

## **ONLINE RESTAURANT AGGREGATOR AND FOOD ORDER SYSTEM**

### **KHAO-KGP**

#### **SUBMITTED BY:**

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#### **ABSTRACT :**

KHAO-KGP is a website designed primarily for use in the food delivery industry. This system will allow hotels and restaurants to increase scope of business by reducing the labor cost involved. The system also allows to quickly and easily manage an online menu which customers can browse and use to place orders with just few clicks. Restaurant agents then use these orders through an easy to navigate graphical interface for efficient processing.

## **OVERVIEW :**

It is known globally that, in today's market, it is extremely difficult to start a new small-scale business and live-through the competition from the well-established and settled owners. In fast paced time of today, when everyone is squeezed for time, the majority of people are finicky when it comes to placing a food order. The customers of today are not only attracted because placing an order online is very convenient but also because they have visibility into the items offered, price and extremely simplified navigation for the order.

This Web application is an online restaurant aggregator and food ordering system in which customers, restaurants and its managers (restaurant agents) can have individual accounts. Each customer can order food items from any restaurant through his/her account and that order will be forwarded to the respective restaurant which will deliver the order and bill the customer accordingly. The customer can track the order through different stages of delivery. The restaurant has the facility of editing its online menu card whenever needed. Furthermore, there are provisions such as editing user/restaurant details, user order history and listing of user favourites.

## **BACKGROUND AND RELATED WORK :**

This Case study looks at the problem of setting up a fast food restaurant. In existing system there are few problems:

- For placing any orders customers have to visit hotels or restaurants to know about food items and then place order and pay. In this method time and manual work is required.
- While placing an order over the phone, customer lacks the physical copy of the menu item, lack of visual confirmation that the order was placed correctly.

- Every restaurant needs certain employees to take the order over phone or in-person, to offer a rich dining experience and process the payment.

In today's market, labor rates are increasing day by day making it difficult to find employees when needed. Hence, to solve this issue, what we propose is an "Online Food Order System, originally designed for small scale business like College Cafeterias, Fast Food restaurant or Take-Out, but this system is just as applicable in any food delivery industry. The main advantage of our system is that it greatly simplifies the ordering process for both the customer and the restaurant and also greatly lightens the load on the restaurant's end, as the entire process of taking orders is automated.

**Anticipated Benefits are:**

1. This will minimize the number of employees at the back of the counter.
2. The system will help to reduce labor cost involved.
3. The system will be less probable to make mistake, since it's a machine.
4. This will avoid long queues at the counter due to the speed of execution and number of optimum screens to accommodate the maximum throughput.

