Welcome

Master FOOD DELIVERY

Southeast University

GROUP INTRODUCTION

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SOUTHEAST UNIVERSITY

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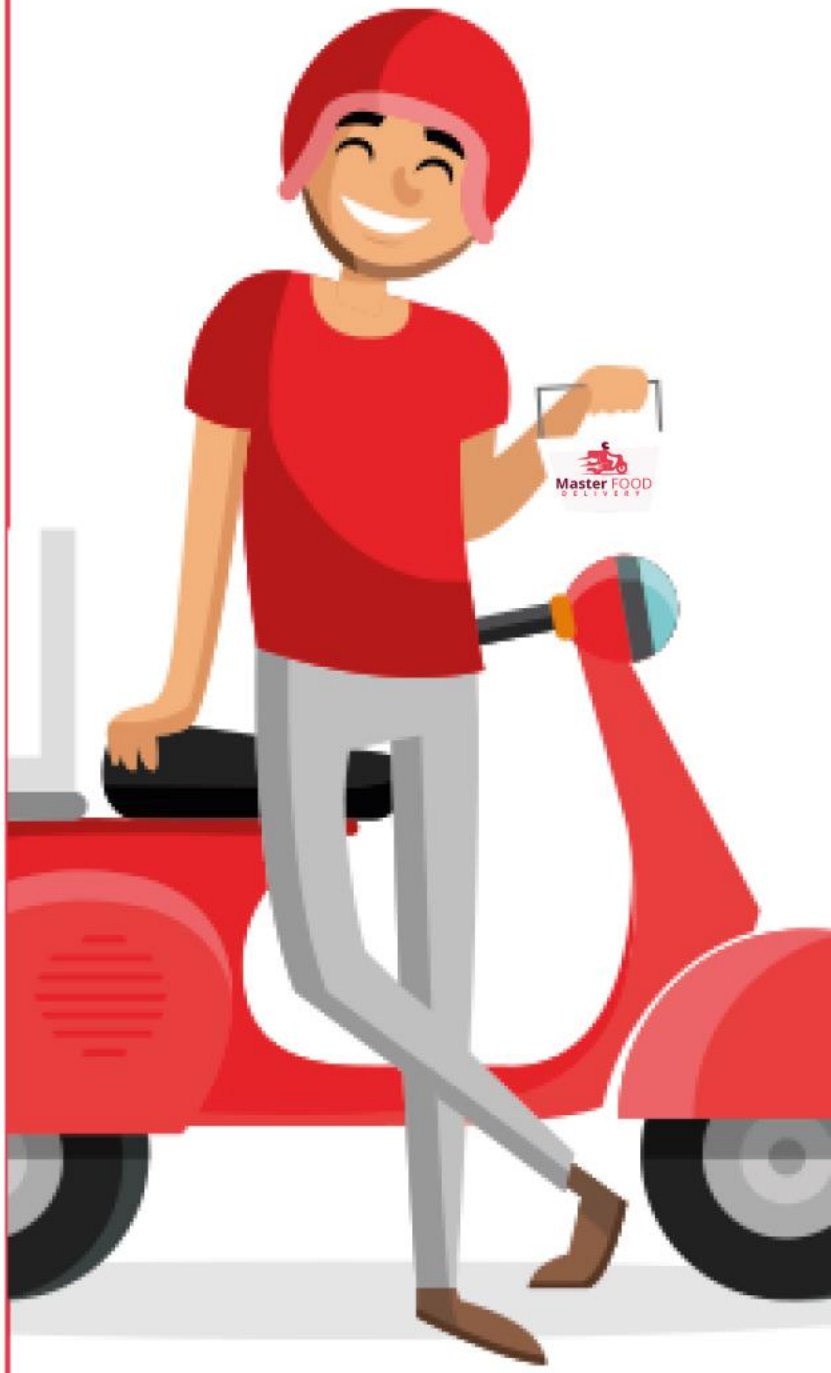
Introduction

Online Food Delivery Management System that we are proposing here, For both the customer and the restaurant, this Project simplifies the ordering procedure. Online based service to order food from a variety of restaurants. Enjoy differently cuisines and flavors delivered to your doorstep by our delivery hero. This System presents an interactive and up-to-date menu with all available options in an easy-to-use manner. Customers can choose one or more items to place an order which will land in the Cart. Customers can view all the order details in the Cart before checking out.



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Objectives

Primary Objective:

- Through improved application of technology in daily operations, enhance efficiency and improve services given to customers.
- To be able to stand out from competitors in the food service industry

Secondary Objectives:

- To enable customers to order custom meals that aren't in the menu.
- To enable customers to have a visual confirmation that the order was placed correctly.
- To enable customers to know food ingredients before ordering to reduce restaurant's food wastage.
- To ensure correct placement of orders through visual confirmation.
- Improve efficiency of restaurant's staff.
- Eliminate paper work and increase level of accuracy.
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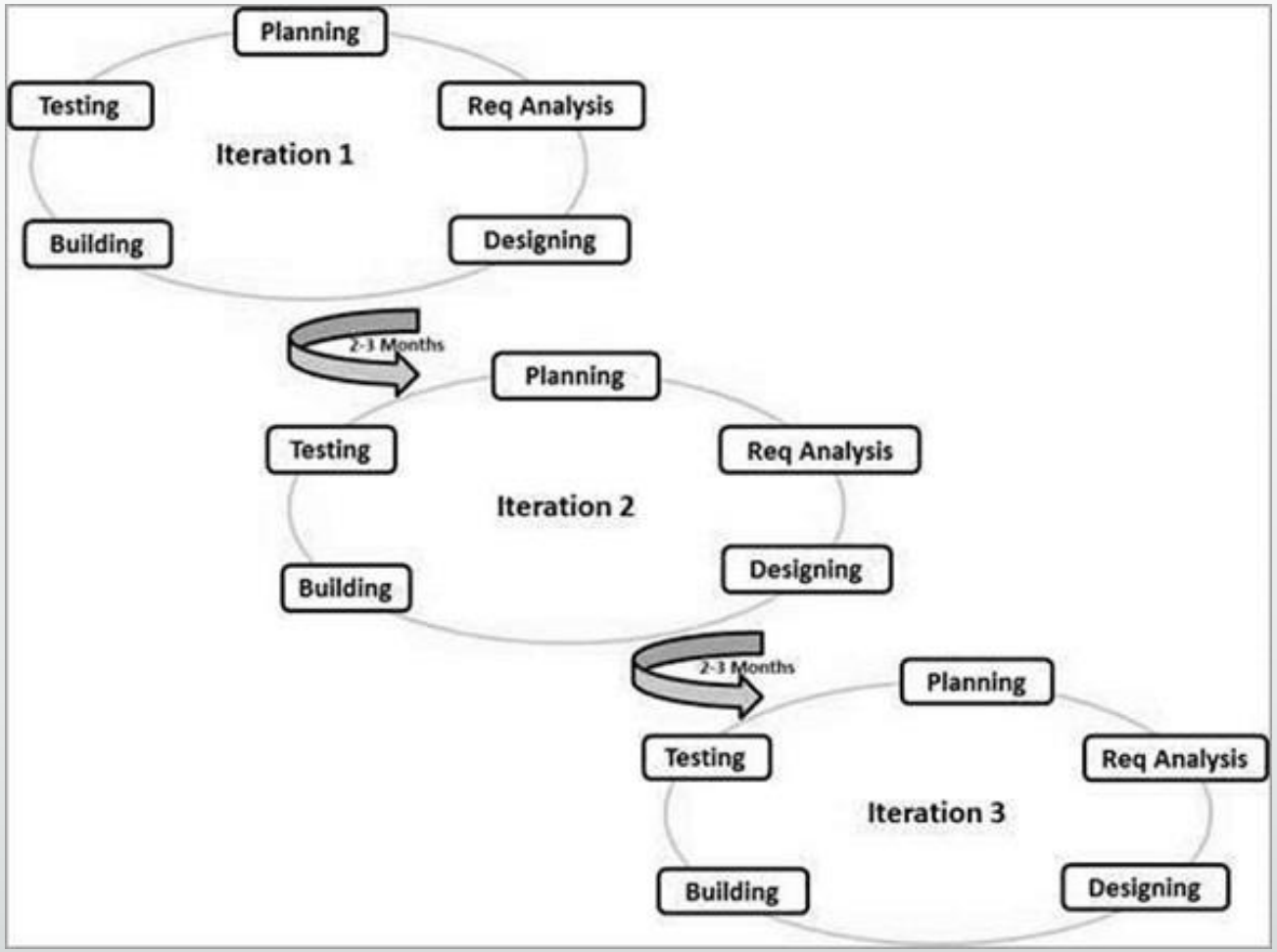
Process Model

Agile

Agile model believes that every project needs to be handled differently and the existing methods need to be tailored to best suit the project requirements. In Agile, the tasks are divided to time boxes (small time frames) to deliver specific features for a release.
Iterative approach is taken and working software build is delivered after each iteration. Each build is incremental in terms of features; the final build holds all the features required by the customer.
The Agile thought process had started early in the software development and started becoming popular with time due to its flexibility and adaptability.

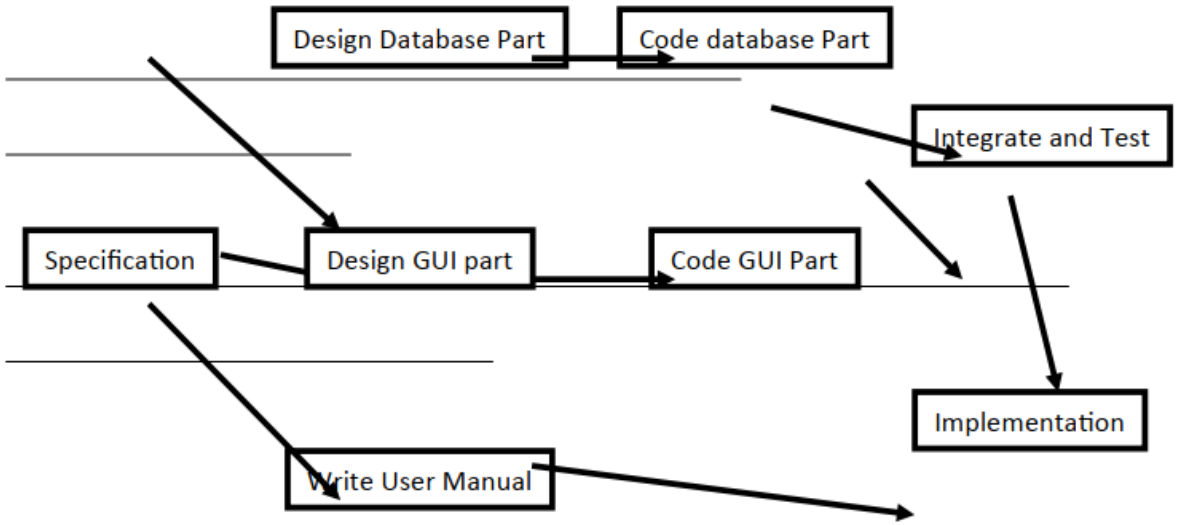
Following are the Agile Manifesto principles −

- **Individuals and interactions** − In Agile development, self-organization and motivation are important, as are interactions like co-location and pair programming.
- **Working software** − Demo working software is considered the best means of communication with the customers to understand their requirements, instead of just depending on documentation.
- **Customer collaboration** − As the requirements cannot be gathered completely in the beginning of the project due to various factors, continuous customer interaction is very important to get proper product requirements.
- **Responding to change** − Agile Development is focused on quick responses to change and continuous development.



