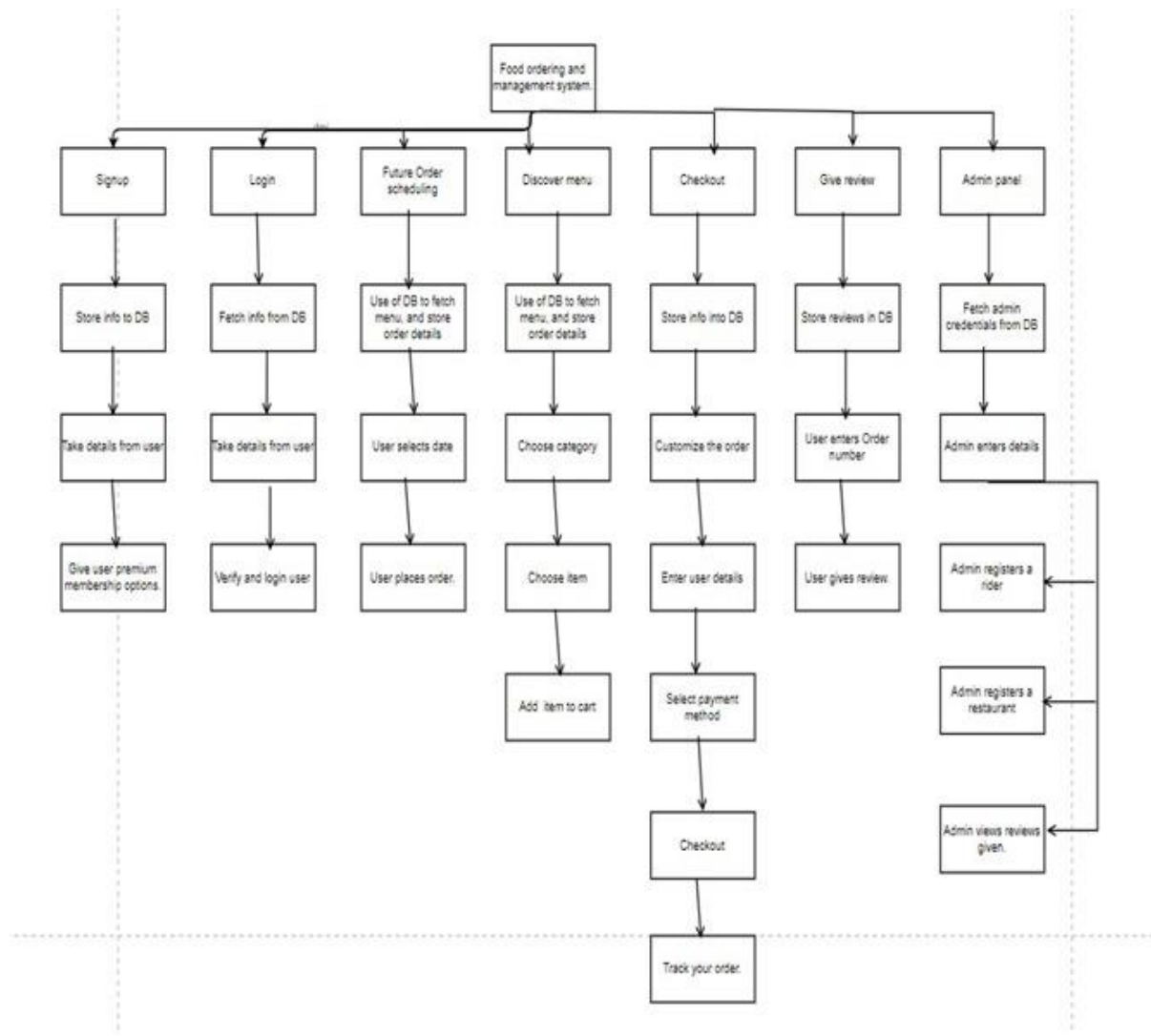
Task Distribution:

- Frontend using HTML, CSS and Bootstrap is developed by Maarij waseem (21k-4547) , Aalyan(21K-3432)..
- Backend using Flask and MySQL database is developed by Aalyan (21K-3432) and huzaifa (21K-4948).