## **LIST OF TOOLS USED :**

**Database :** MySQL

**Scripting Language :** Python

**Web Framework :** Django

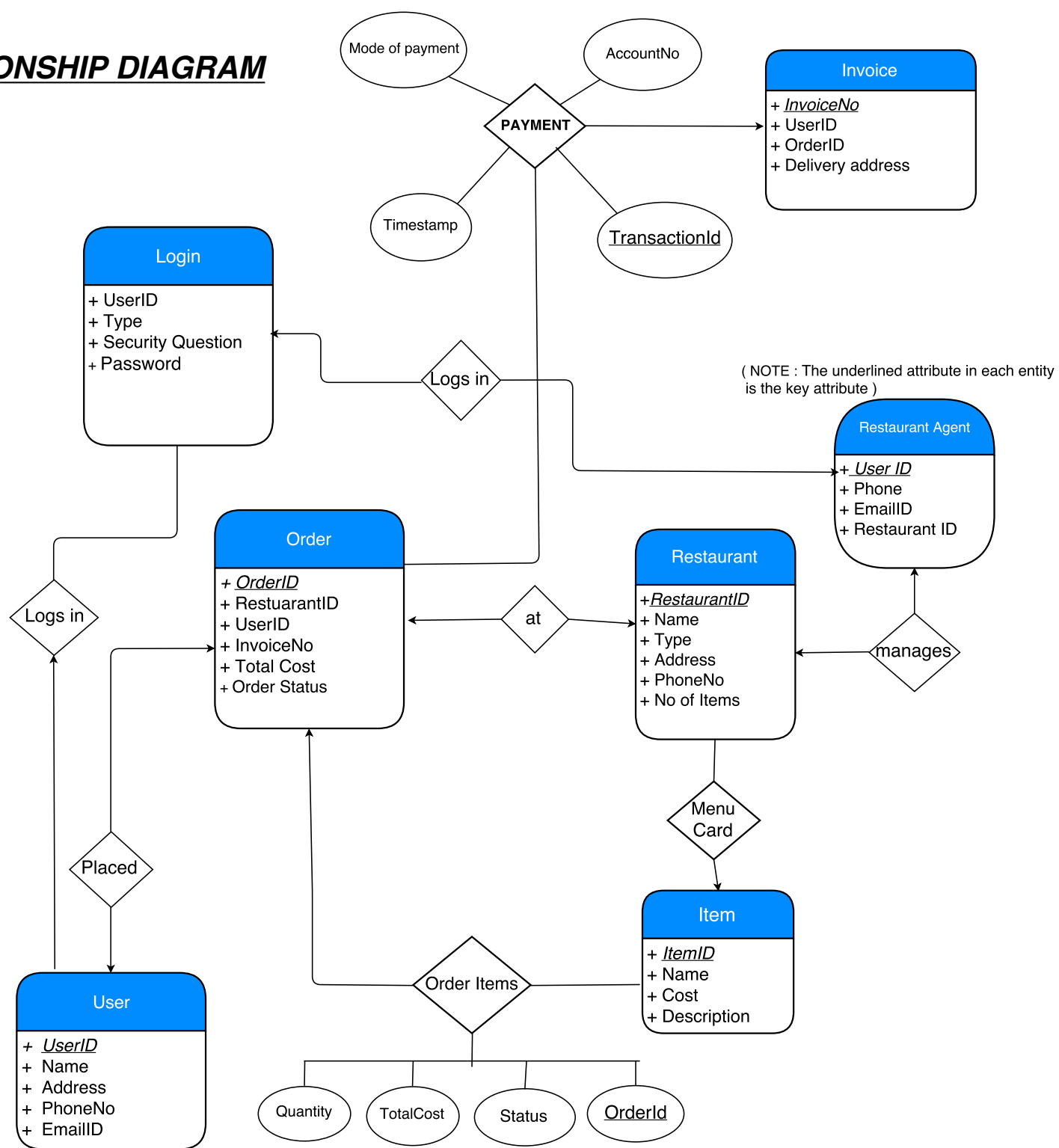
**Front-end language :** HTML, CSS, Javascript

## **LIBRARY