Pert / CPM

PERT chart is organized for events, activities or tasks. It is a scheduling device that shows graphically the order of the tasks to be performed. It enables the calculation of the critical path. The time and cost associated along a path is calculated and the path requires the greatest amount of elapsed time in critical path.



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Gannt Chart/time Chart

It is also known as Bar chart is used exclusively for scheduling purpose. It is a project controlling technique. It is used for scheduling. Budgeting and resourcing planning. A Gantt is a bar chart with each bar representing activity. The bars are drawn against a time line. The length of time planned for the activity. The Gantt chart in the figure shows the Gray parts is slack time that is the latest by which a task has been finished

	Description	Duration(Days)	27th Wed	28th thurs	31th sun	1st mon	2nd tue	3rd wed	4th thurs	8th sun	9th mon	10th(wed
User Interview	Current app test, SEQ survey	1										
Market Research	Background, Business Analysis	2										
Competitive Analysis	Competitor feature comparision	2										
Affinity Mapping	Summarise user feedback	1										
Persona/Tasking	Defining user groups, CIM, Feature Ideation	3										
Sketching/Wireframing	Physical Sketches	2										
ProtoTyping		3										
Usability Test	1st prototype test, SUS, SEQ	1										
Iteration		3										
Usability Test Report		4										
Usability Test	2nd prototype test, SUS SEQ	1										
Iteration		1										
Presentation	Presentation practice	1										
Slides	Project deck preparation	5										
LEGEND:	SUS: System usability Scale											
	SEQ: Single Ease Question											
	CIM: Customer Journey Mapping											

Resource requirements:

- **For Restaurant Listing:** Github API, FourSquare API.
- **For Payment:** Square API, Braintree, Stripe, PayPal.
- **To Find user Location:** Core Location Framework, Google Places API.
- **To Find Directions:** Google Maps, MapKit.
- **For Cloud:** AWS, Azure.
- **For Registration:** Facebook SDK Login.
- **For Storage:** Amazon Cloud Storage.
- **For Analytics:** Google Analytics.

Estimation

Costs

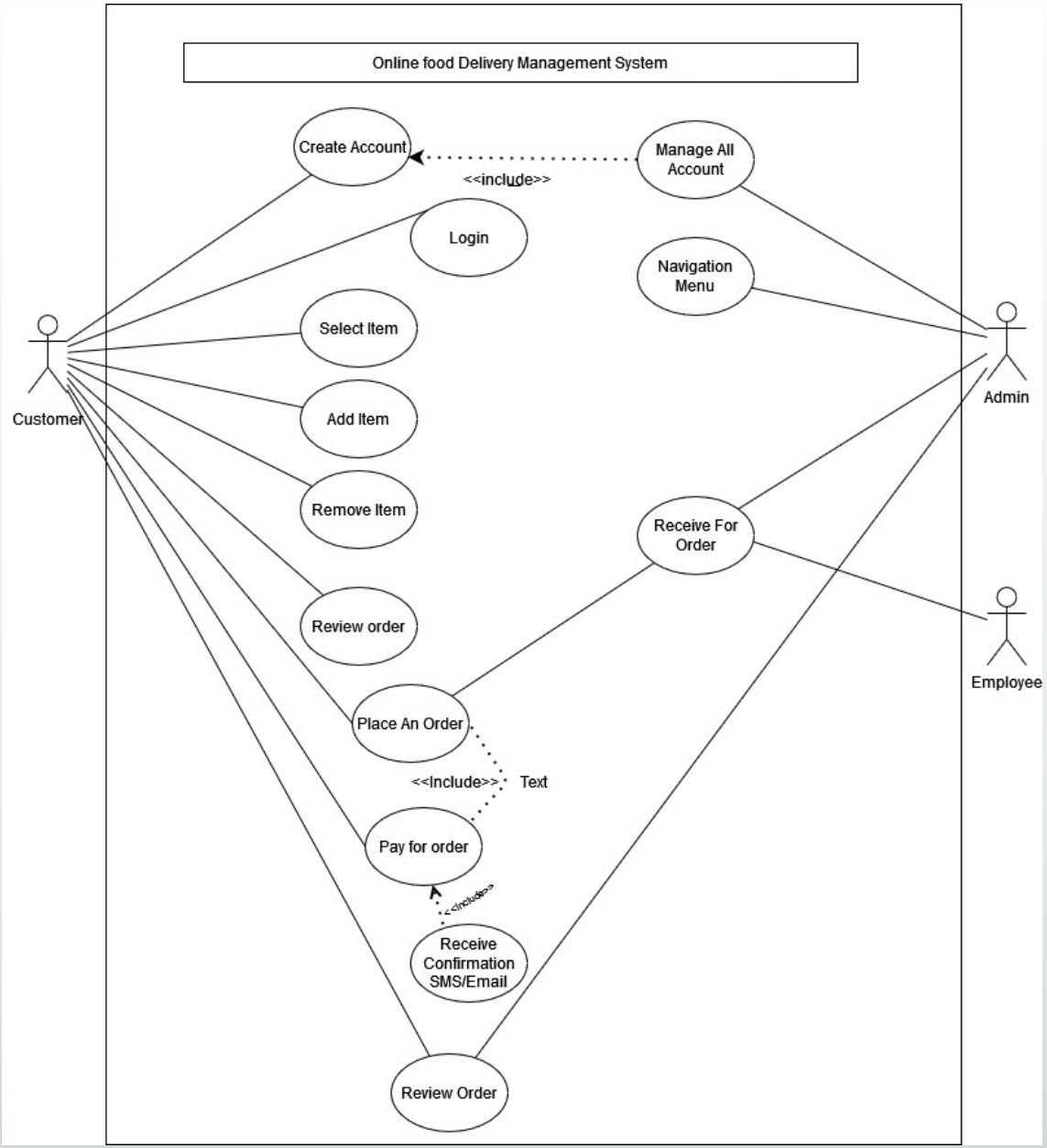
Category	Details	Cost in First Year
Lease.	750 square feet available next door at $18 per square foot	$13,500
Leasehold improvements.	Knock out walls and reconfigure office space	$15,000
Hire two more designers.	Salary, including benefits	$75,000
	Recruitment costs	$11,250
	Orientation and training	$3,000
Two additional workstations.	Furniture and hardware	$6,000
	Software licenses	$1,000
Construction downtime.	Two weeks at approximately $7,500 revenue per week	$15,000

Category	Details	Cost in First Year
Total		**$139,750**

Use Case Diagram

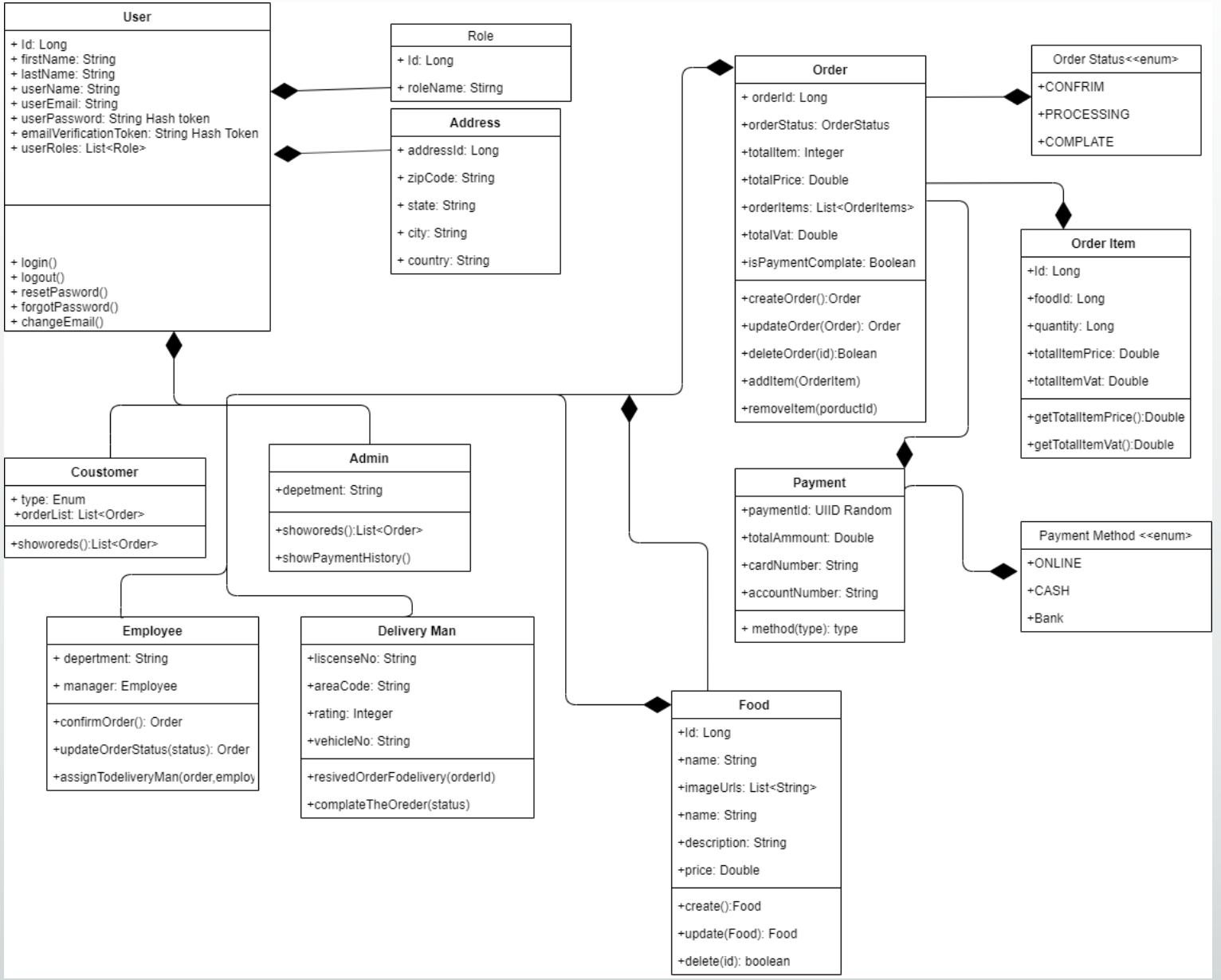
Online Food delivery management system:

use case diagram describing the actors and the activities involved in the proposed solution. The use case begins once the user starts the application. The system will display a login screen. The users enter their credentials by input their email and password. The system will verify the information and lead to the ordering platform. The customer places the food /drink order and the system automatically calculates the total amount. The customer chooses whether they want to eat from the restaurant or takeaway the meal.