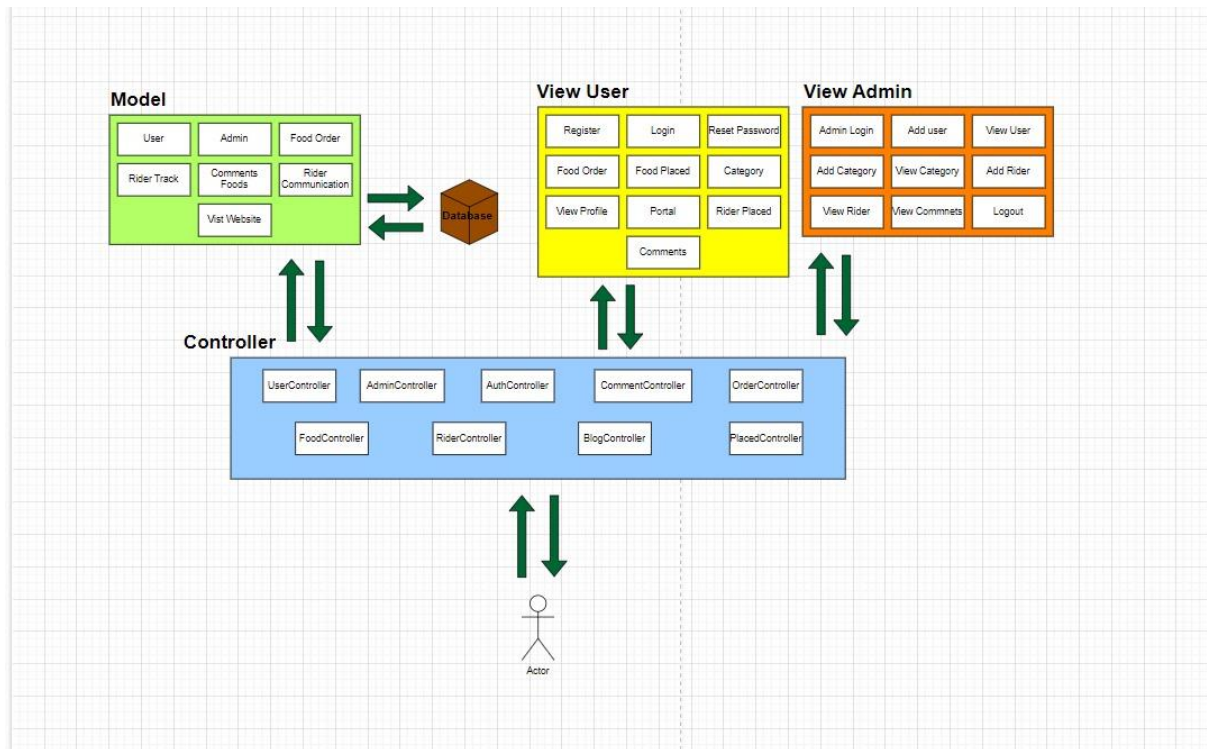
Project Gantt Chart:



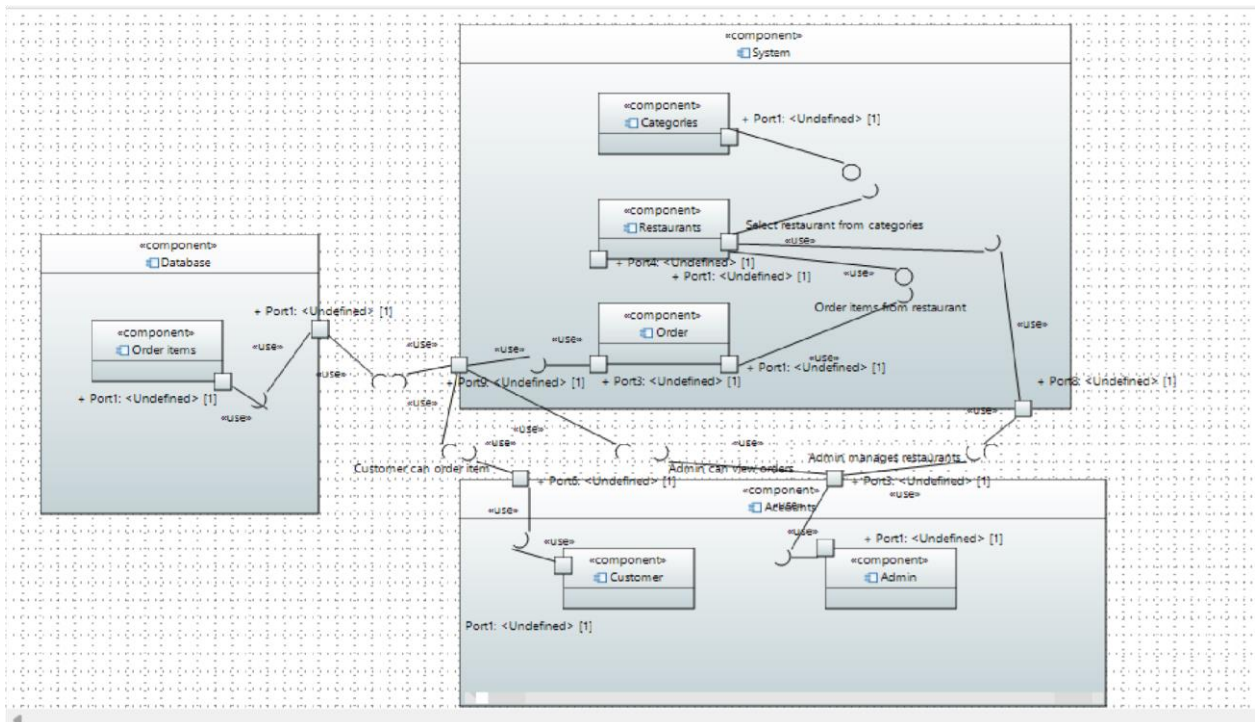
Work breakdown structure :



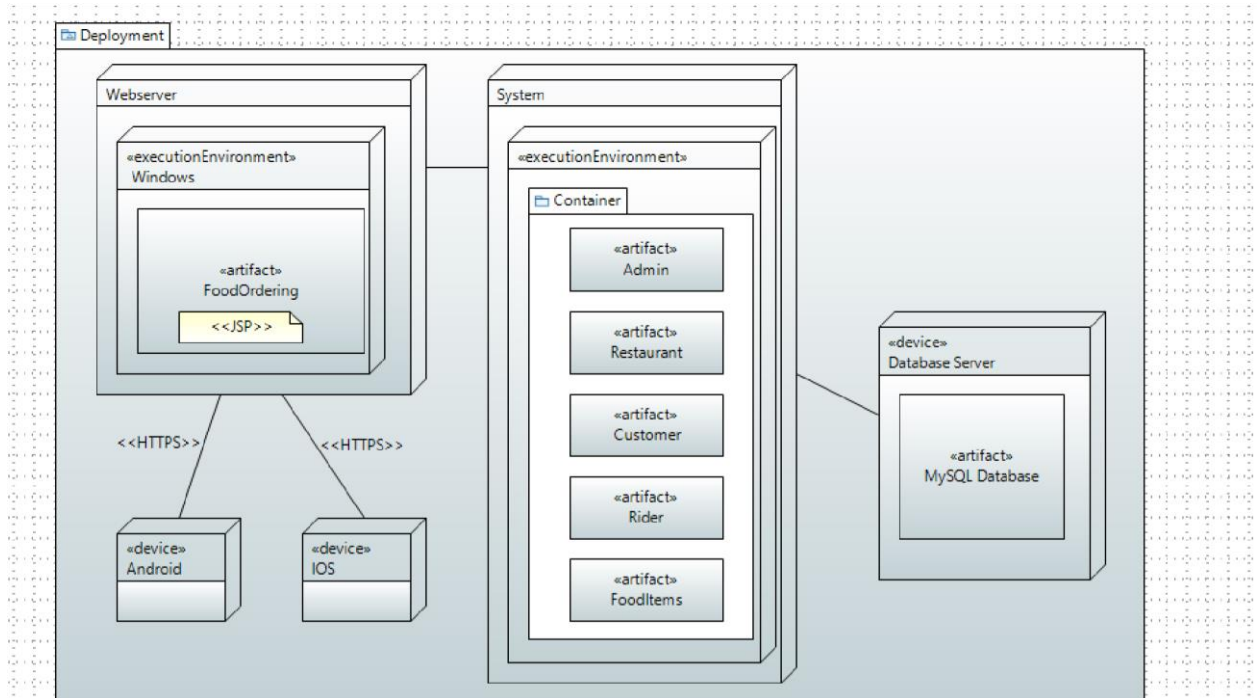
Architecture diagram :



