SD REPORT

Online Food Delivery System

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Introduction

The "Online food ordering system" has been developed to overcome the problems prevailing in the manual system. This software is supposed to eliminate and, in some cases, reduce the hardships faced by this existing system. This also helps in growing the businesses of restaurants, cafes and cloud kitchens. This avoids errors while entering the data as it provides error message while entering invalid data. It is a user-friendly system wherein they can concentrate on other activities rather than on keeping records. It helps organization in better utilization of resources while overriding and managing challenges like storing information of category, food item, order, payment, confirm order.

Purpose

As we know, the long wait to order food offline when a large crowd is to be managed causes damage to the business, losing out on potential customers in the process. Online ordering systems help them satisfy a lot of customers without wasting a lot of their time.

As we have seen during the covid times, customers find it more convenient to place orders from the comfort of their homes and not go to various restaurants. Moreover, it creates an employment opportunity for some people who can deliver the food to the customers' homes.

Description

Our Online food ordering system includes:

User: User first creates an account by entering details like name, email id, password, address and mobile number. Then again logs into the system then selects a restaurant and places orders from the menu and makes the payment (can be COD, E-wallet or online).

Login: It has the name and password that is given by the user while logging in.

Admin: Admin also has to log in into the system. Admin can manage the users, add users and even delete users.

Database Manager: Database manager also has to log in. Manages the database. It is further divided into two: -

Restaurant database manager: Stores user details, restaurant details, receives confirmation from restaurant about the order and delivery confirmation through tracking system.

Bank Database manager: Verifies the customer's bank details.

Menu: Menu is viewed by the user and then only they place order. In that we select the item, it has a fixed of the item mentioned and user also needs to select the category of veg or non-veg. Also, the menu has options for sides and beverages.

Restaurant: Restaurant takes up the order that is placed by the user and prepares for the order that has been placed. It also generates bills or you can say the amount that a user needs to pay for a particular order.

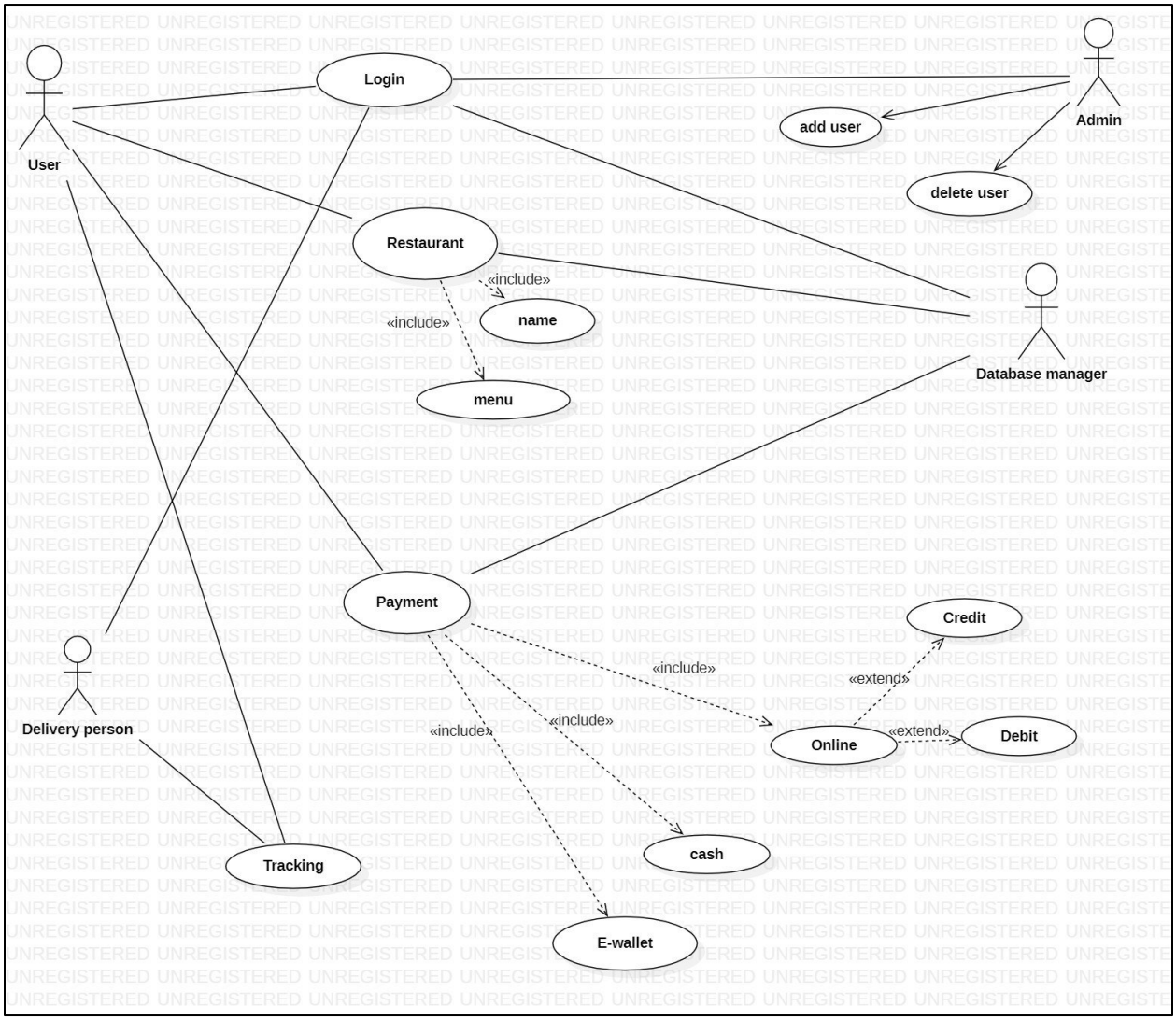
Payment: After placing the order we need to make the payment. Here we have 3 options by which we can pay: COD, E-Wallet and online. While paying we have the payment date , amount and the payment id which is generated by the system.