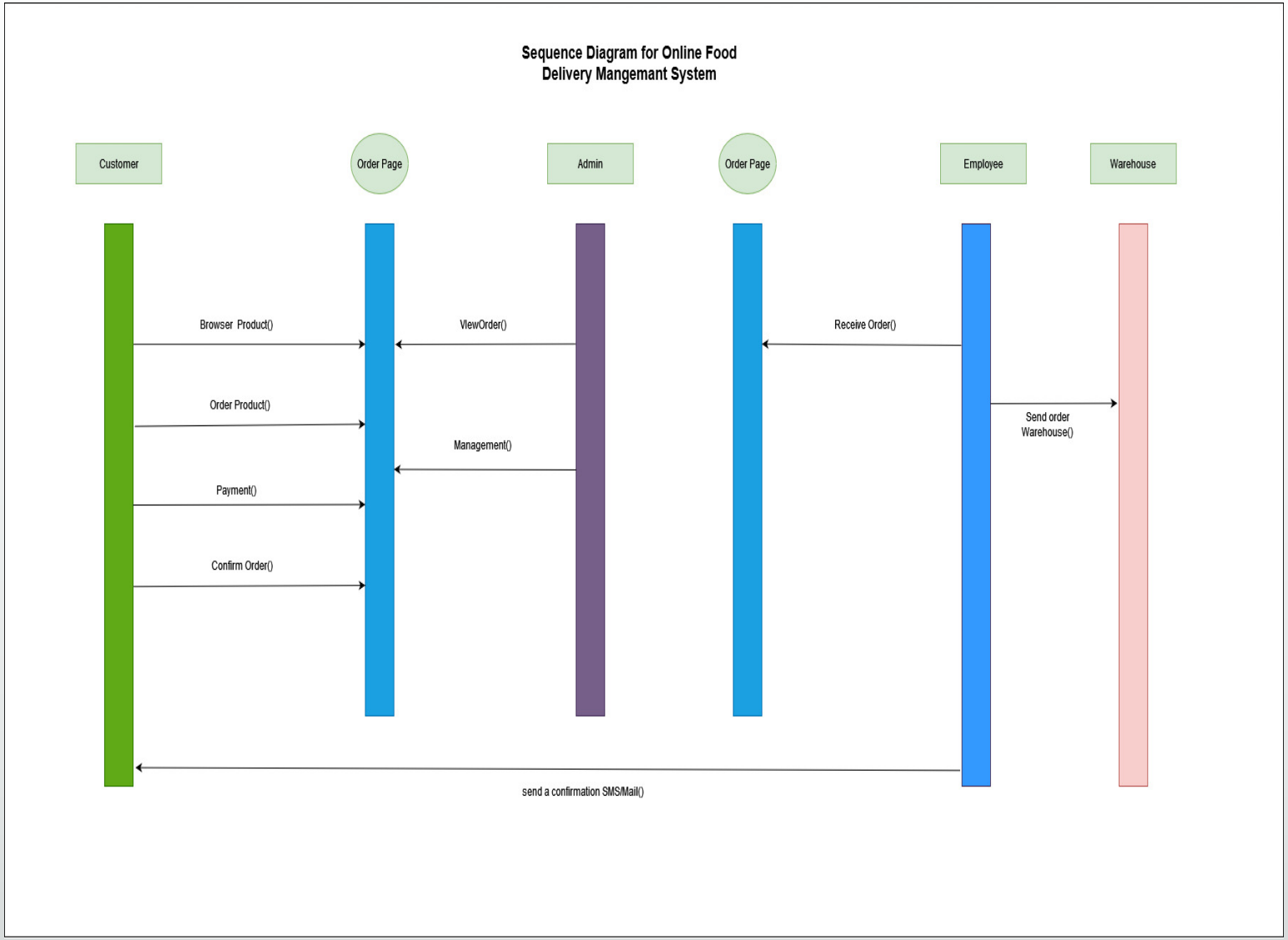
Customer Use case diagram:

Class diagram

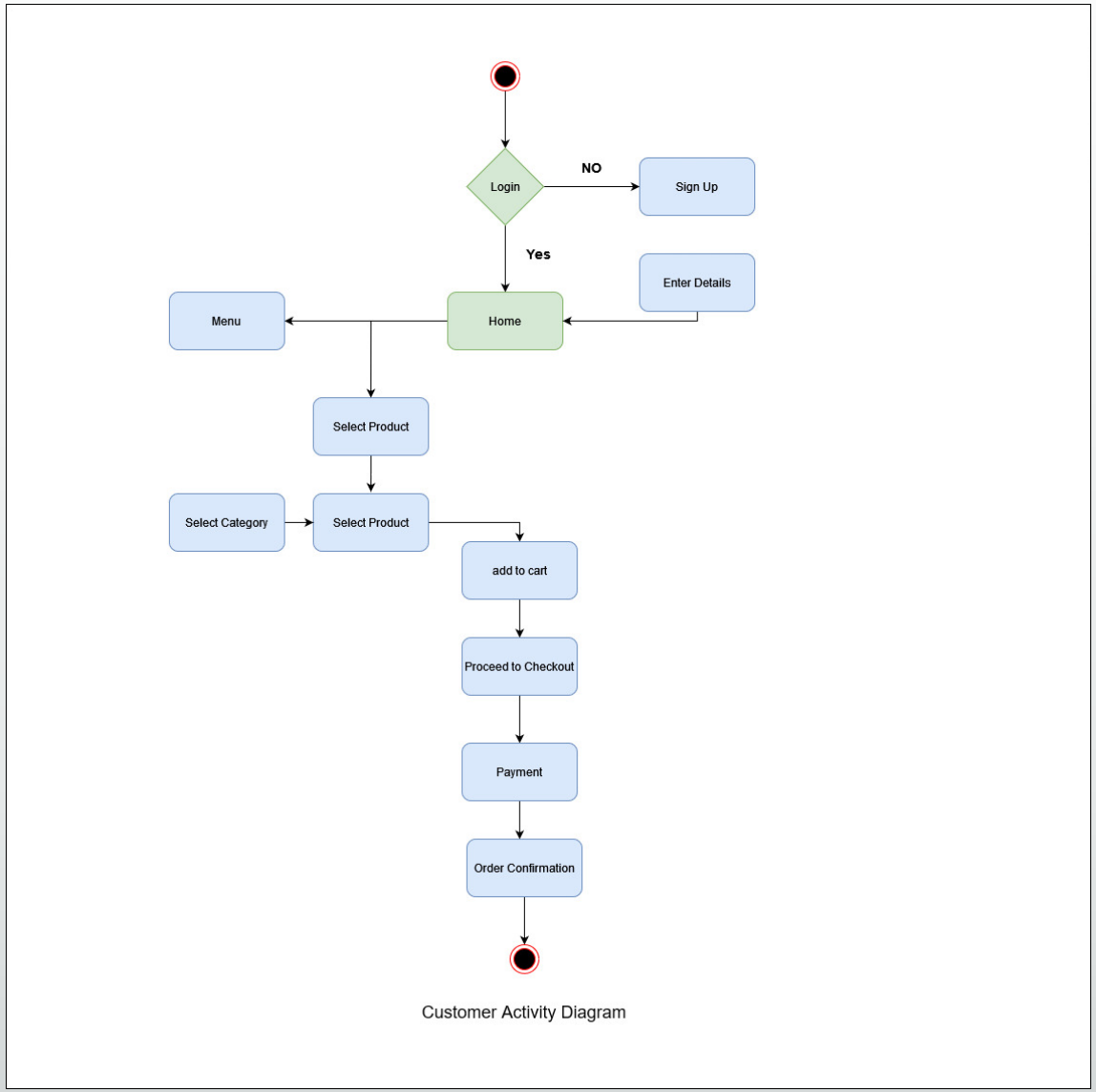


Sequence Diagram

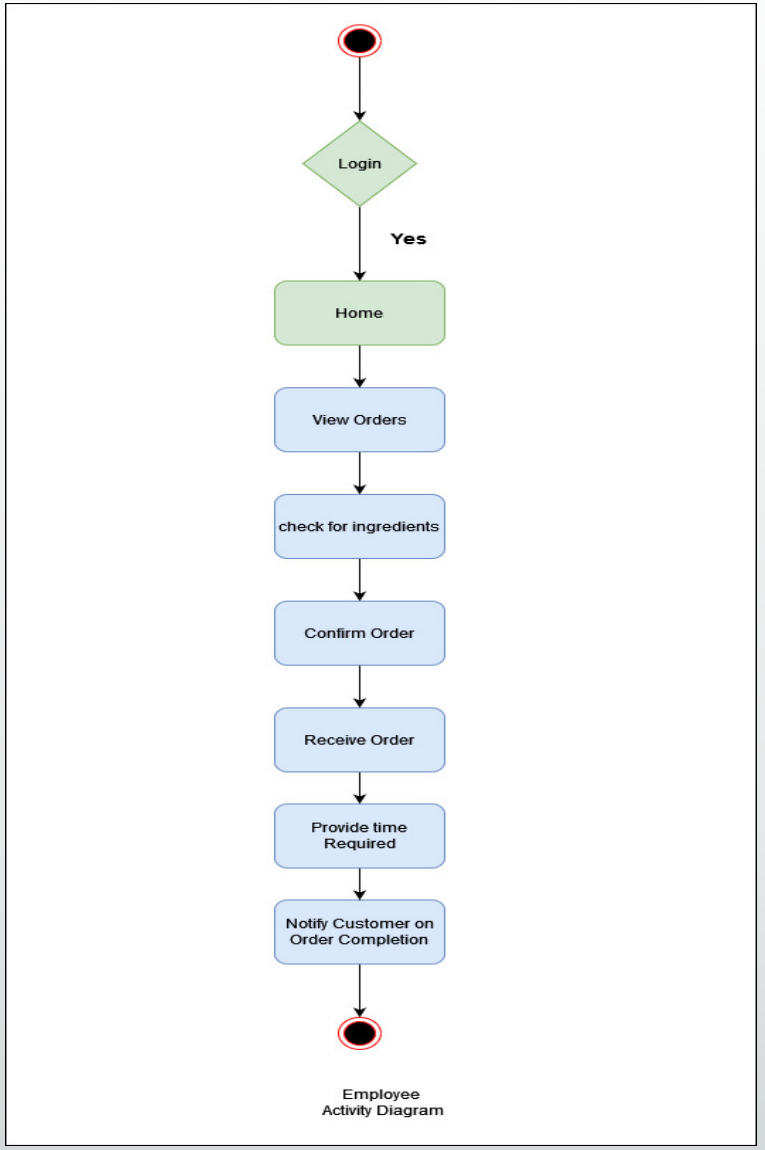
This System Login Sequence Diagram, which shows how admins may access their accounts using their credentials. User may control all operations on Category, Order, Delivery, Food Item, and Customer after logging in. All pages, including Delivery, Food Item, and Customer, are secure, and users may only access them after logging in. The diagram below demonstrates how a Food Ordering System's login page works. The different items on the Food Item, Category, Order, Delivery, and Customer pages interact with one another during the sequence, and users will be unable to access this page without first proving their identification.



Activity Diagram
Customer Activity Diagram



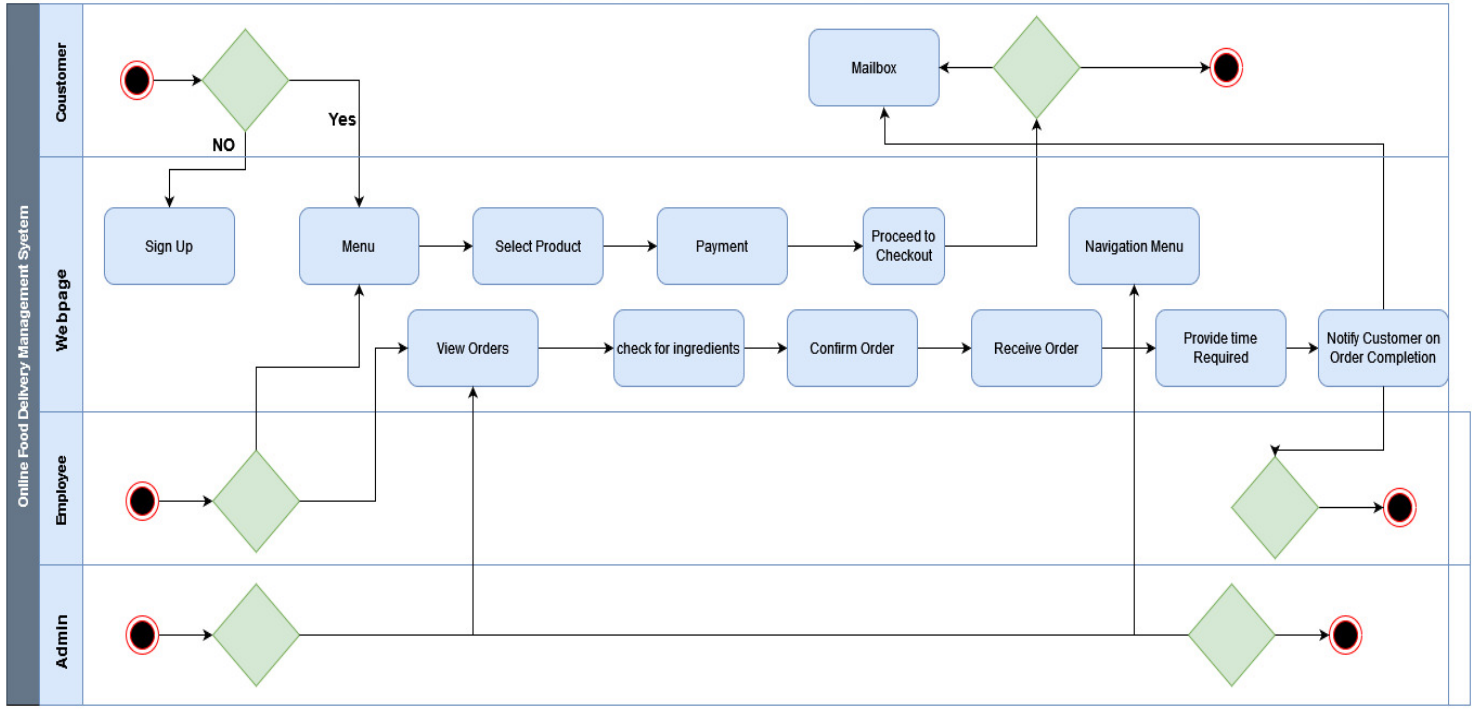
Customer Activity Diagram



Employee
Activity Diagram

Swim lane diagram Online Food Delivery Management System:

A Swimland activity diagram groups the activities into swim lanes columns that contain all of the activities which fit into the category represented by that Swimland. Swim lanes can represent many categories of information such as actors which perform the activities, the stage of the process in which the activity takes place, or whatever else the creator of the document feels should be emphasized and communicated by the swim lane diagram. The term swim lane was adopted due to the visual similarity between the horizontal rows of the diagram to that of the swim lanes found within a swimming pool.



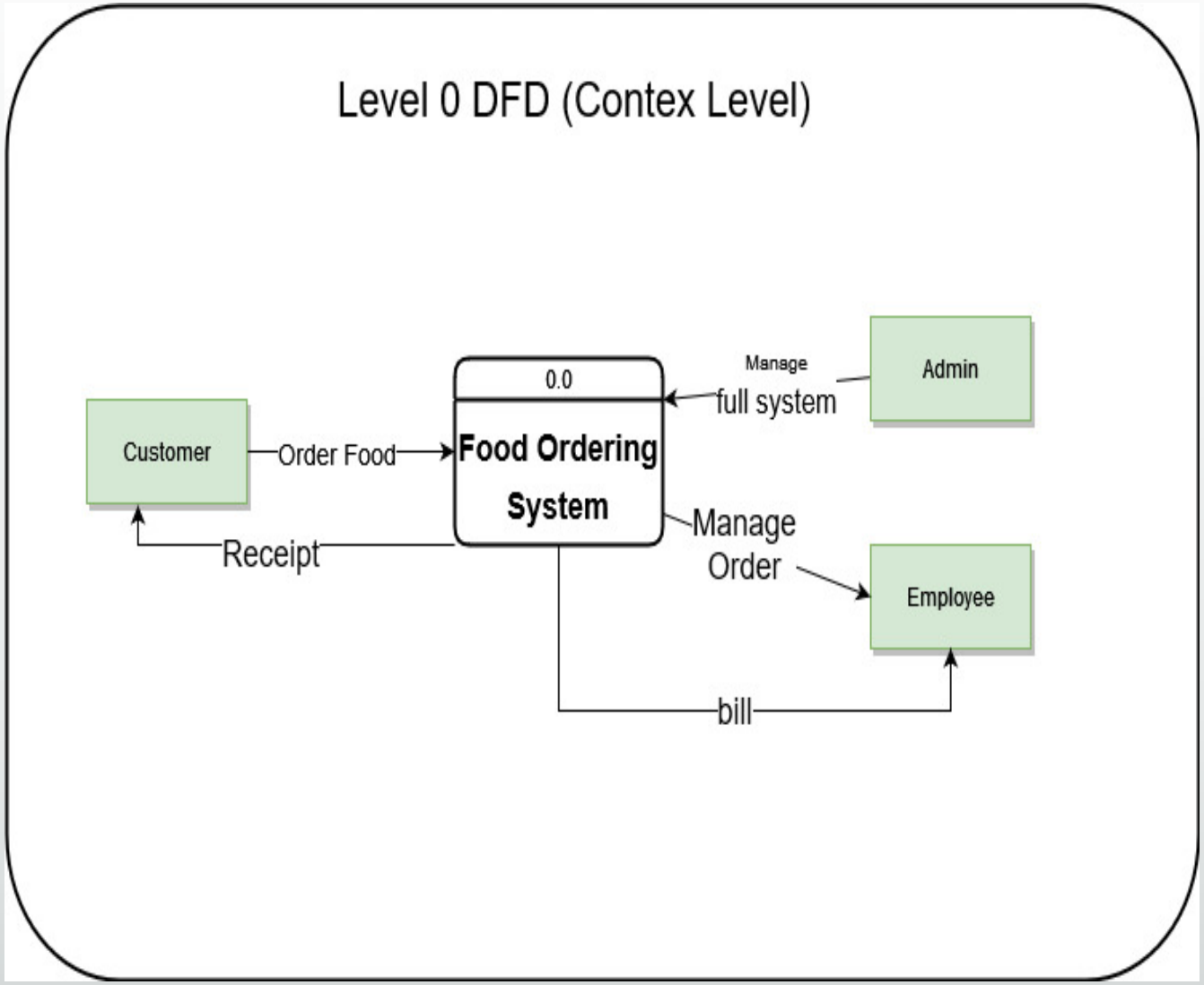
Swimlane diagram

Online Food Delivery Management Syetem

Data Flow Diagram

DFD diagram level 0:

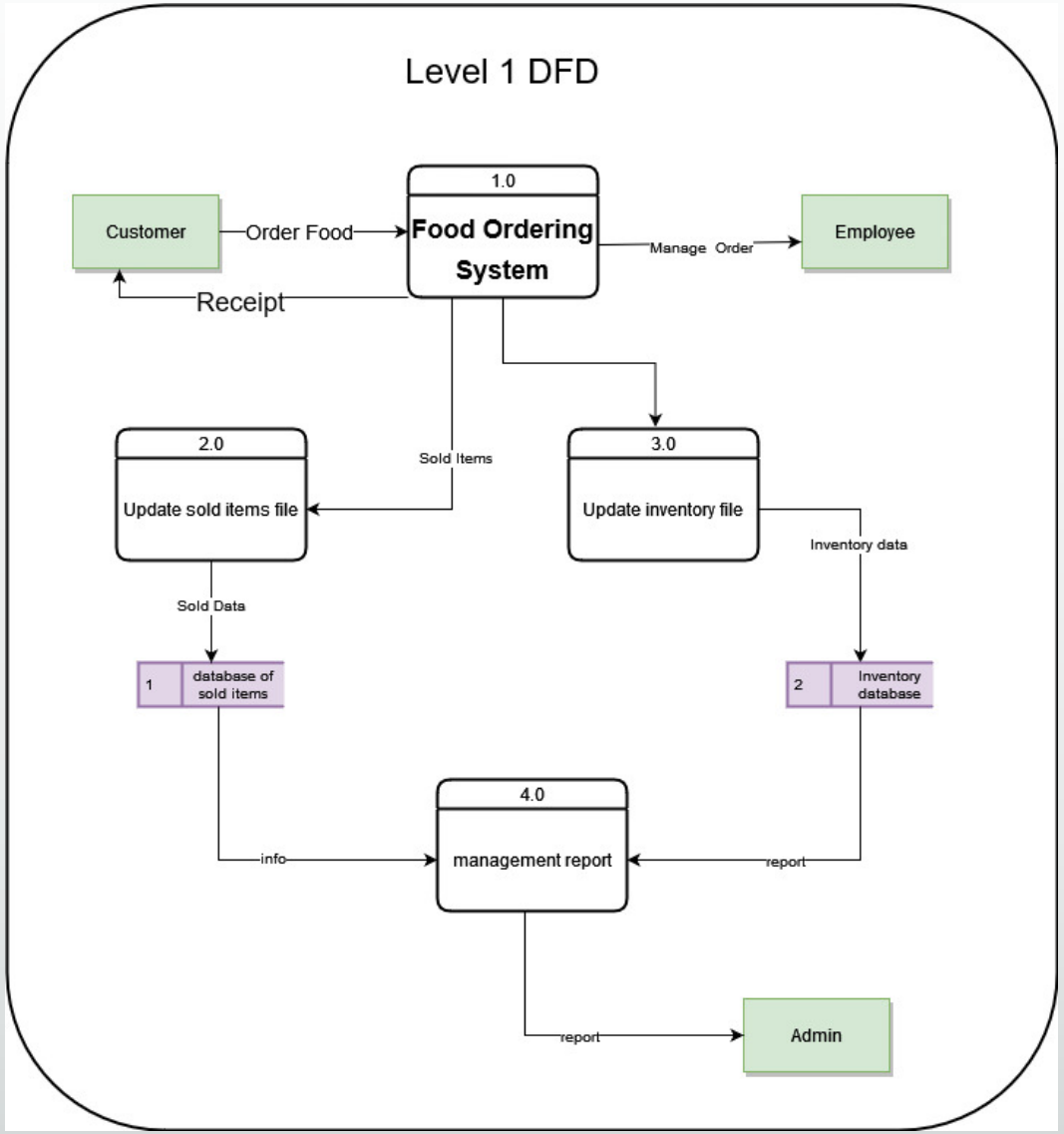
At this level, the Input and Output of the system are shown. The system is designed and established across the world with input and output at this level.



Data Flow Diagram

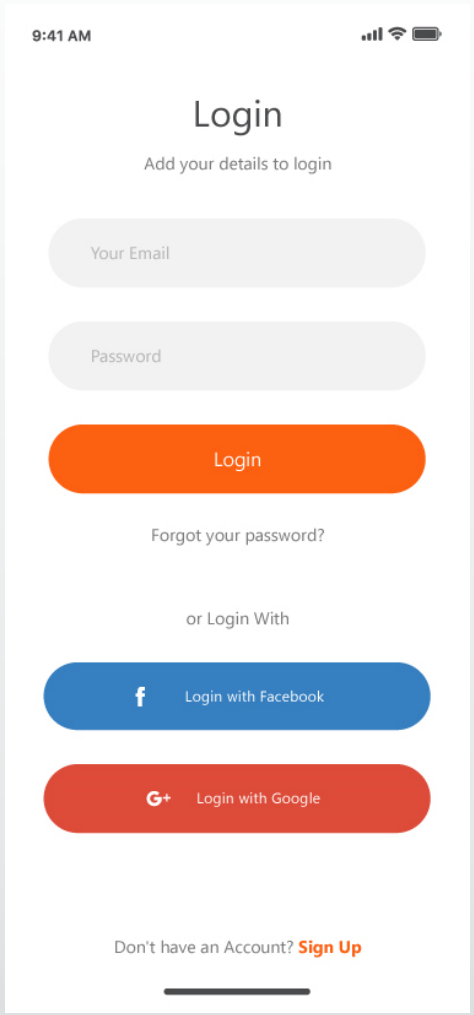
DFD diagram level 1:

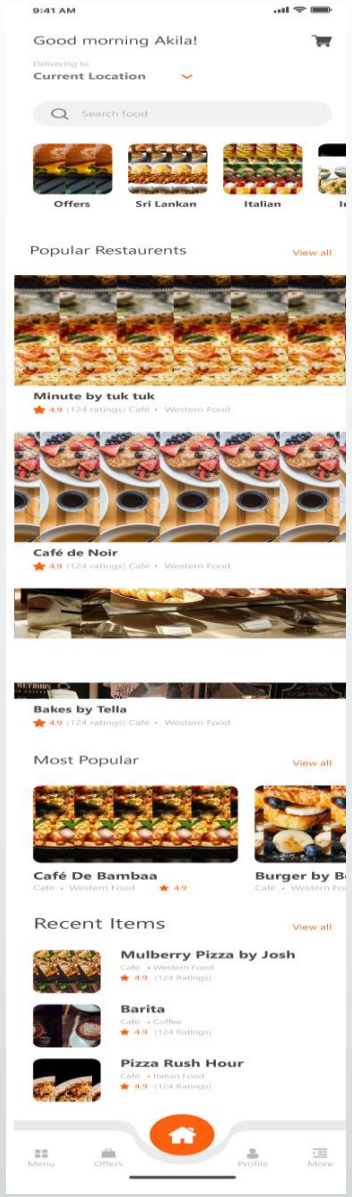
For processing the order, process 1.0 is responsible. For food, the housekeeping activities involved are represented by processes 2.0, 3.0, and 4.0. The detailed information about daily sold items should be available to create and report management and the list of items that are available ‘in-stock’ should be kept by maintaining the inventory at the same time.

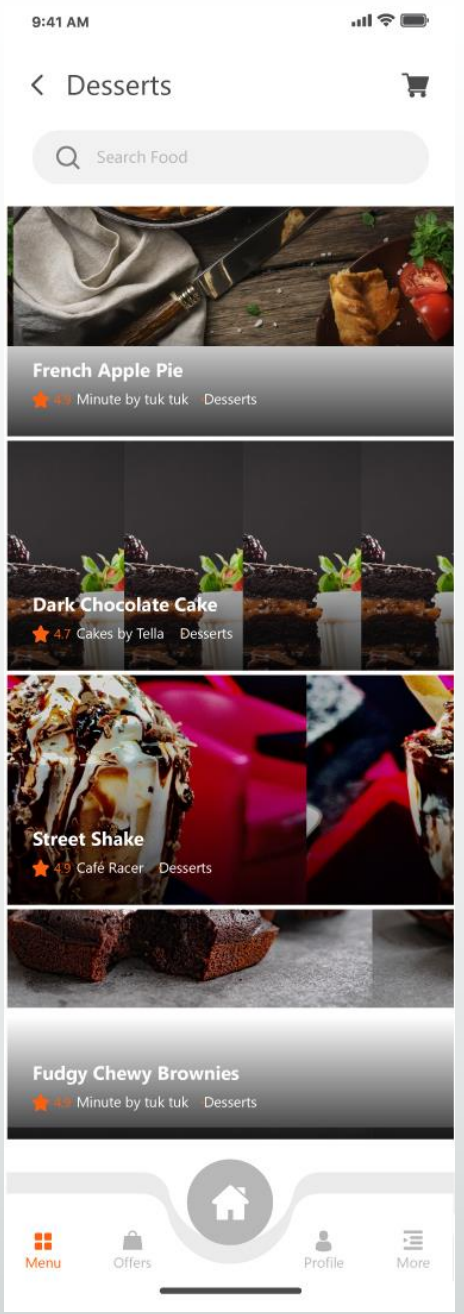


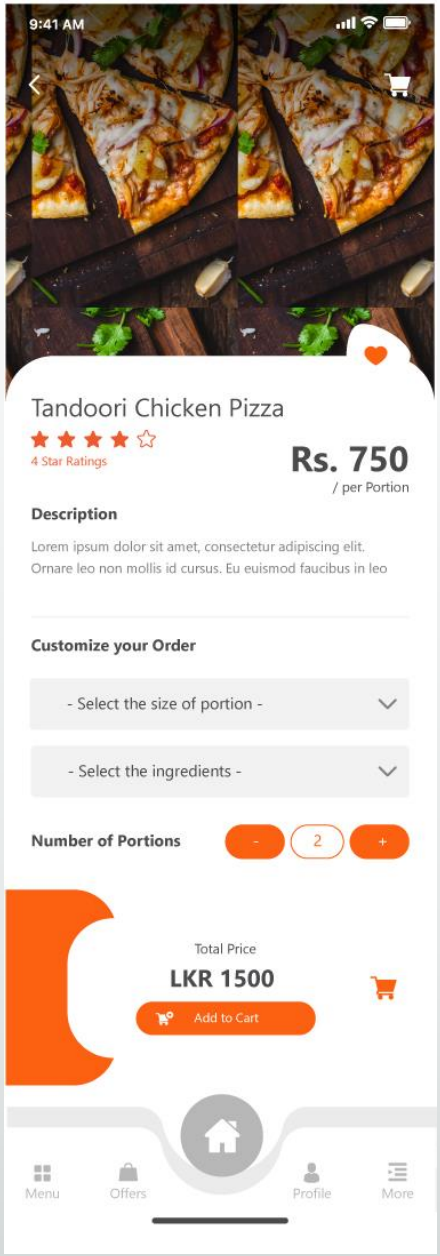
UI/UX


9:41 AM
Master FOOD
DELIVERY
Discover the best foods from over 1,000 restaurants and fast delivery to your doorstep
Login
Create an Account