USED :**

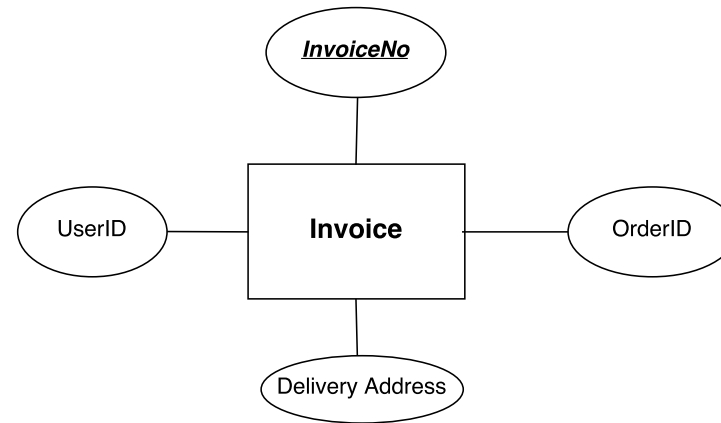
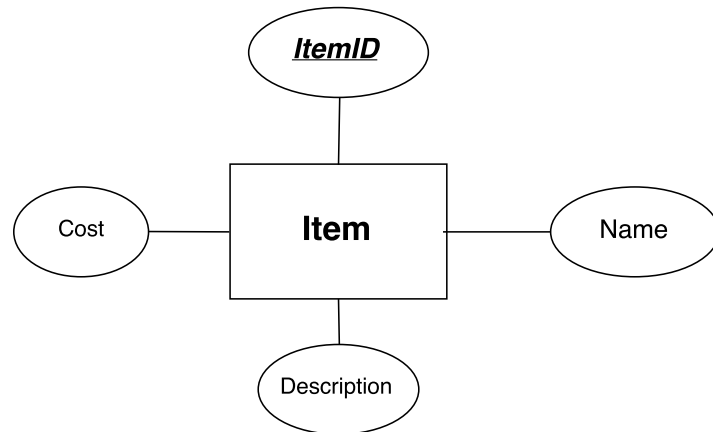
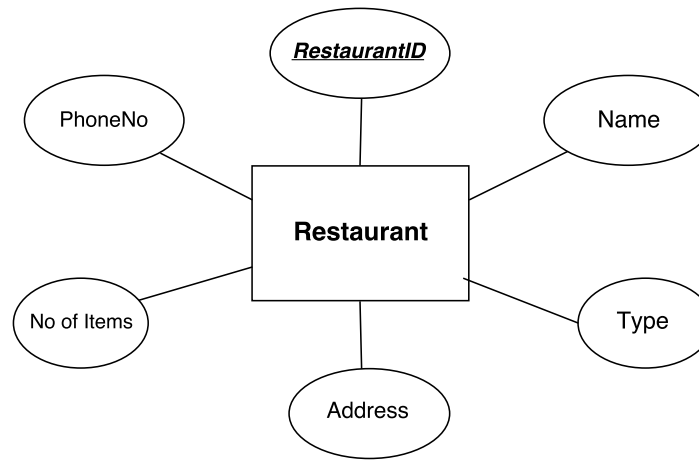
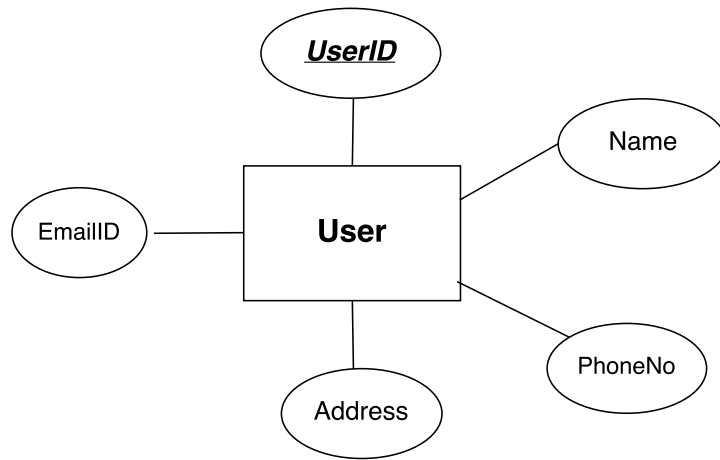
### **“numpy” library (Python) :**

