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CSE 3001 - SOFTWARE ENIGINEERING

PROJECT REPORT

"ONLINE FOOD DELIVERY SYSTEM"

"FOODCART"

Prepared By

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PROBLEM STATEMENT AND ABSTRACT

The purpose of this project is to develop an Online Food Ordering System. It is a system that enables customer of food to place their order online at any time and any place. The reason to develop the system is due to the issues facing by food industry. These issues are such as peak hour-long queue issues, increase of take away foods than visitors, speed major requisite of food preparation, limited promotion and advertising on current strategy, and quality control of food management issues.

Therefore, this system enhances the speed and standardization of taking the order from the customer and displays it to the staff in the kitchen accordingly. Besides that, it provide a user-friendly web pages and effective advertising medium to the new product of the online food restaurant to the customer with cheaper cost.

Furthermore, it also extends and delivers customer satisfactions especially to the hectic customer or reaching the customer who are constrain of transport to be in food restaurant. At the same time, boost up market share for food restaurant and increase return on investment for the investor. The structured methodologies have been chosen to develop the Online Food Ordering System.

FUNCTIONAL REQUIREMENTS

This section presents the identified functional requirements for Online Food Ordering System.

There are some general functional requirements that need to be overcome. These are :

- A server shall host the system and provide system data processing and storage capability.
- A web application shall provide a customer with all customer system functionality. Users of the web ordering system, namely restaurant customers, must be provided the following functionality:
    - Create an account.
    - Manage their account.
    - Log in to the system.
    - Navigate the restaurant's menu.
    - Select an item from the menu.
    - Customize options for a selected item.
    - Add an item to their current order.
    - Review their current order.
    - Remove an item/remove all items from their current order.
    - Provide delivery and payment details.
    - Place an order.
    - Receive confirmation in the form of an order number.

- The web application will make a customer able to order any type as per their wish and requirements.
- A backend program shall provide a restaurant with all system.
- The backend program enables placing orders and delivery of the product to the customer.

There are some functional customer requirements that need to be overcome. These are :

- A customer shall be able to navigate through the available items in their engaged menu.
- A customer shall be able to remove an item from a pending order.
- A customer shall be able to add an item to an order.
- A customer shall be able to place an order through their engaged menu if it is pending and not empty.
- A customer shall be able to cancel an order through their engaged menu if it is pending and not yet placed.

A customer will also be able to choose their payment mode as per their ease of satisfaction.

NON - FUNCTIONAL REQUIREMENTS

This section presents the identified non - functional requirements for Online Food Ordering System.

Because the design patterns of the Online Food Ordering System are pretty much the standard for a web application, the non-functional requirements of the system are very straightforward. Although written using Microsoft Visual Studio(VS Code), the application is cross-compiled to HTML and JavaScript, along with a PHP backend, all of which are supported by any reasonably well maintained web server, although we used Apache2, and particularly the free XAMPP distribution.

All of the application data is stored in a SQL database, and therefore a SQL server must also be installed on the host computer. As with Apache2, this software is freely available and can be installed and run under most operating systems.

The server hardware can be any computer capable of running both the web and database servers and handling the expected traffic. For a restaurant that is not expecting to see much web traffic, or possibly doing only a limited test run, an average personal computer may be appropriate. Once the site starts generating more hits, though, it will likely be necessary to upgrade to a dedicated host to ensure proper performance. The exact cut-offs will need to be determined through a more thorough stress testing of the system.

Performance Requirements

The server shall be capable of supporting an arbitrary number of active meals/orders, that is, no meals/orders shall be lost under any circumstances.
The server shall be capable of supporting an arbitrary number of active customer payments, that is, no payments shall be lost under any circumstances.