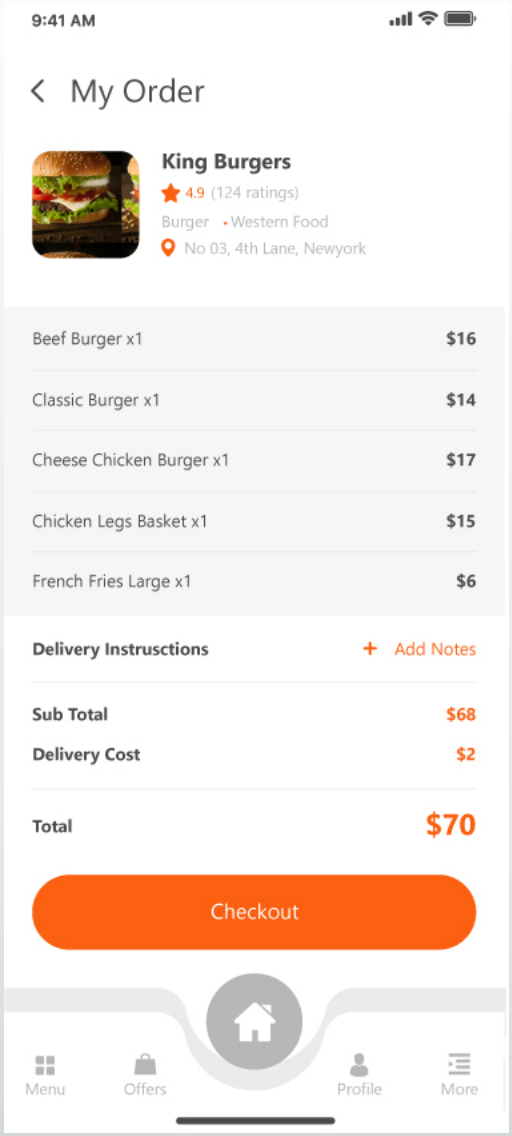

9:41 AM
Login
Add your details to login
Your Email
Password
Login
Forgot your password?
or Login With
Login with Facebook
Login with Google
Don't have an Account? Sign Up

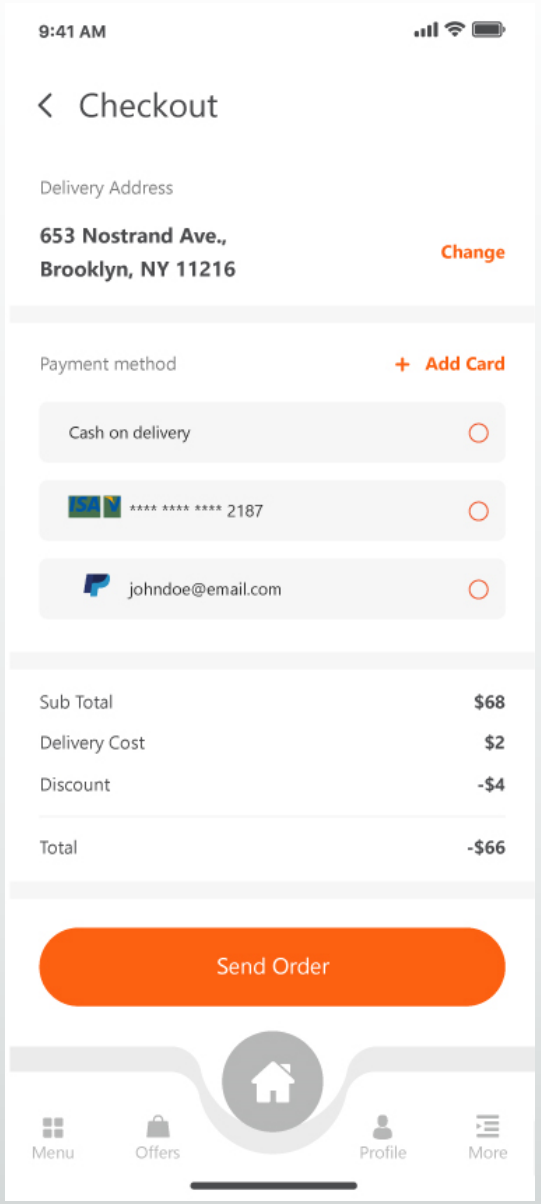

9:41 AM
Good morning Akila!
Current Location
Search food
Offers
Sri Lankan
Italian
Popular Restaurents
View all
Minute by tuk tuk
Café de Noir
Bakes by Tella
Most Popular
Café De Bambaa
Burger by B
Recent Items
Mulberry Pizza by Josh
Barita
Pizza Rush Hour
Menu
Offers
Profile
More

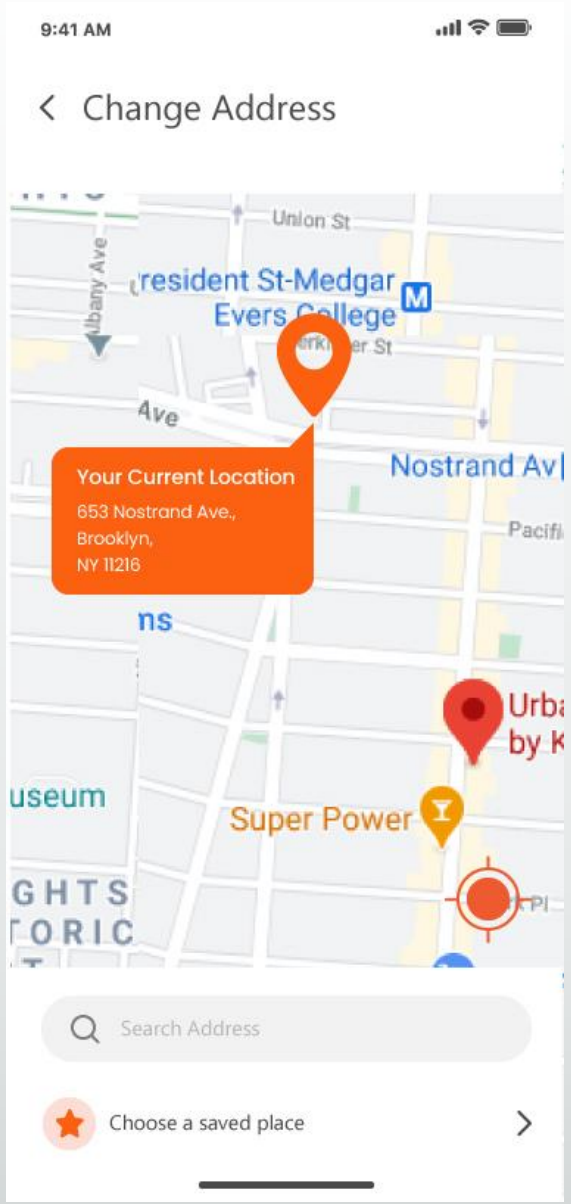

9:41 AM
Desserts
Search Food
French Apple Pie
Minute by tuk tuk
Desserts
Dark Chocolate Cake
4.7 Cakes by Tella
Desserts
Street Shake
4.9 Café Racer
Desserts
Fudgy Chewy Brownies
Minute by tuk tuk
Desserts
Menu
Offers
Profile
More

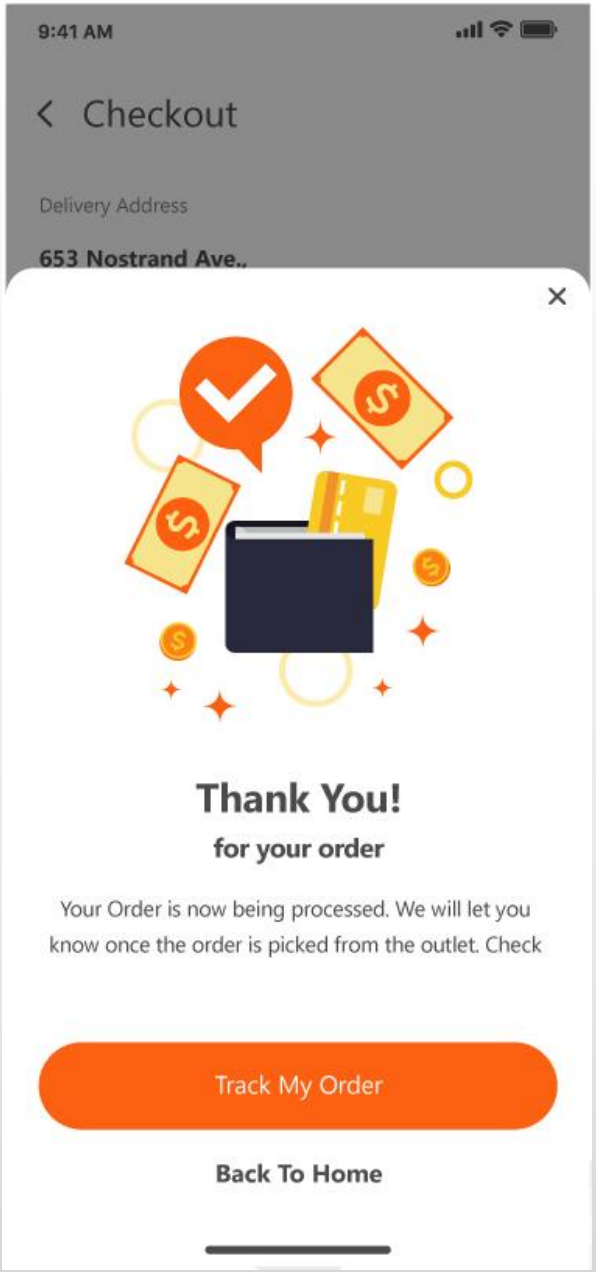

9:41 AM
Tandoori Chicken Pizza
4 Star Ratings
Rs. 750
/ per Portion
Description
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ornare leo non mollis id cursus. Eu euismod faucibus in leo
Customize your Order
- Select the size of portion -
- Select the ingredients -
Number of Portions
2
Total Price
LKR 1500
Add to Cart
Menu
Offers
Profile
More