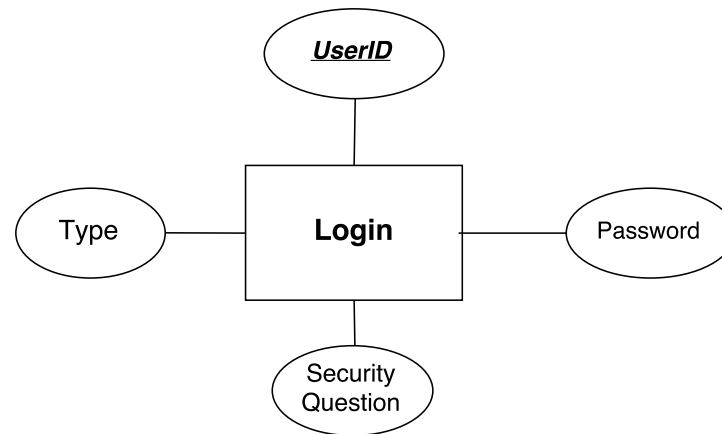
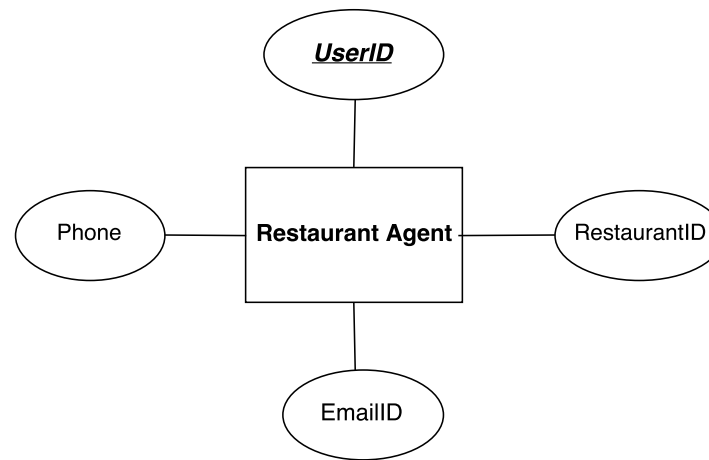
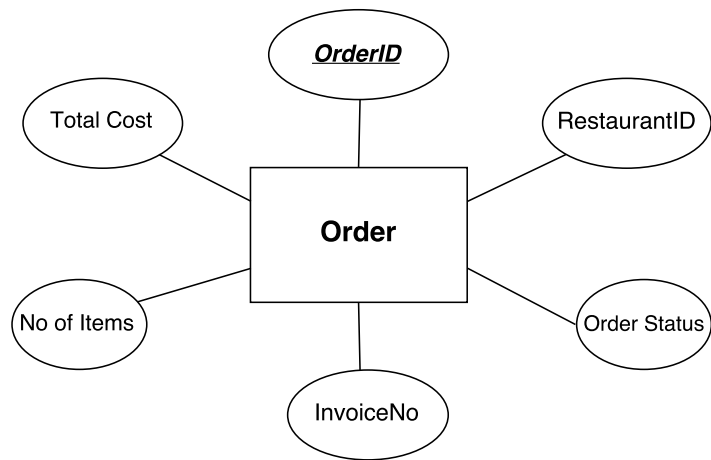
This library is used for the statistical recommendation system (ie) suggesting restaurants to the customers which suits their taste and budget. This system works by taking into account, the customer's previous orders ( by calculating the frequency of the items ordered under a specific category and the average of the bill amount of the previous orders placed by the customer from the website ).