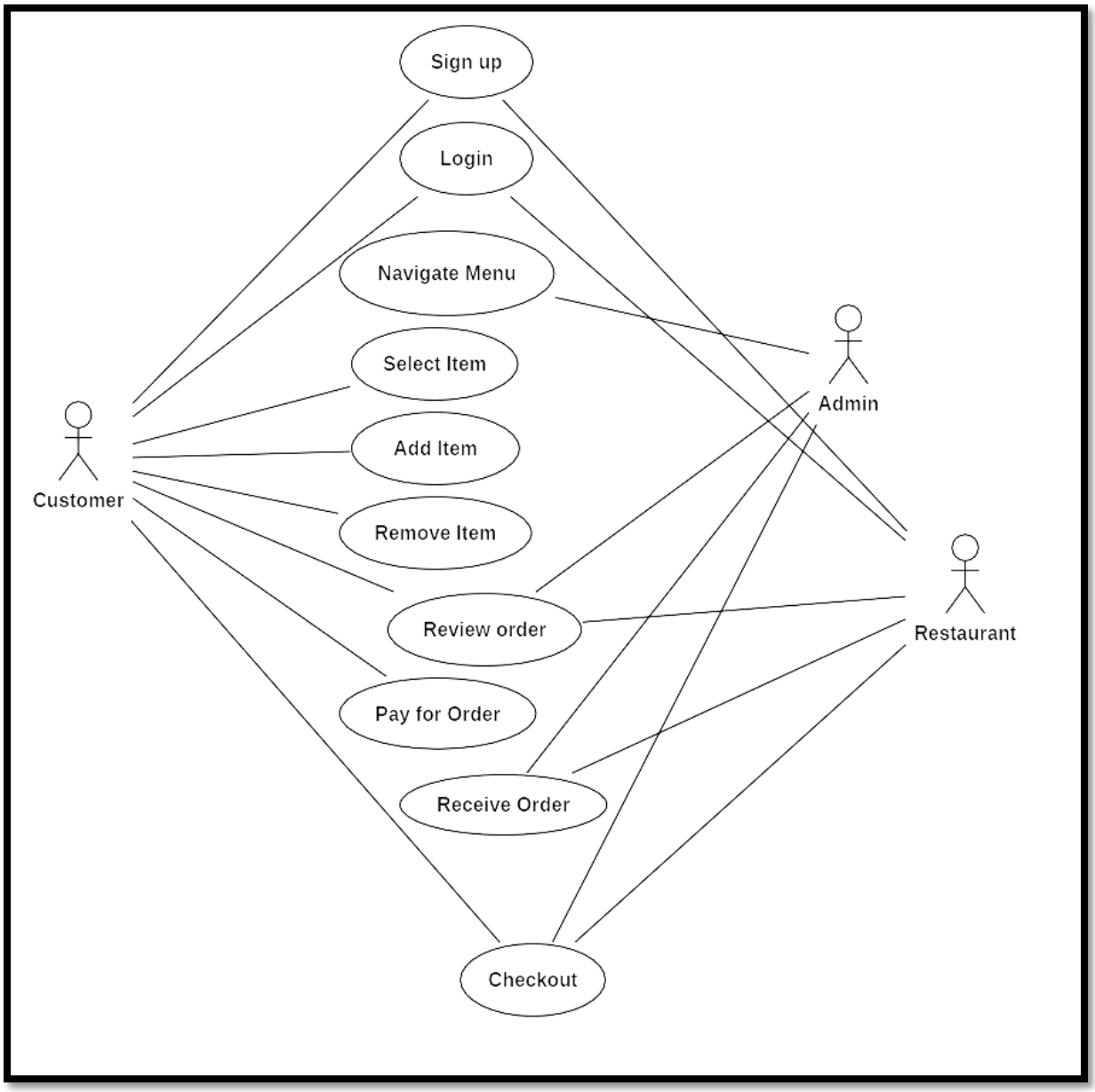
Safety Requirements

The system shall be capable of restoring itself to its previous state in the event of failure (e.g. a system crash or power loss).
The system shall be able to display a menu at all times to facilitate manual order taking should the need arise.