UI/UX


9:41 AM
My Order
King Burgers
4.9 (124 ratings)
Burger • Western Food
No 03, 4th Lane, Newyork
Beef Burger x1 $16
Classic Burger x1 $14
Cheese Chicken Burger x1 $17
Chicken Legs Basket x1 $15
French Fries Large x1 $6
Delivery Instrusctions + Add Notes
Sub Total $68
Delivery Cost $2
Total $70
Checkout
Menu
Offers
Profile
More

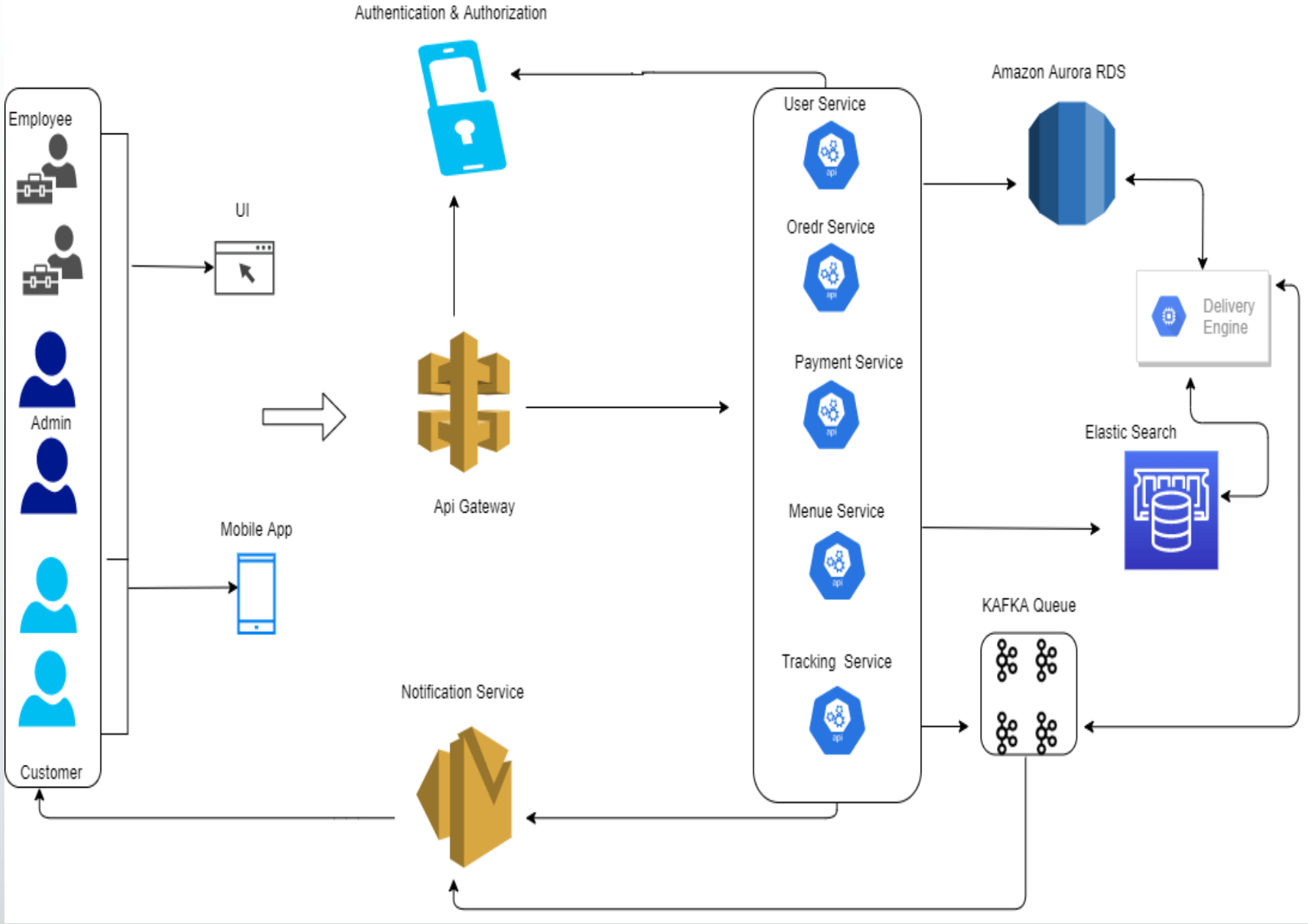

9:41 AM
Checkout
Delivery Address
653 Nostrand Ave.,
Brooklyn, NY 11216
Change
Payment method
+ Add Card
Cash on delivery
**** **** **** 2187
johndoe@email.com
Sub Total $68
Delivery Cost $2
Discount -$4
Total -$66
Send Order
Menu
Offers
Profile
More


9:41 AM
Change Address
Union St
Albany Ave
Nostrand Av
Your Current Location
653 Nostrand Ave.,
Brooklyn,
NY 11216
Super Power
Search Address
Choose a saved place

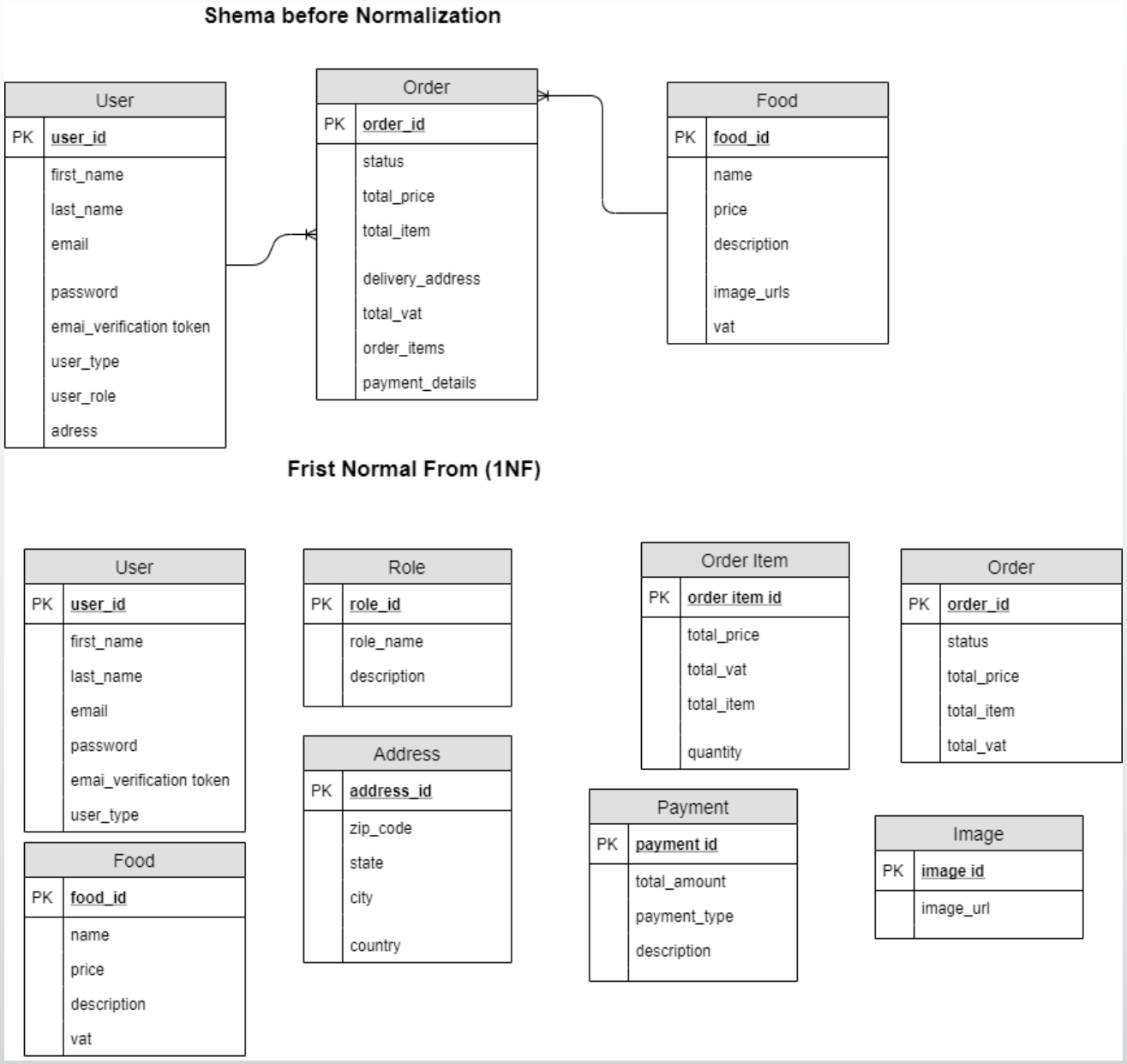

9:41 AM
Checkout
Delivery Address
653 Nostrand Ave..
Thank You!
for your order
Your Order is now being processed. We will let you know once the order is picked from the outlet. Check
Track My Order
Back To Home