**ENTITY RELATIONSHIP DIAGRAM**



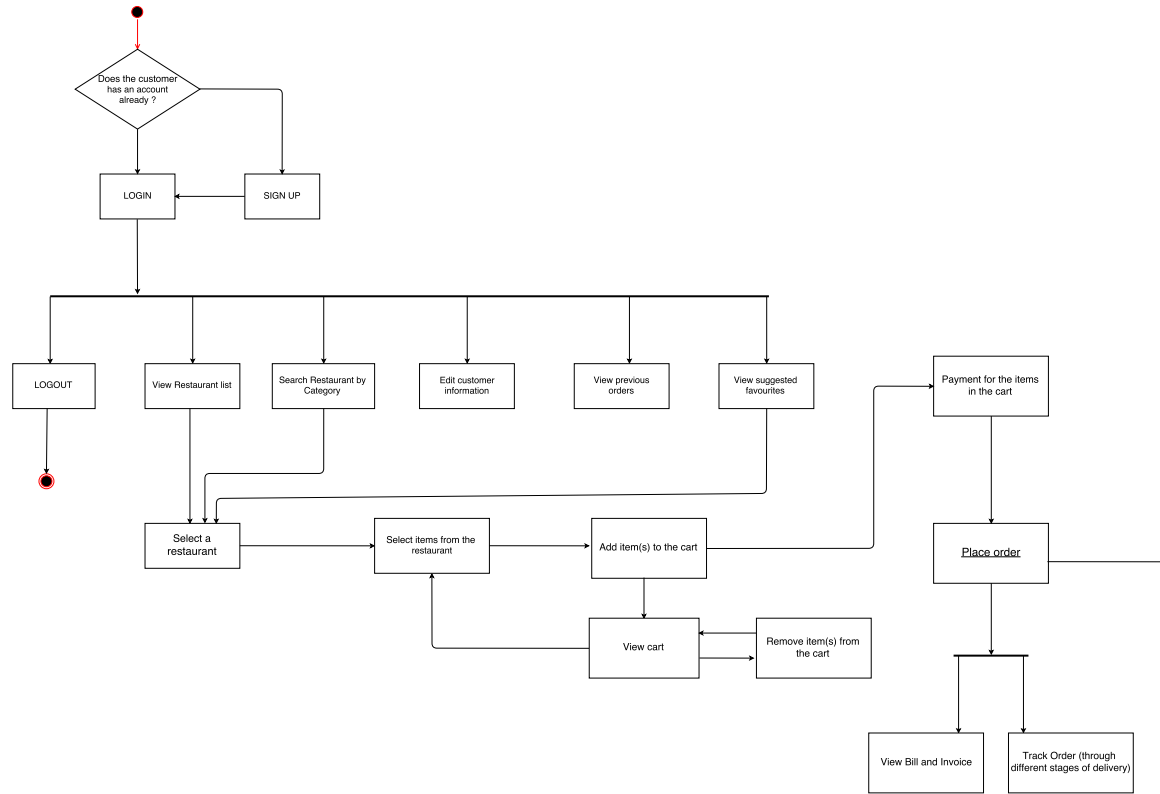
## **DETAILED VIEW OF THE ENTITIES' ATTRIBUTES**



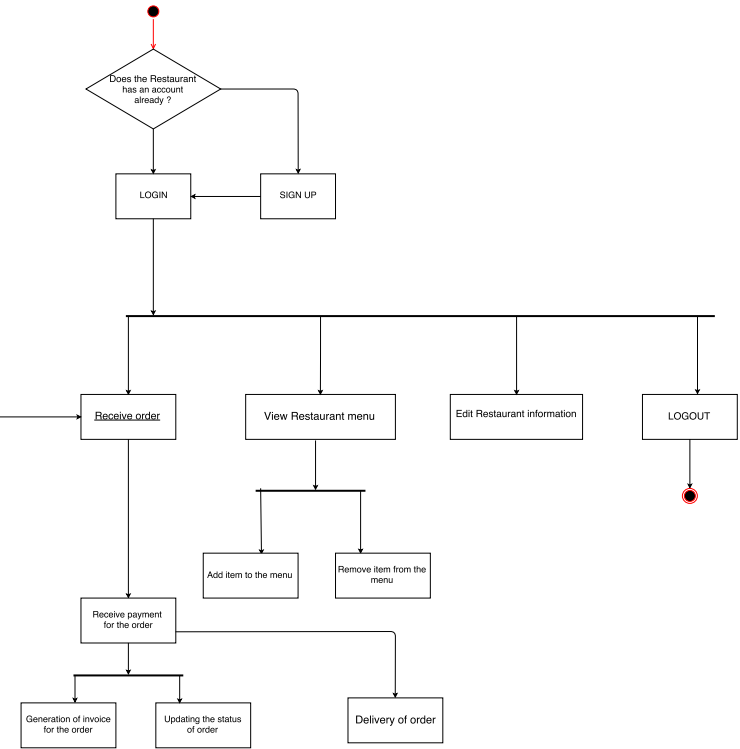