Societal Impact

During the Covid-19 pandemic Consumers are increasingly using online services as their disposable income increases, electronic payments become more trustworthy, and the range of suppliers and the size of their delivery networks expand alongside the expand of internet service. Online food delivery has changed the way that many consumers and food suppliers interact. Instead of wasting time taking orders over the phone, orders can be received online, and the orders received from the customers directly have matchless accuracy. It has created employment on a large scale for the delivery person. The online ordering technology will also help in tapping into a massive customer base which is tech-savvy and believes in 'online way'.

Diagrams:

Use case:



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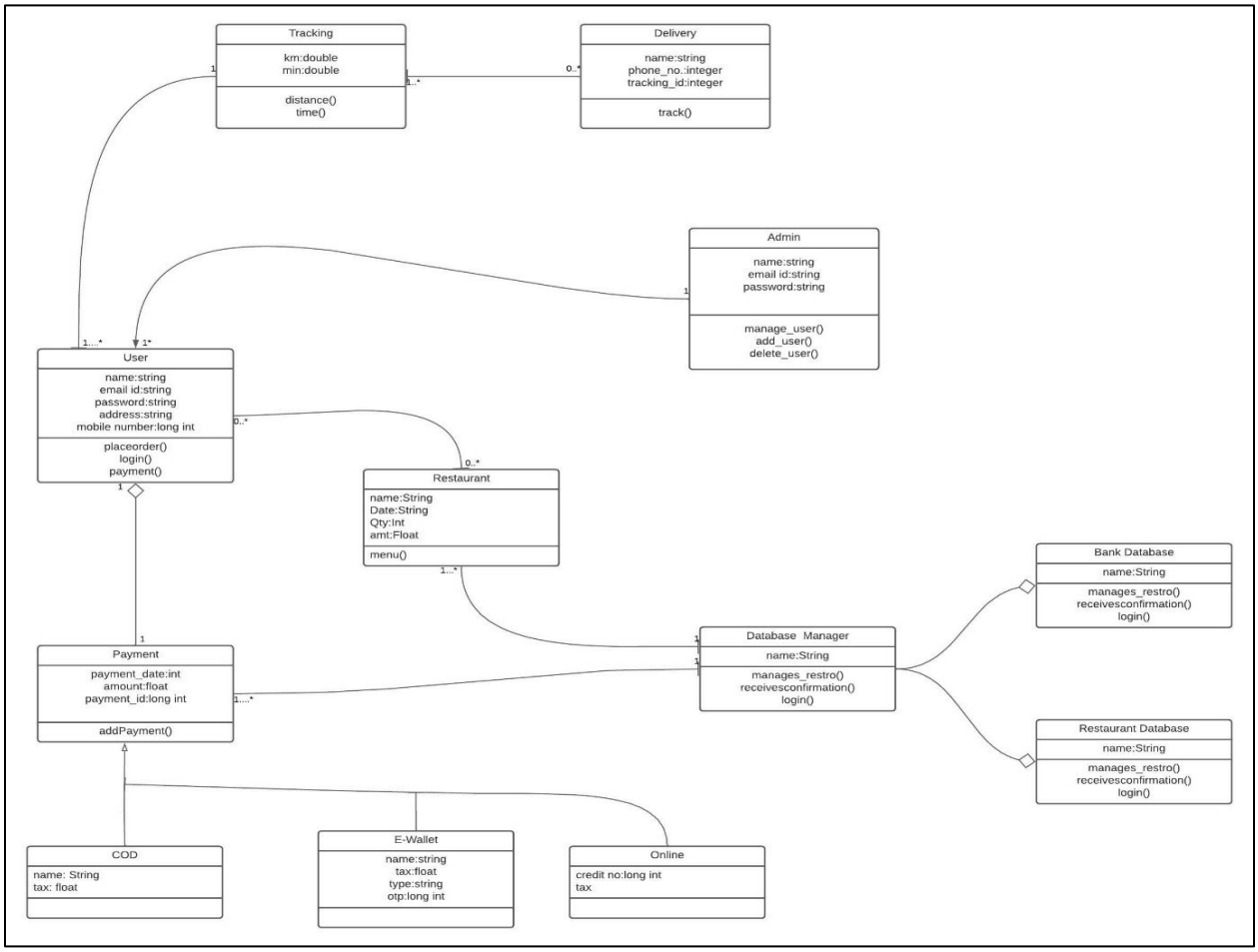
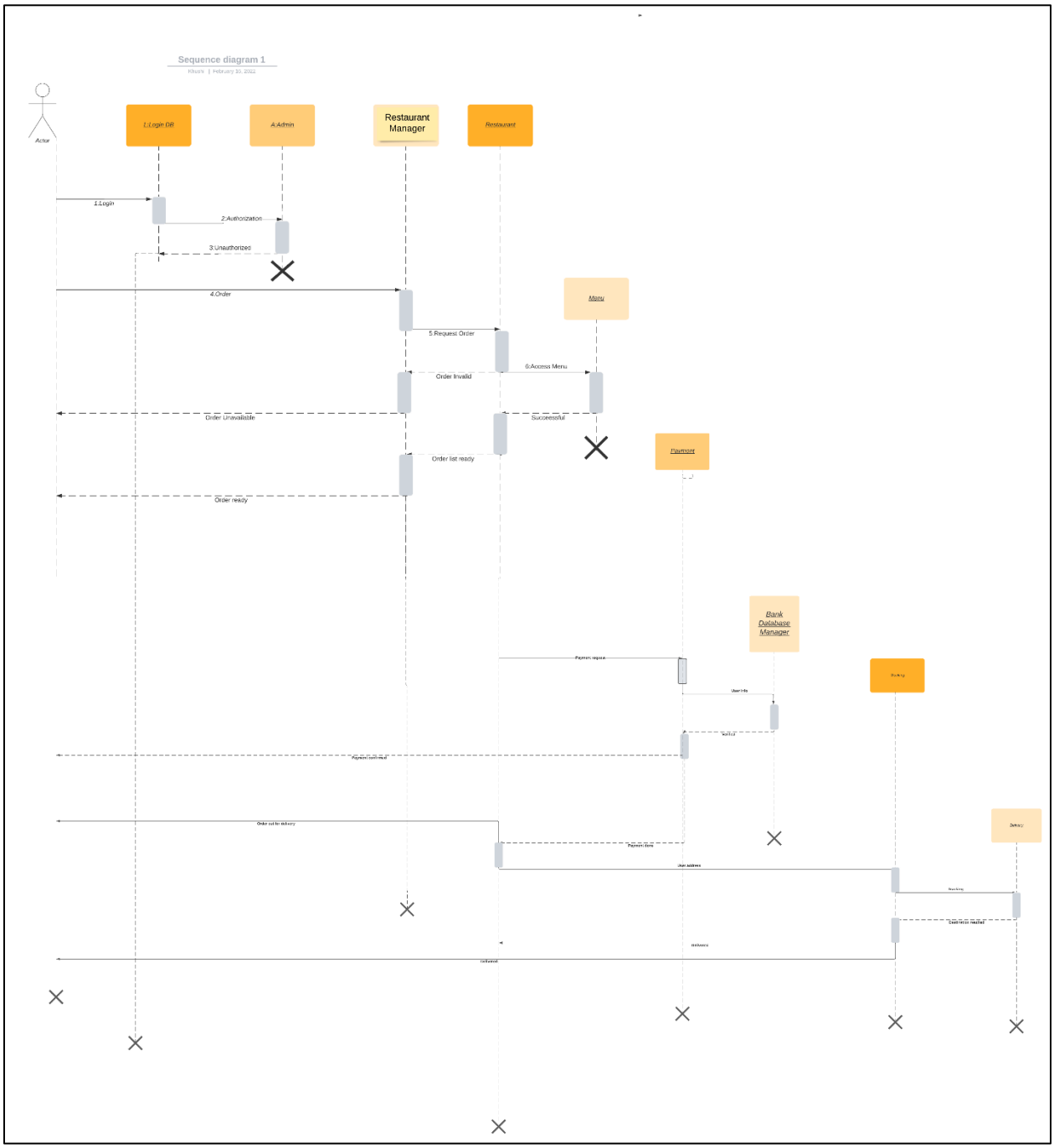
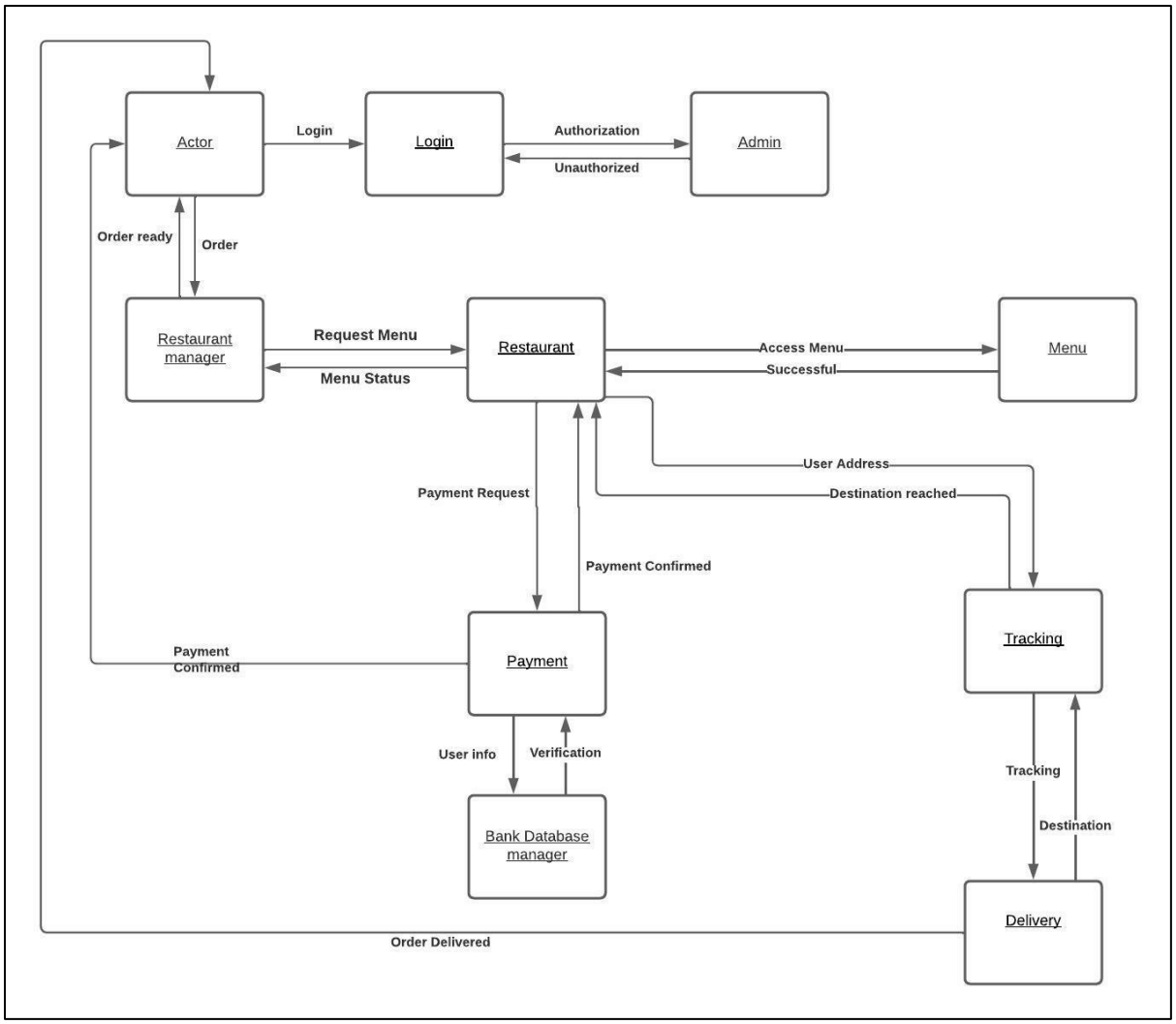