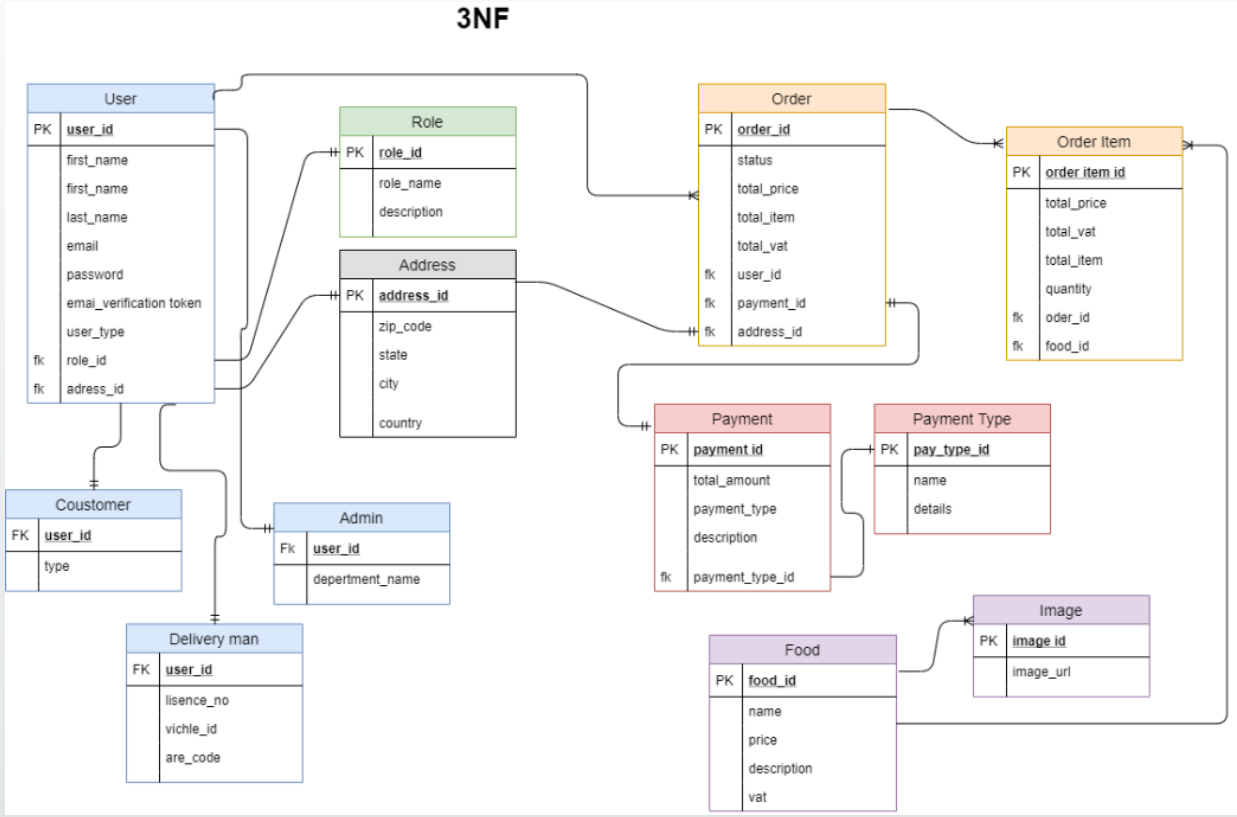
Architecture Flow Diagram

Online Food Delivery Management System Architecture Flow Diagram



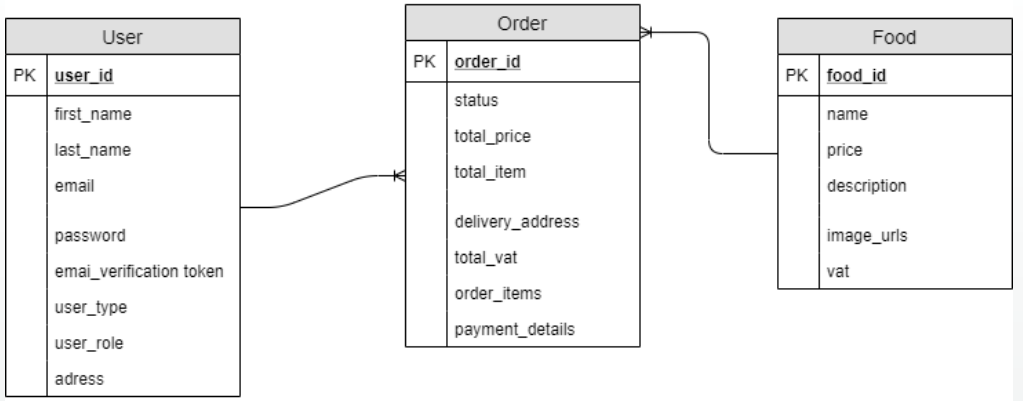
Schema Diagram



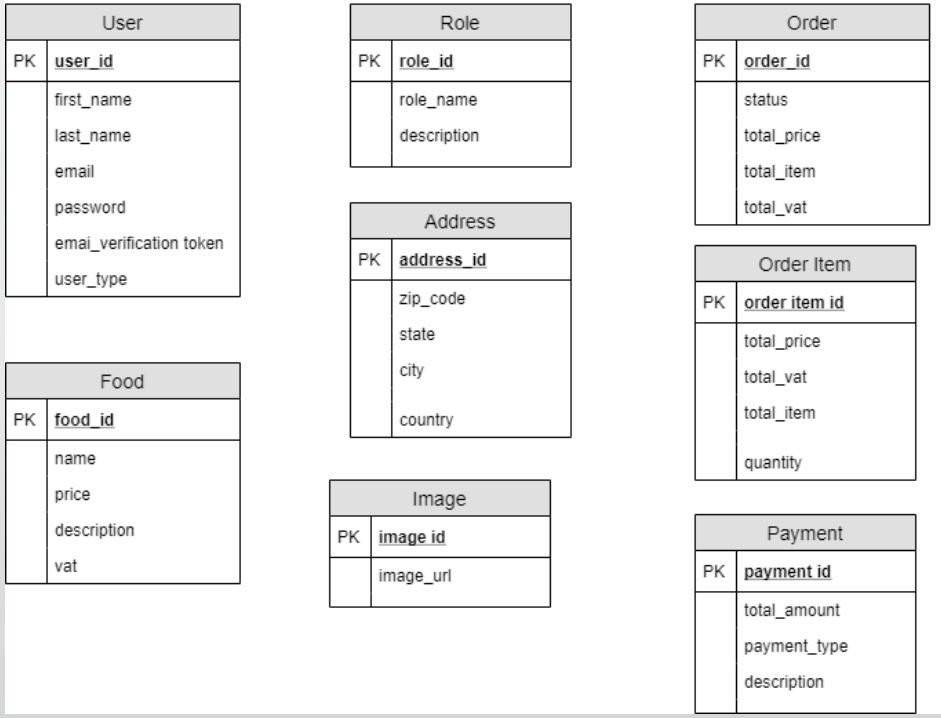


Normalization

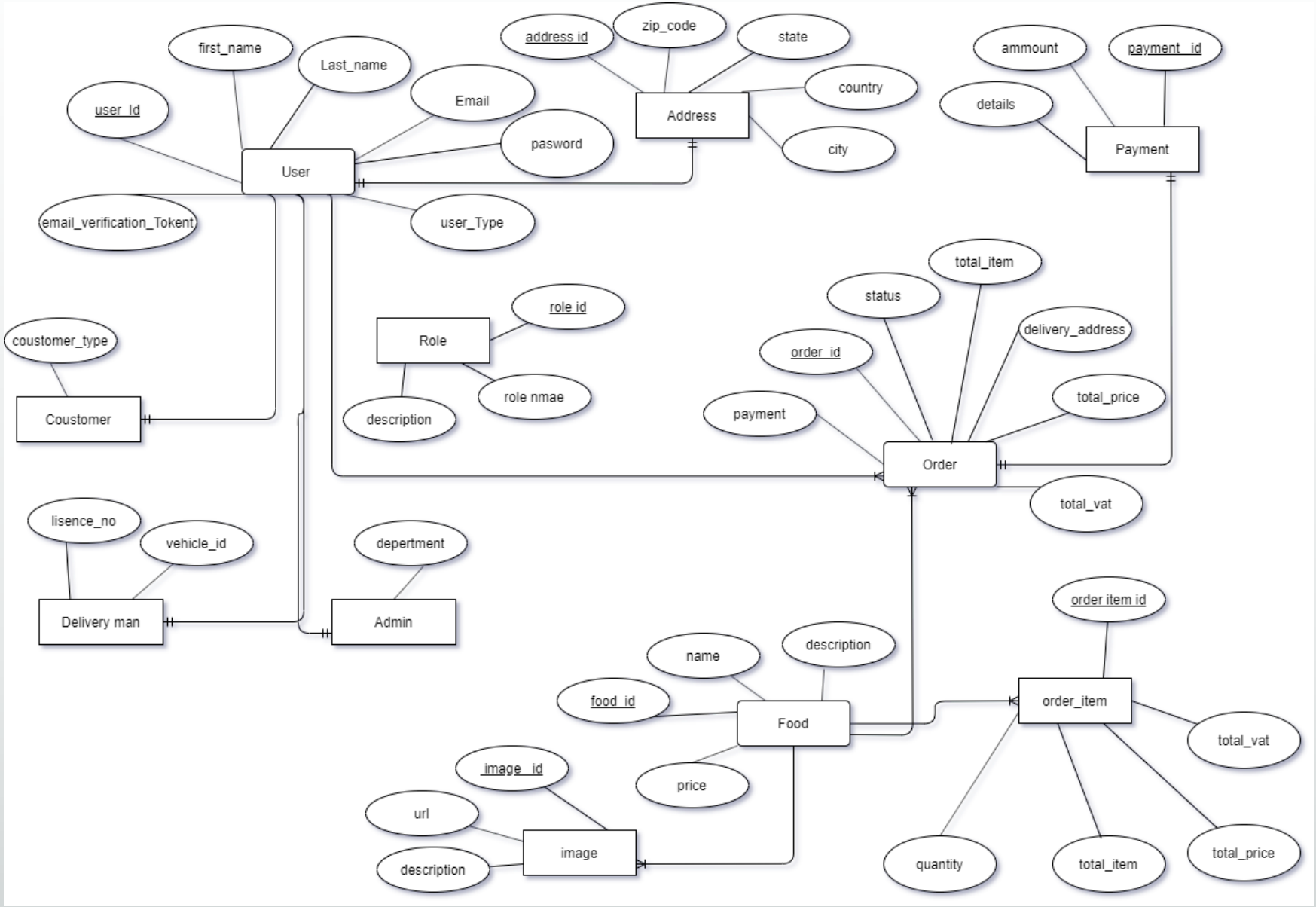
Shema before Normalization



Frist Normal From (1NF)



ERD After Normalization



Learning Experience

- The project took a long time to complete.
- It was attempted to incorporate as many features as feasible within the time constraints.
- The Functional Requirements were met satisfactorily.
- Some of the system's non-functional requirements have not been implemented.
- These requirements are the most important and reflect the most important qualities.
- Due to time constraints, some needs are not implemented. However, because they are lower priority features, their loss would not cause substantial operational concerns.
- In the future, these functionalities may be introduced.

Conclusion

After a decade of technological growth and invention, people are able to perform their tasks more conveniently and efficiently. Many other industries have employed management systems to help their businesses thrive for a long time, and the food and beverage industry is following suit. By completely employing the system at the end of this project, the system will be able to minimize and replace human manpower tasks, reduce transaction time, and provide reports for further management purposes.

On the other side, modern technology makes the criterion for portability simple to meet. As a result, portability has become one of the factors that must be considered throughout the creation of a system. Because mobility provides a number of advantages to users while using the system, such as convenience, accessibility, and ease of communication, among others. As a result, mobility has had such an impact on society that everyone now prefers to do their tasks using a portable device.

Thank you !

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