# OVERALL WORKFLOW OF THE SYSTEM

## CUSTOMER



## RESTAURANT

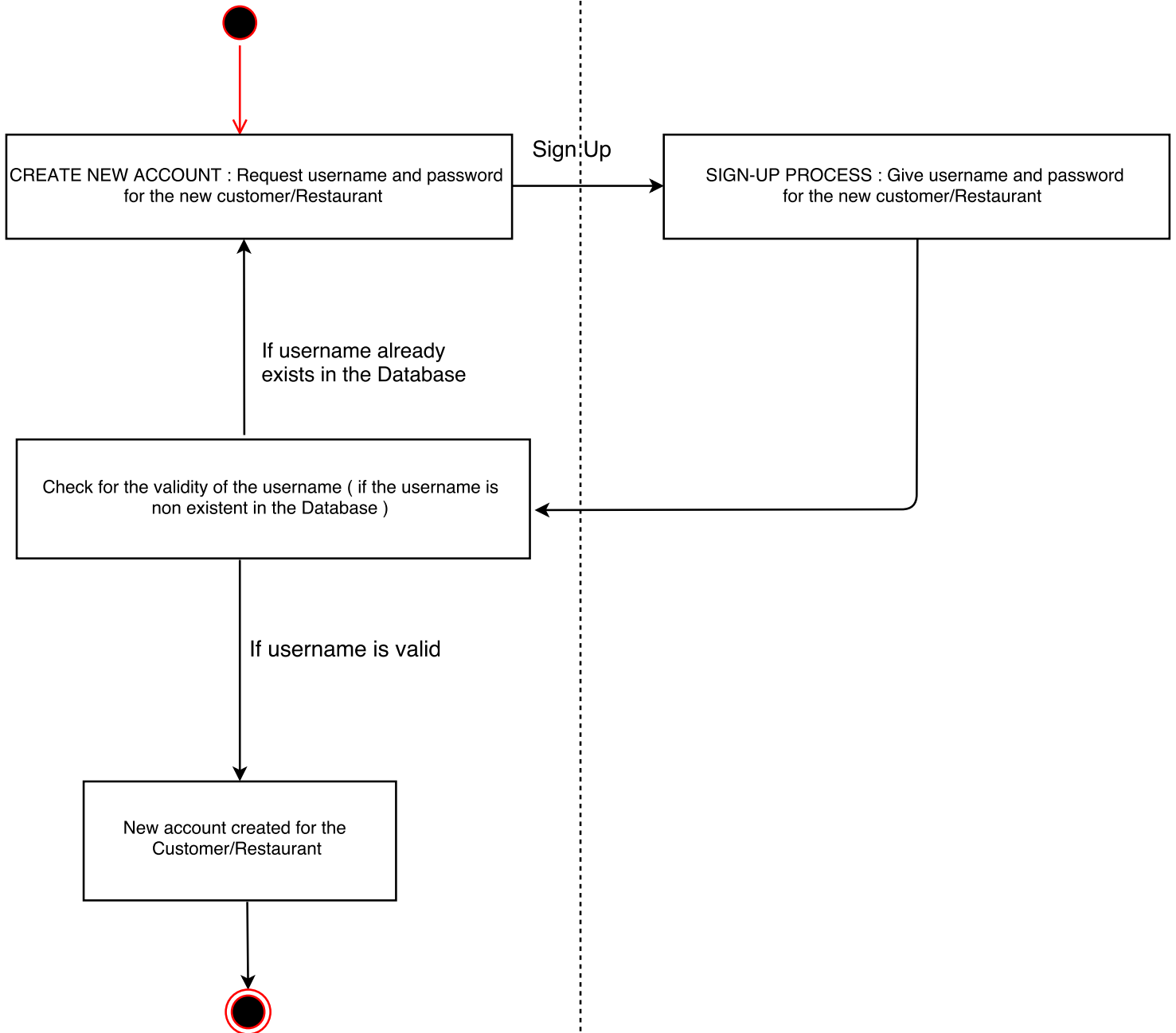