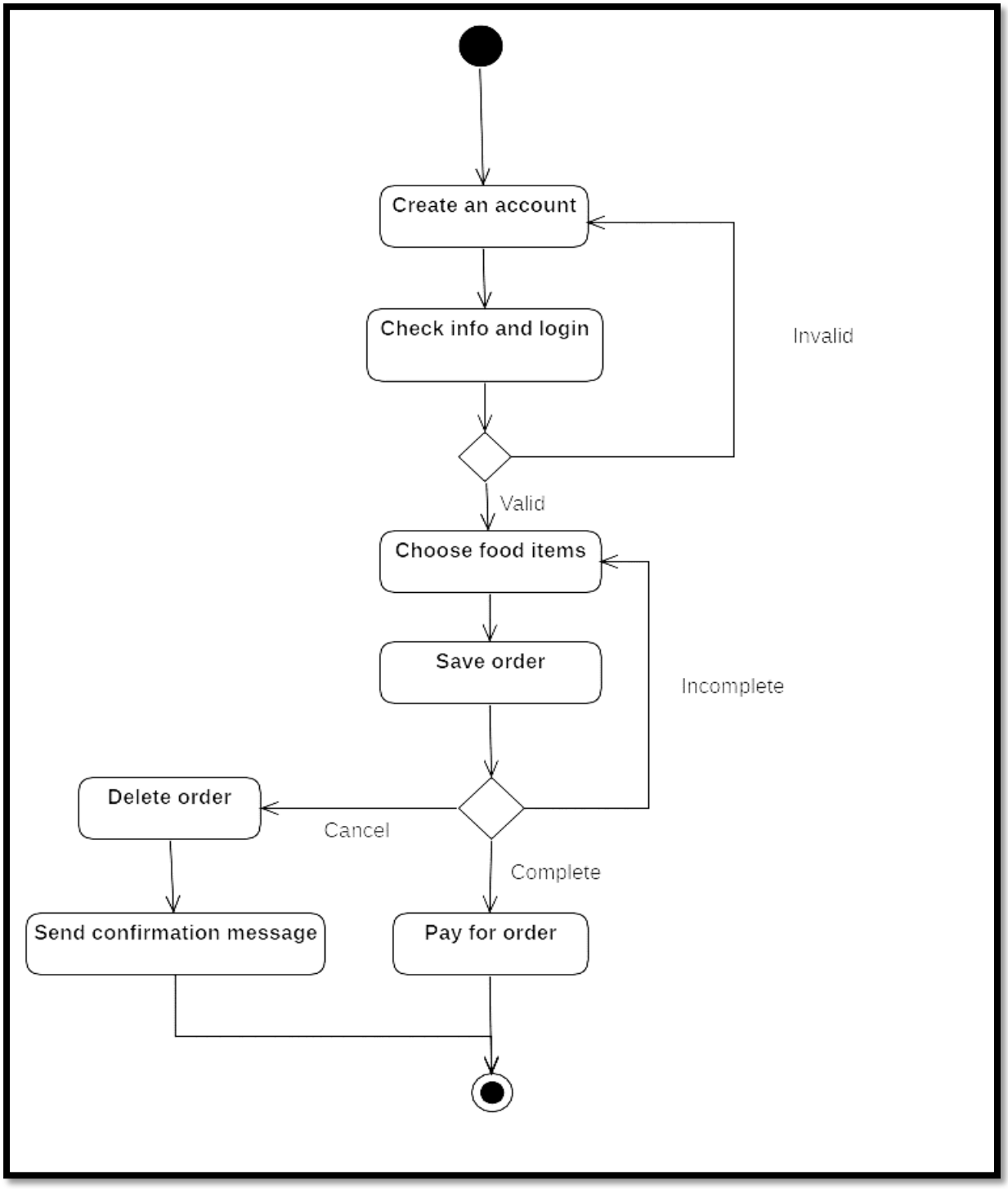
Security Requirements

The system should be able to encrypt all personal details of the customer. The banking information should not be leaked to any other third party.

USE CASE DIAGRAM



ACTIVITY DIAGRAM



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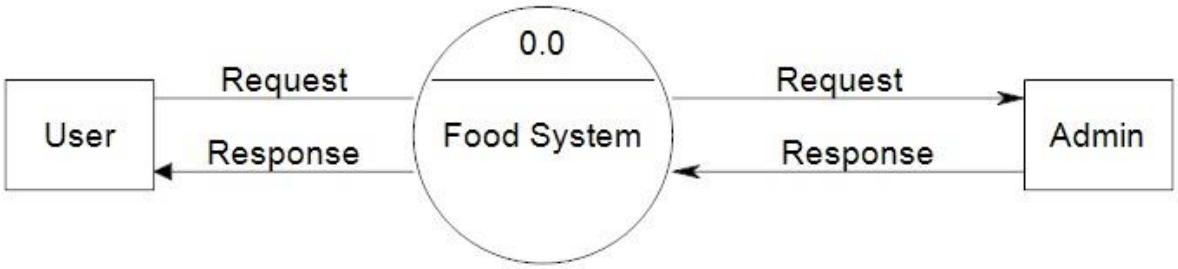

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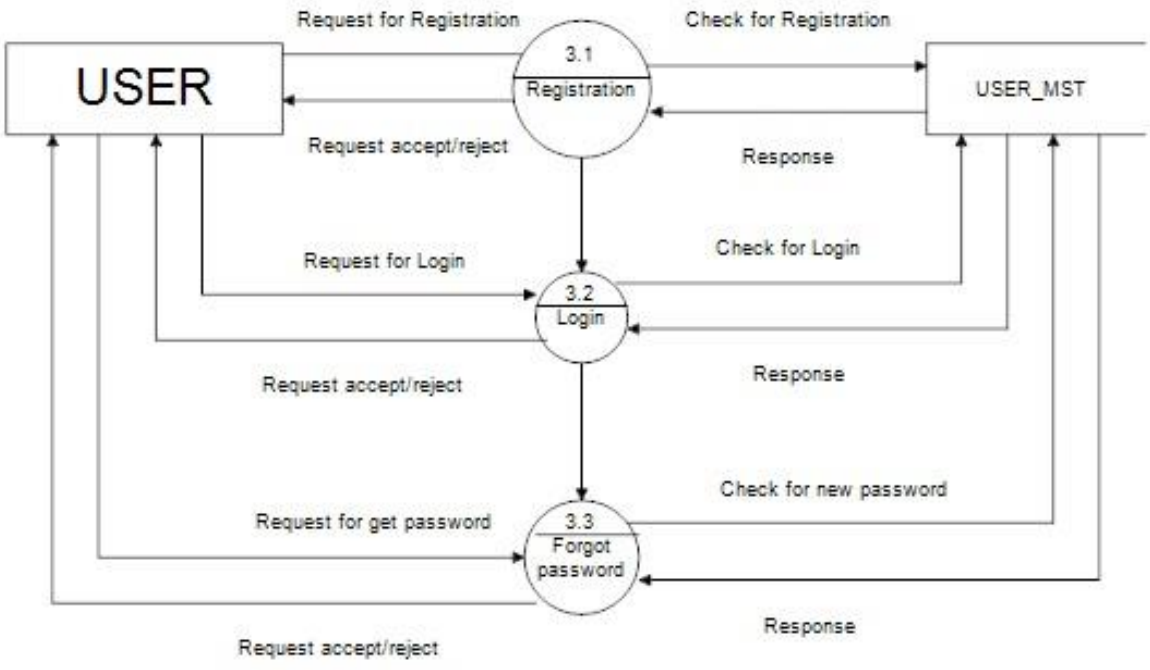