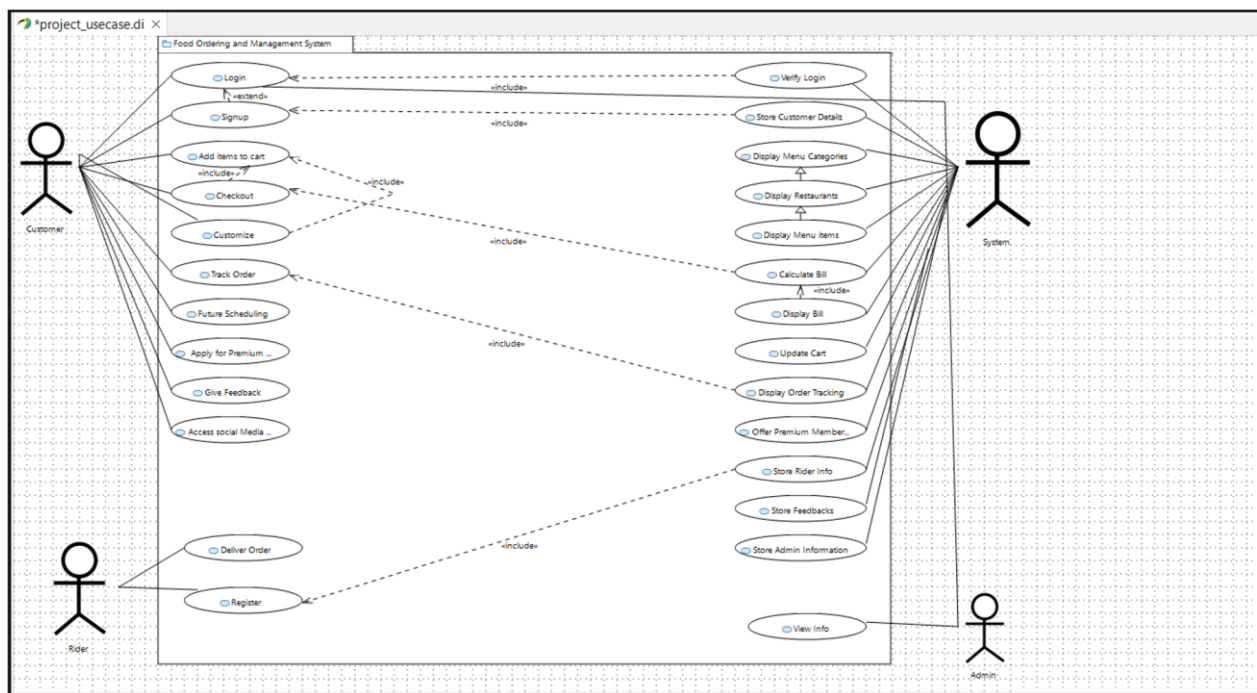
➔COMPONENT DIAGRAM



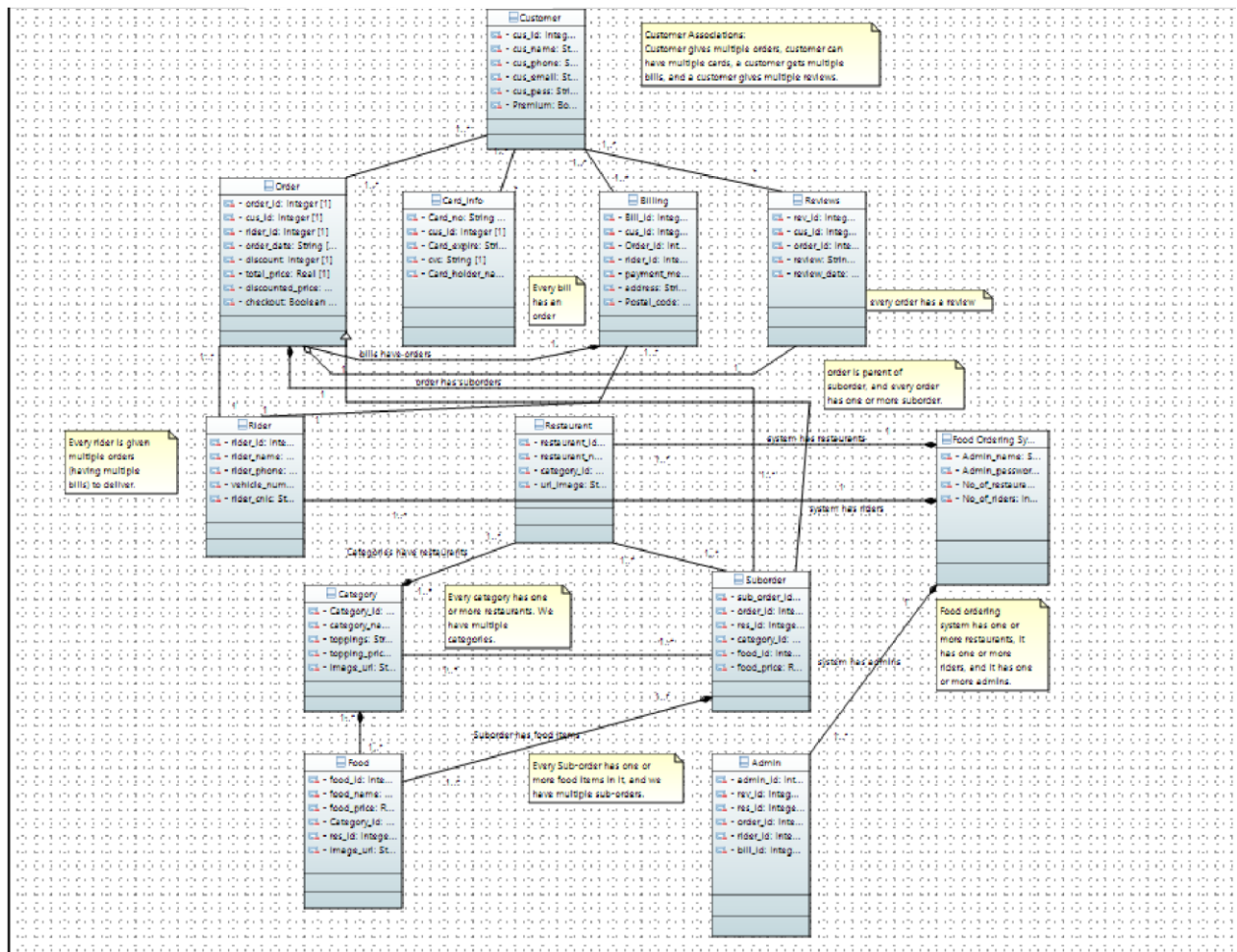
→ DEPLOYMENT DIAGRAM



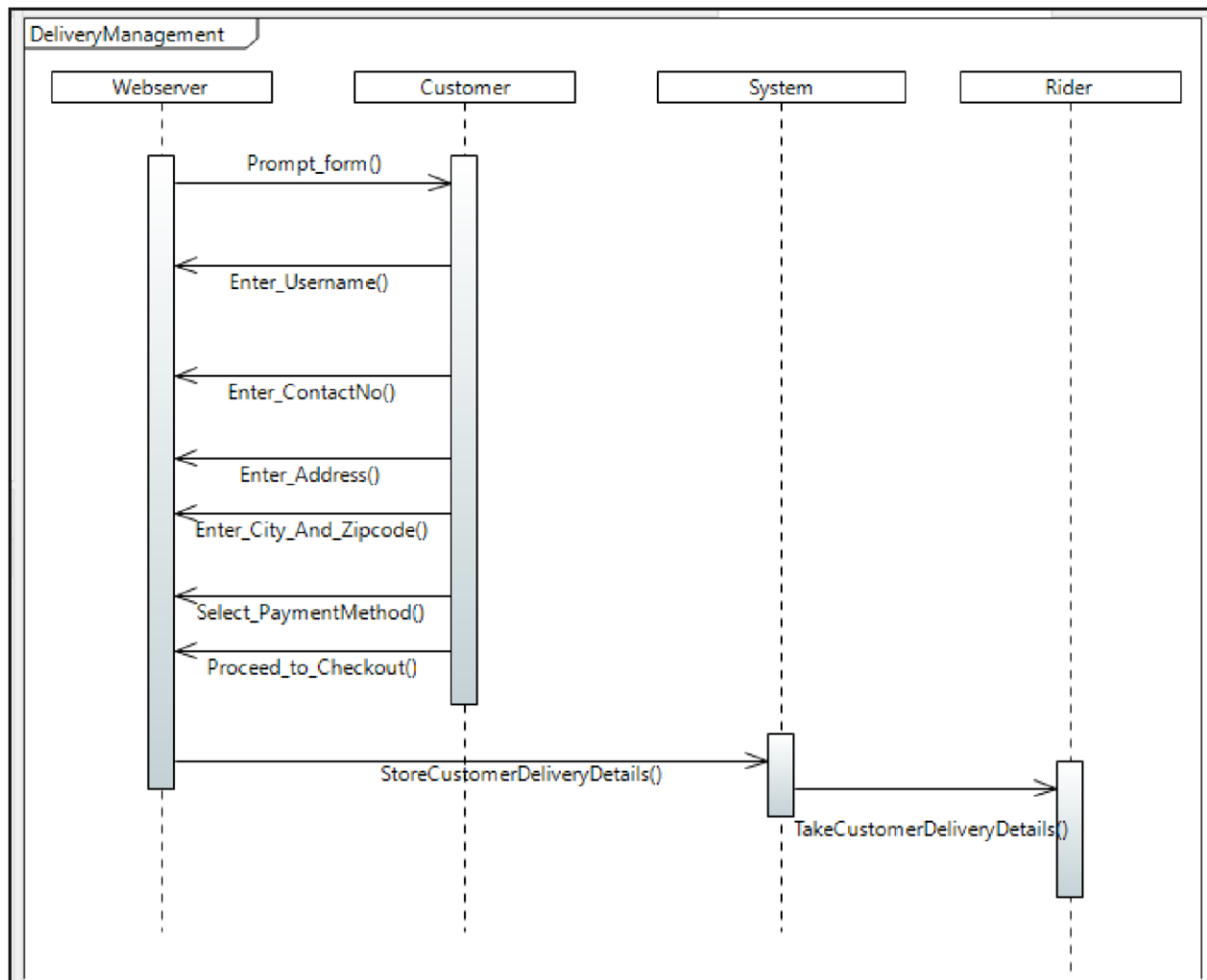
→ USE CASE DIAGRAM

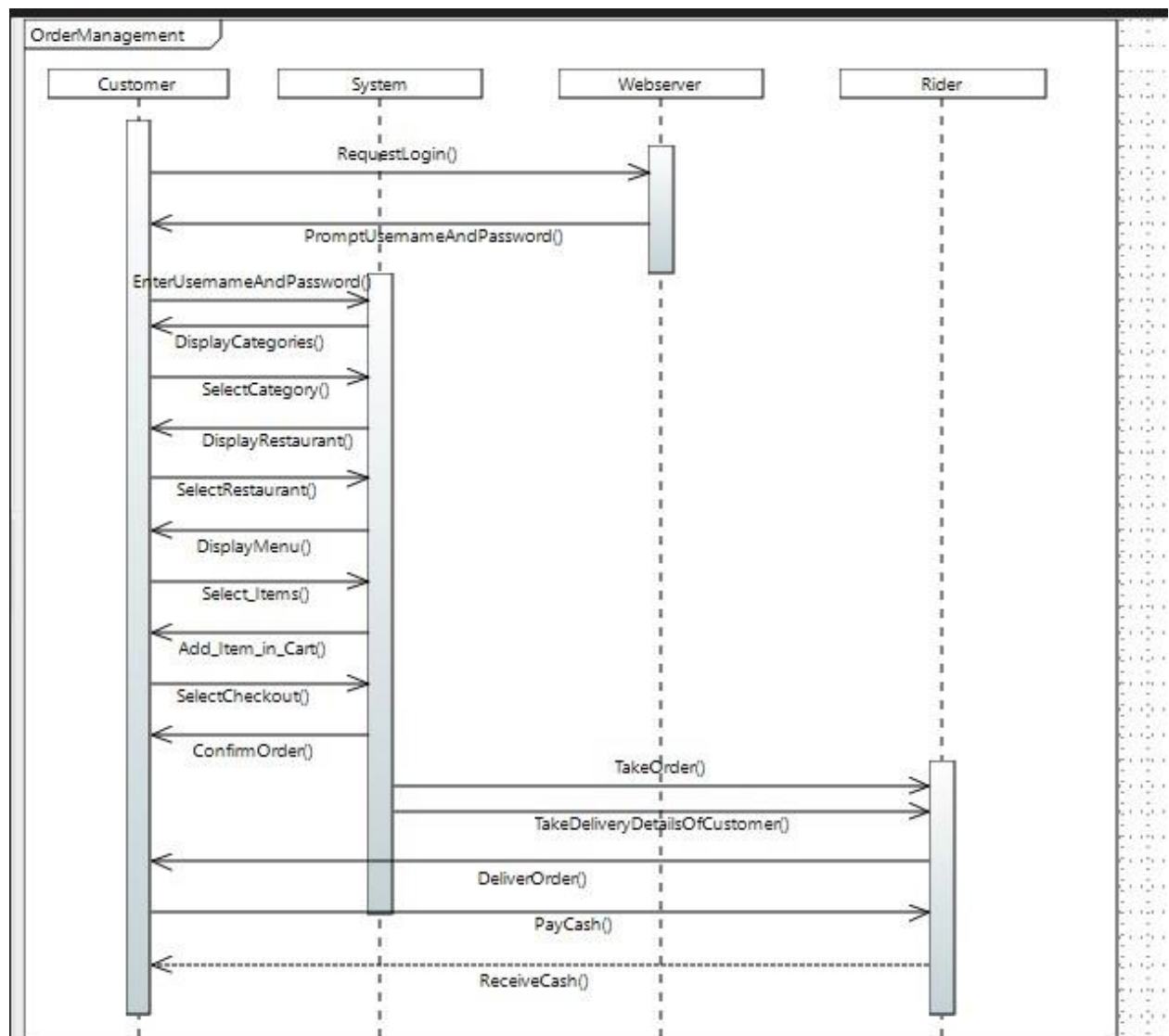


→ DOMAIN MODEL DIAGRAM

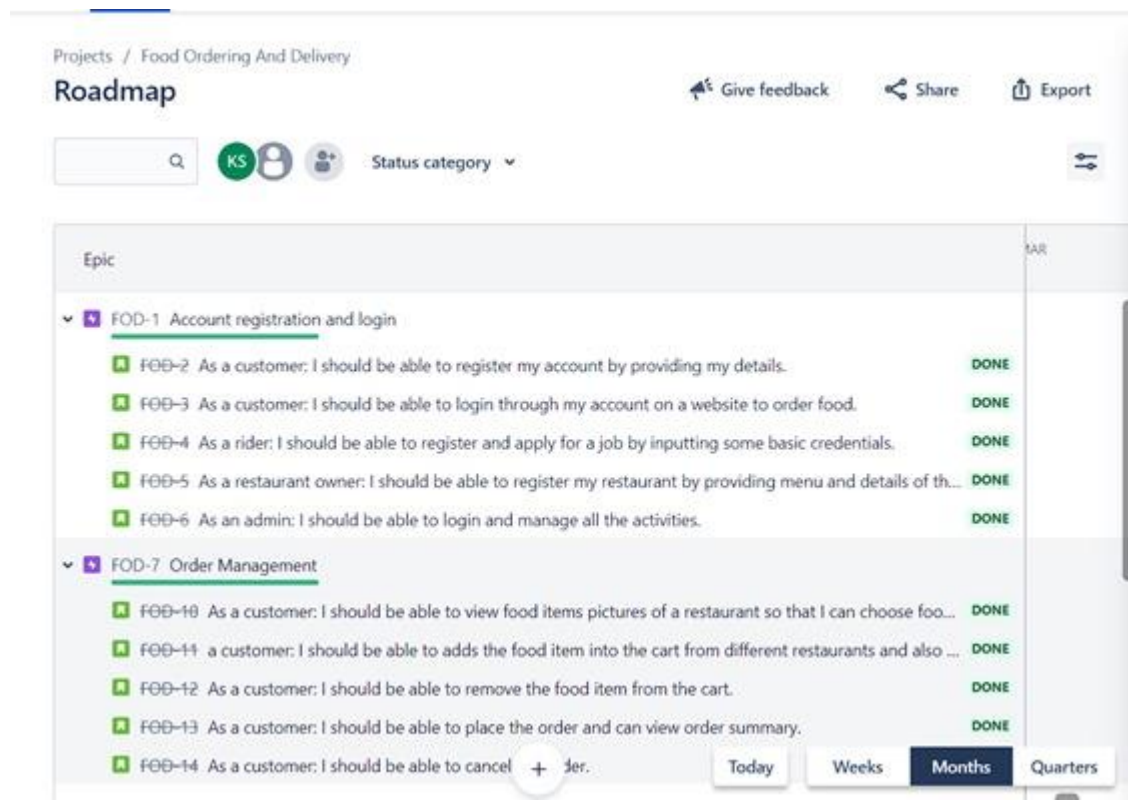