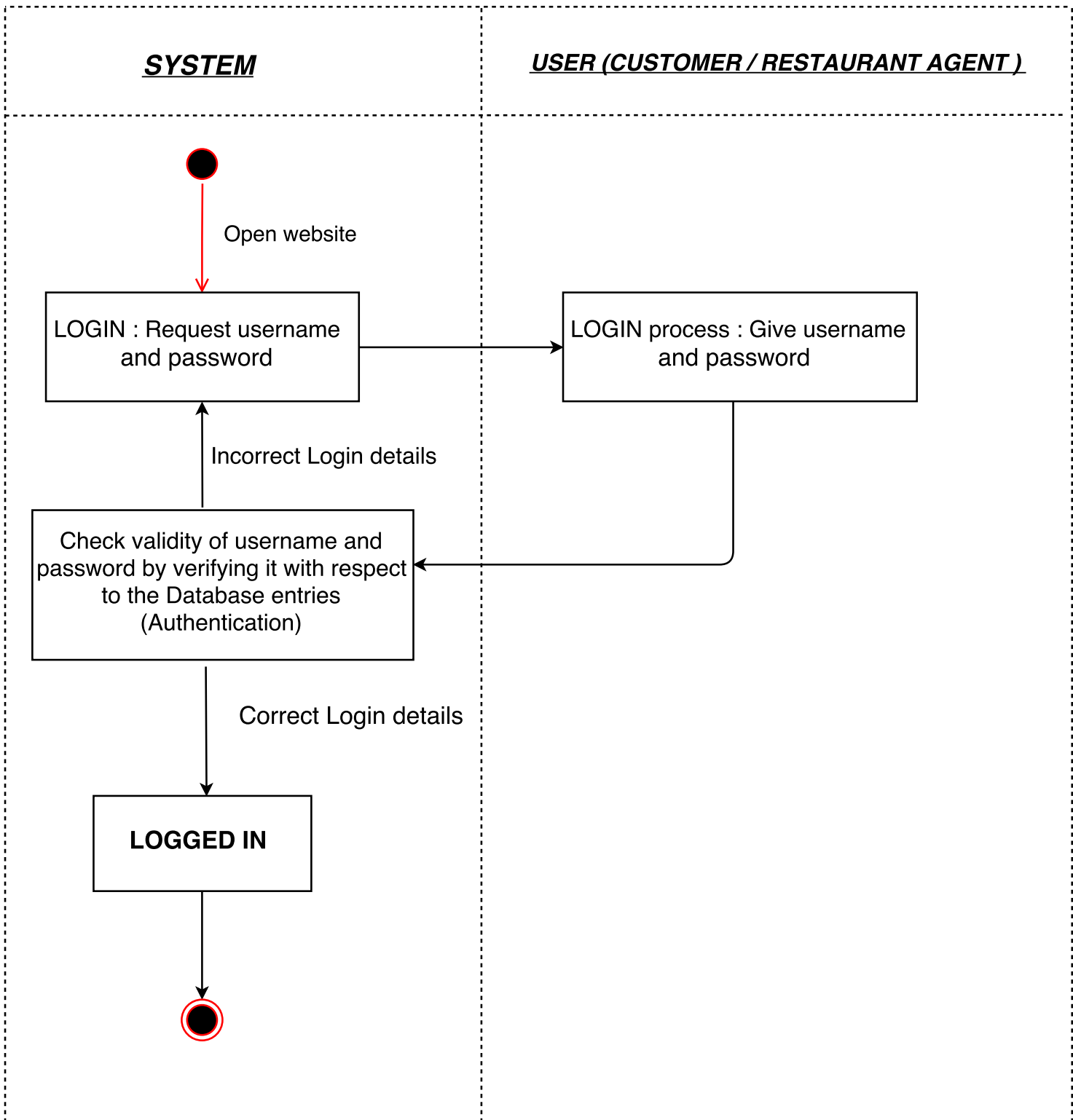
**SIGN UP PAGE ( FOR BOTH CUSTOMERS AND RESTAURANTS )**

**SYSTEM**

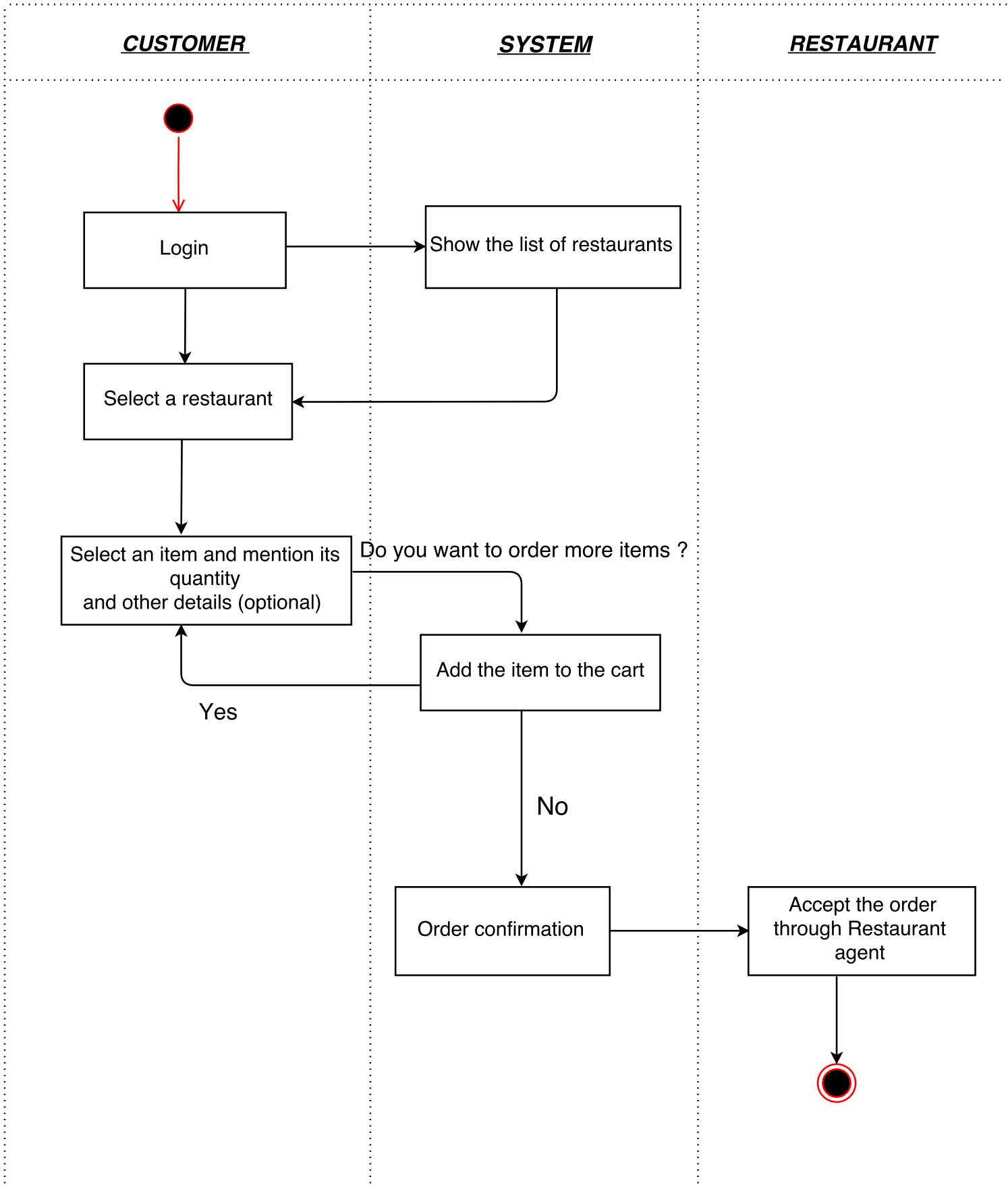