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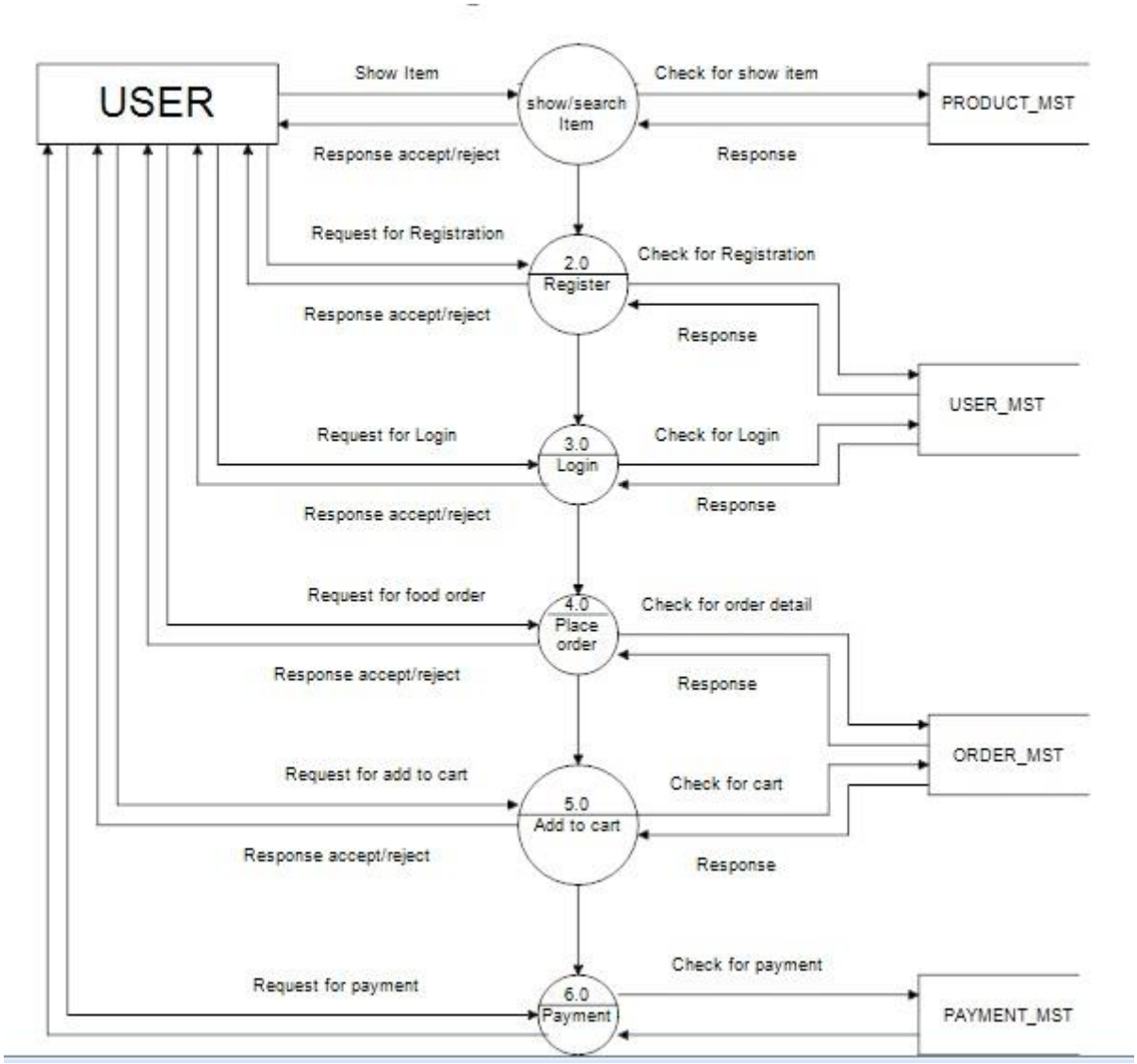