Tracking
km:double
min:double
distance()
time()
Delivery
name:string
phone_no..integer
tracking_id:integer
track()
Admin
name:string
email id:string
password:string
manage_user()
add_user()
delete_user()
User
name:string
email id:string
password:string
address:string
mobile number:long int
placeorder()
login()
payment()
Restaurant
name:String
Date:String
Qty:Int
amt:Float
menu()
Bank Database
name:String
manages_restro()
receivesconfirmation()
login()
Database Manager
name:String
manages_restro()
receivesconfirmation()
login()
Payment
payment_date:int
amount:float
payment_id:long int
addPayment()
Restaurant Database
name:String
manages_restro()
receivesconfirmation()
login()
COD
name: String
tax: float
E-Wallet
name:string
tax:float
type:string
otp:long int
Online
credit no:long int
tax

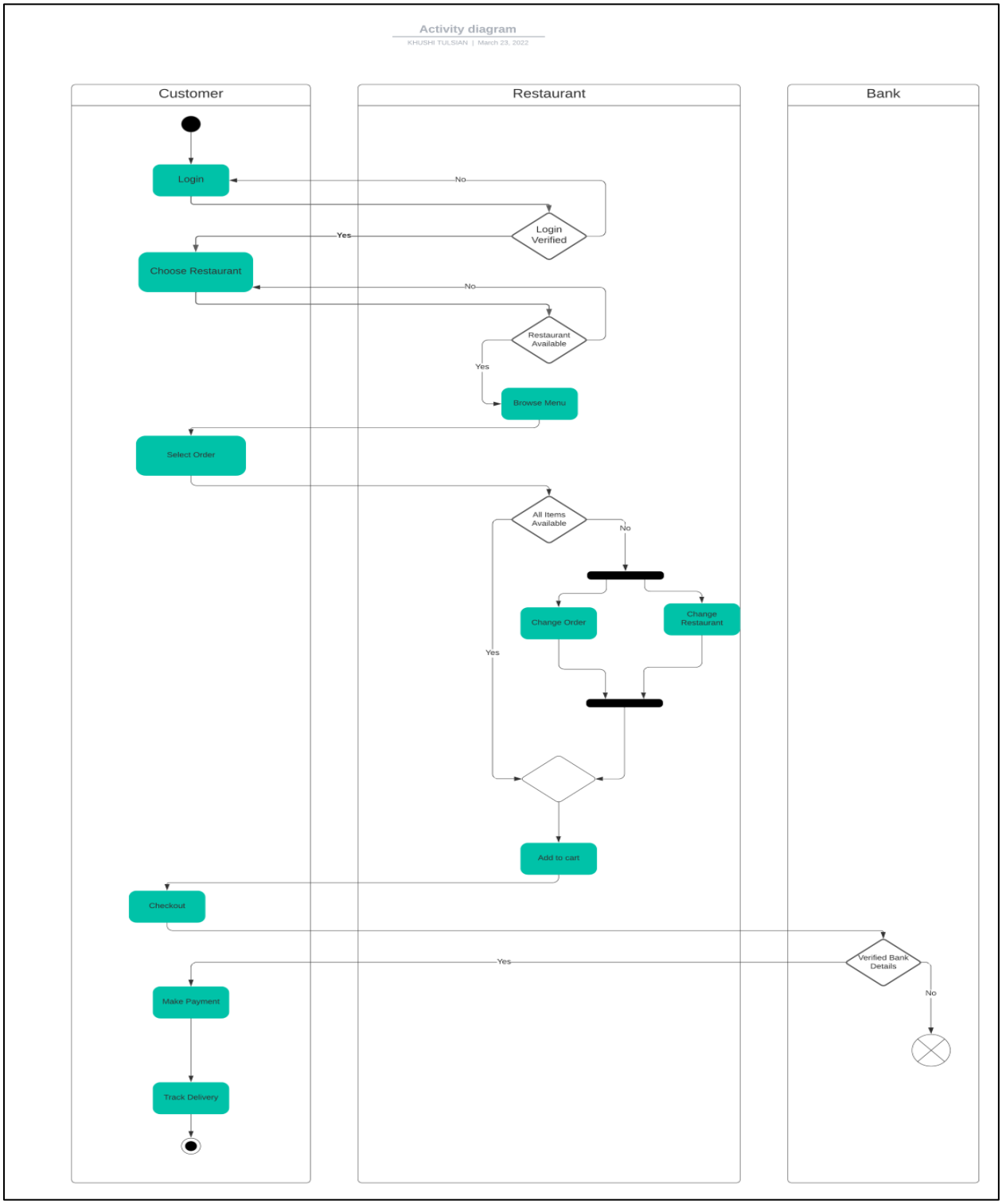
Sequence:


Sequence diagram 1
Actor
L:Login DB
A:Admin
Restaurant Manager
Restaurant
Menu
Payment
Bank Database Manager
1:Login
2:Authorization
3:Unauthorized
4:Order
5:Request Order
6:Access Menu
Order Invalid
Order Unavailable
Successful
Order list ready
Order ready

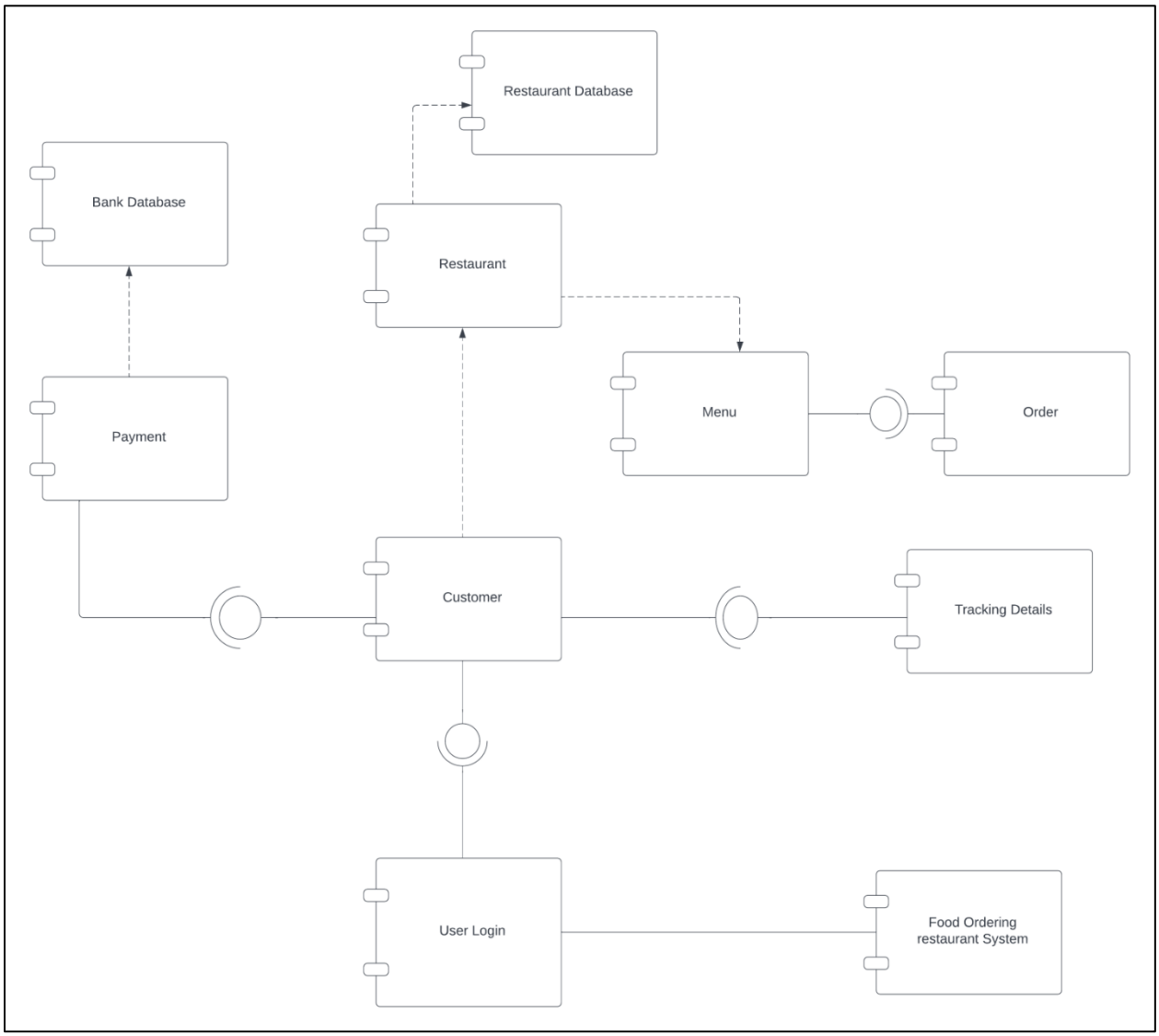
Collaboration:



Activity:


Activity diagram
KHUSHI TULSIAN | March 23, 2022
Customer
Restaurant
Bank
Login
No
Login Verified
Yes
Choose Restaurant
No
Restaurant Available
Yes
Browse Menu
Select Order
All Items Available
No
Change Order
Change Restaurant
Yes
Add to cart
Checkout
Verified Bank Details
Yes
No
Make Payment
Track Delivery

Component:


Restaurant Database
Bank Database
Restaurant
Payment
Menu
Order
Customer
Tracking Details
User Login
Food Ordering
restaurant System

Conclusion

We were successfully able to implement different concepts of software development on our project that was based on an online food ordering system. We made use of different diagrams like use case diagram, class diagram, sequence diagram, etc. to explain and elaborate the system. Our system helps customers easily place orders and gives them the required information about their orders, they can even pay according to their convenience and they can track their orders.