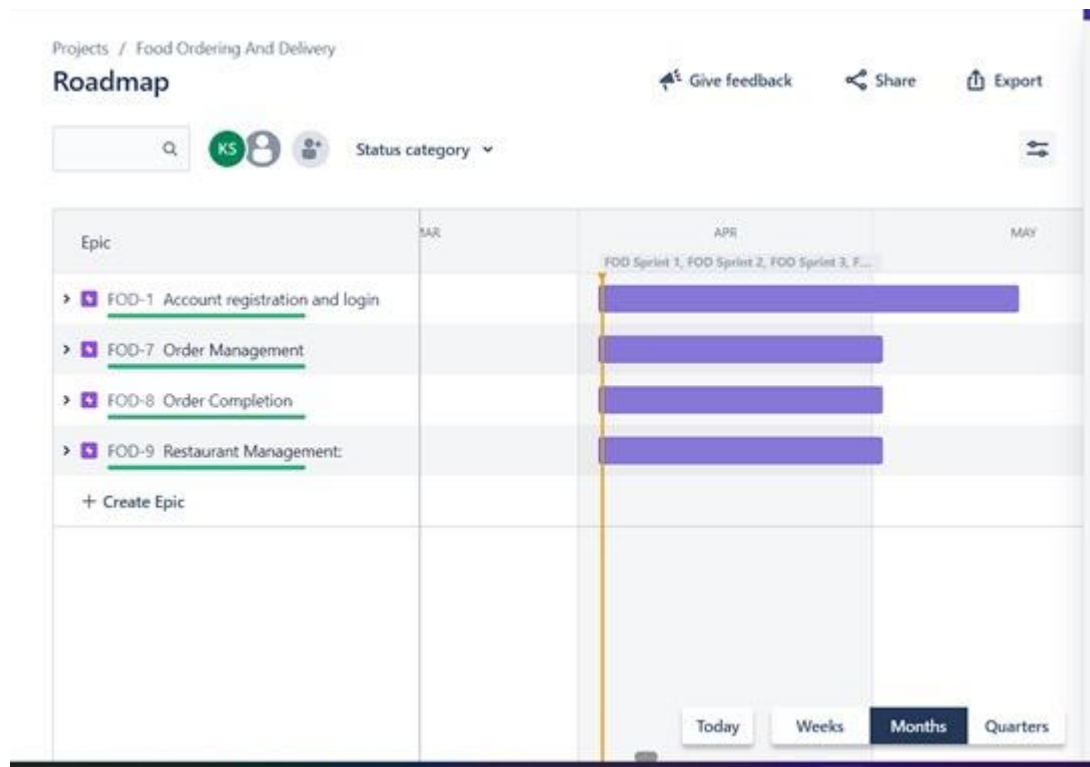


➔ SEQUENCE DIAGRAMS





Screen shot of Project management tool (jira):



Roadmap

Give feedback

Share

Export

Q

KS



Status category ▾



Epic

IAR

FOD-14 As a customer: I should be able to cancel the order.

DONE

▼ FOD-8 Order Completion

FOD-15 System should mark the order is complete once the order of the customer is cooked and ready to d... DONE

FOD-17 As a customer: I should be able to look at the order's status by inputting the order number and also... DONE

FOD-16 As a customer: I should be able to select payment option to pay by card or pay cash on delivery. DONE

FOD-18 As a rider: I should be able to pick the food and deliver it at the customer address. DONE

FOD-19 As a customer: I should be able to provide feedback of the food. DONE

▼ FOD-9 Restaurant Management:

FOD-20 As an admin: I should be able to add, delete and update the information about different restaurants. DONE

FOD-21 As an admin: I should be able to view reviews and feedback of the customers. DONE

FOD-22 As an admin: I should be able to view sales of the particular restaurant. DONE

+ Create Epic

Today

Weeks

Months

Quarters