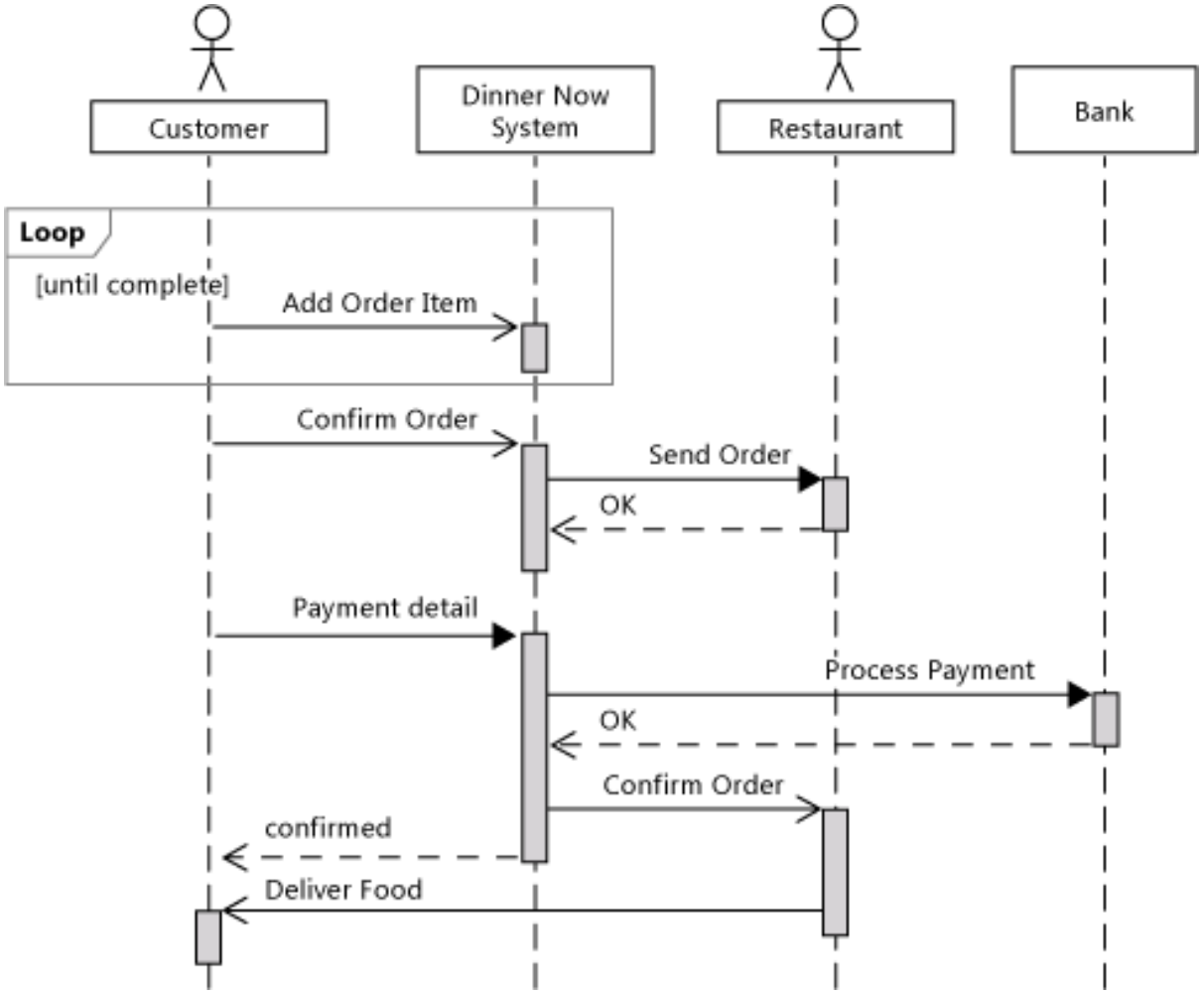
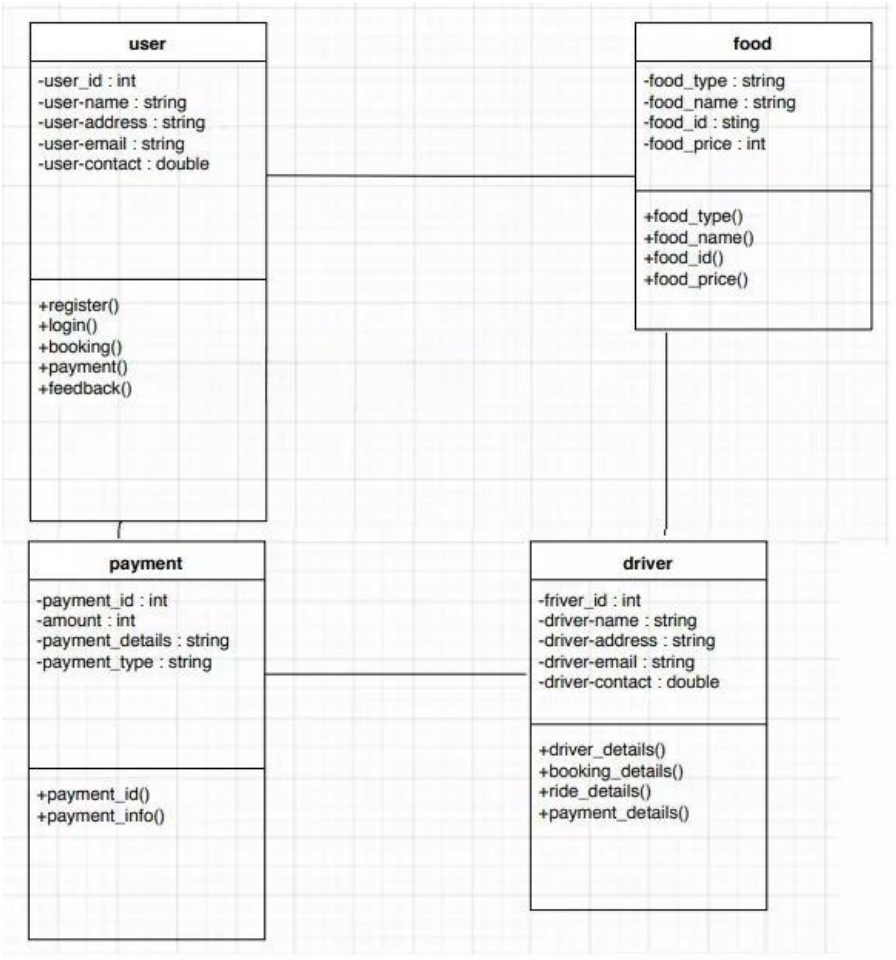