**USER ( CUSTOMER / RESTAURANT )**



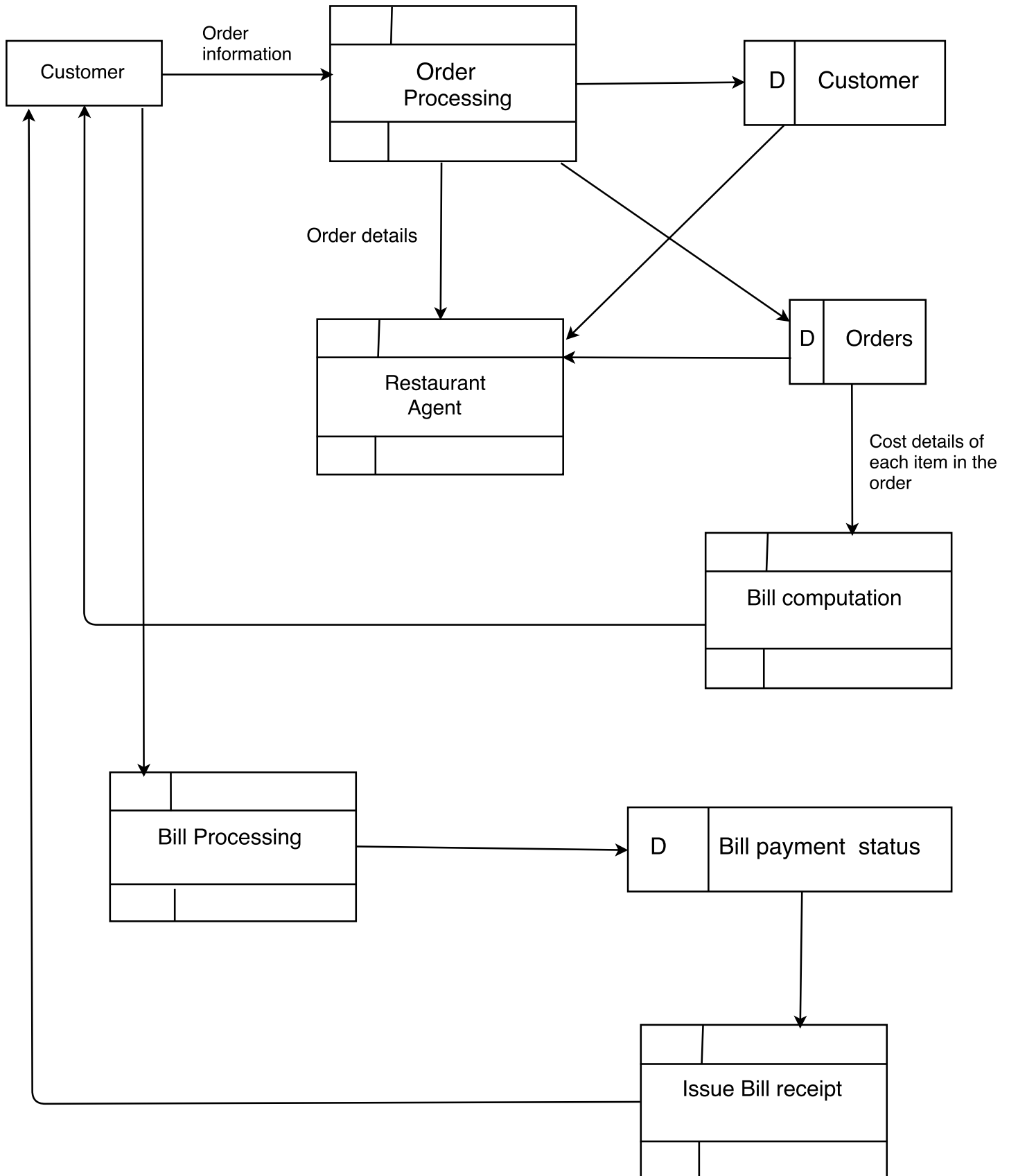
# LOGIN



## **PLACING ORDER**



## **DATAFLOW DIAGRAM**



## **MODULE DIAGRAM**