SEQUENCE DIAGRAM



CLASS DIAGRAM

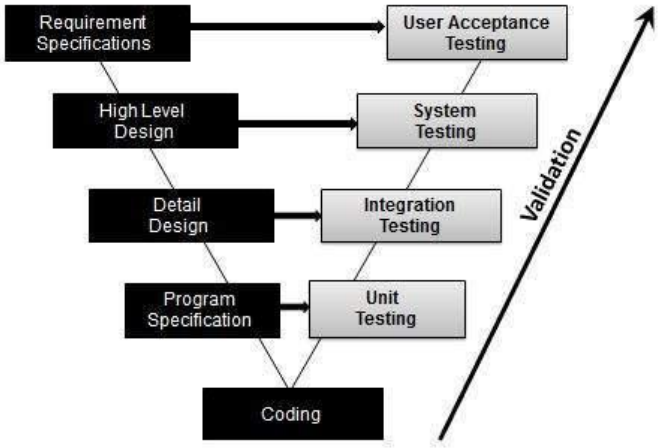


TEST CASES AND VALIDATION TECHNIQUES

TEST CASE ID	TEST CASE DESCRIPTION	TEST CASE INPUT	TEST PROCEDURE	EXPECTED RESULT	ACTUAL OUTPUT
TC_01	Login : Test for an invalid username or password	Username : abc Password : asd	Manually	System shows message as invalid username or password.	System shows a message to signup
TC_02	Login : Test for an invalid username or password	Username : abc Password : asd	Manually	Login successful and redirects to main page	Login is successful

TC_03	Login : Test for forgot password	Click "forget password"	Manually	Page to create new password	Reset password screen appears
TC_04	Login : Test for forgot username	Click "forget username	Manually	Page to create new username	Username is shown to the customer by showing their email id.
TC_05	Request : Test for adding order	Click arrow button or add quantity	Manually	System adds the order with a prompt message	Order is displayed in the cart
TC_06	Request : Test for deleting order	Click on the delete icon	Manually	System removes the selected order	Order in the cart is removed
TC_07	Status : Payment	Click on payment and different payment options available	Manually	Payment panel comletes the payment	Payment page completes verification
TC_08	Status : Place order	Click on place order button to finally complete the purchase	Manually	Page shows message	Page shows message of the placed order

Validation testing can be best demonstrated using V-Model. The Software under test is evaluated during this type of testing.



Unit Testing

Here, by using this testing, we have focused on the functionality of the various methods.

Module Testing

A module is a combination of unit programs. Here, we test the unit programs (5 or 6 programs together) and check where the module programs have the dependency.

Unit Testing

Here, by using this testing, we have focused on the functionality of the various methods.

Sub - System Testing

Then, we combined some modules for preliminary system testing in our project.

System Testing

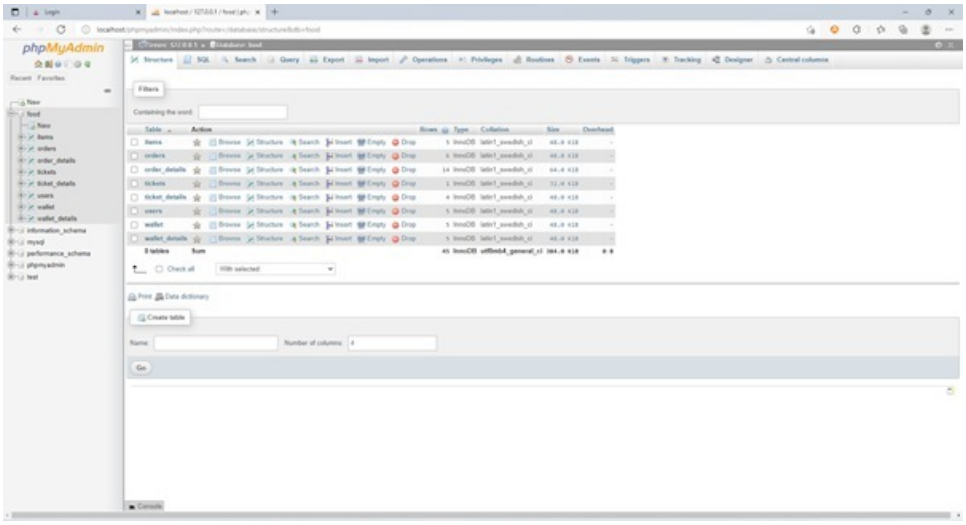
A system is a combination of two or more sub – systems. And, here we tested the entire system as per our requirements.

Acceptance Testing

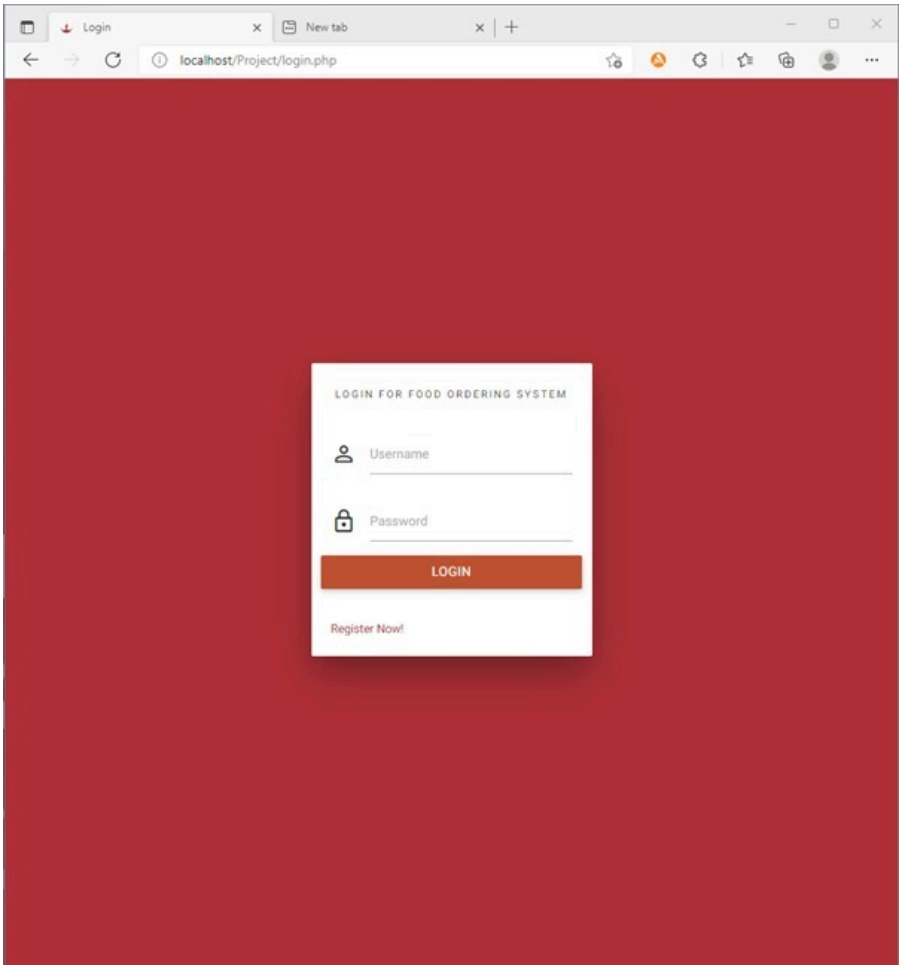
Normally, this type of testing is done to verify if system meets the customer specified requirements. After submitting this project to the users, they tested it and we checked if they were satisfied with it or not through an application form and asked their reviews about the product. It is the system testing done by the customers that determines whether the product is deliverable or not.

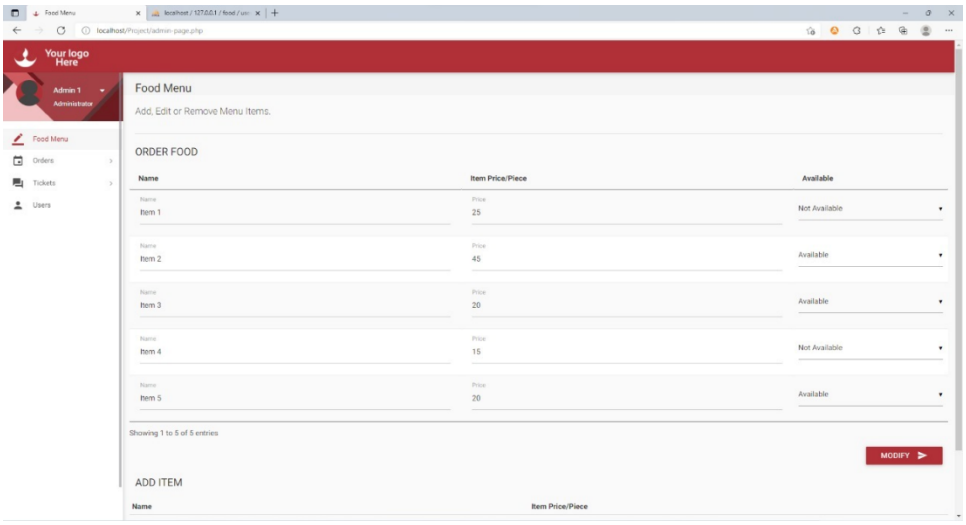
OUTPUTS:

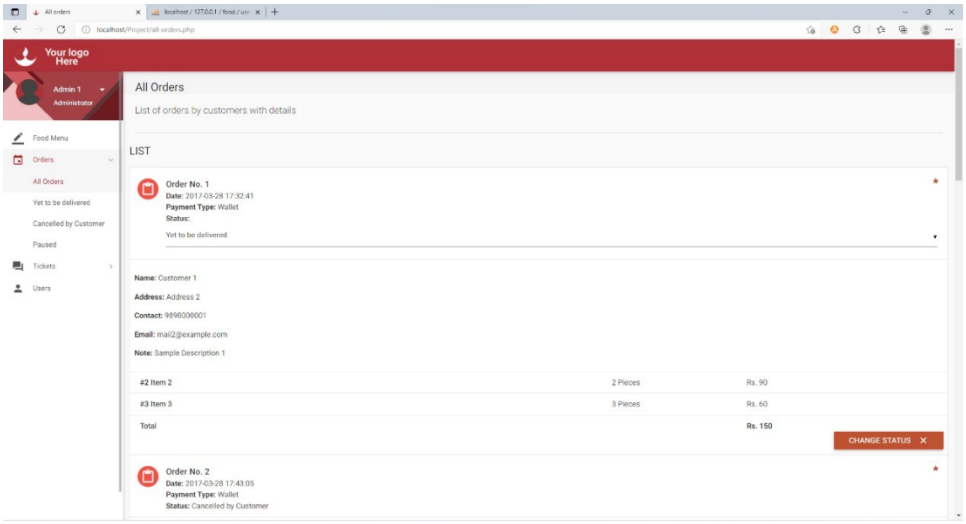
Database:

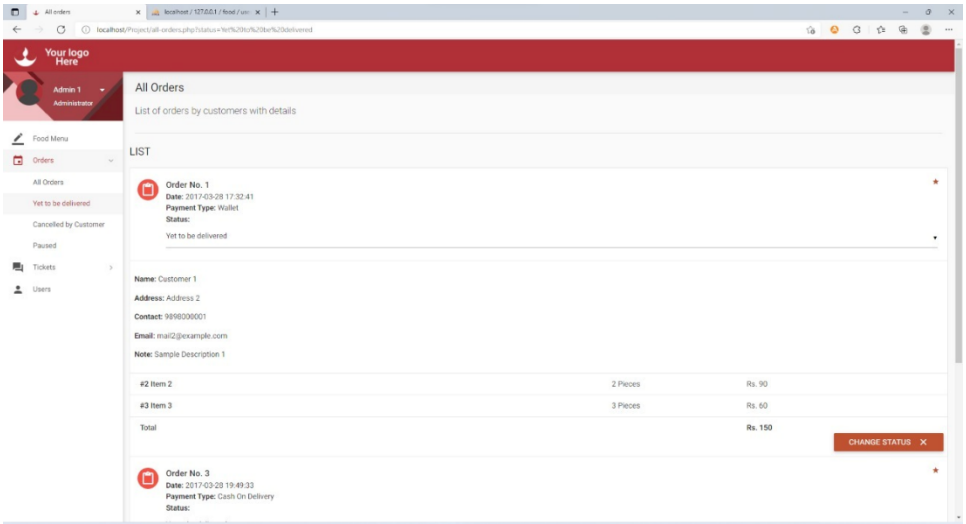


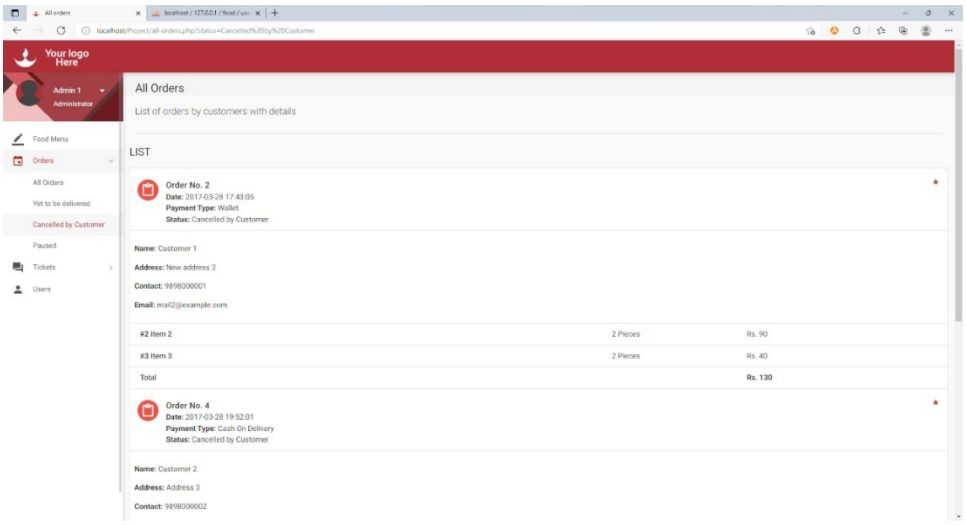
Admin:

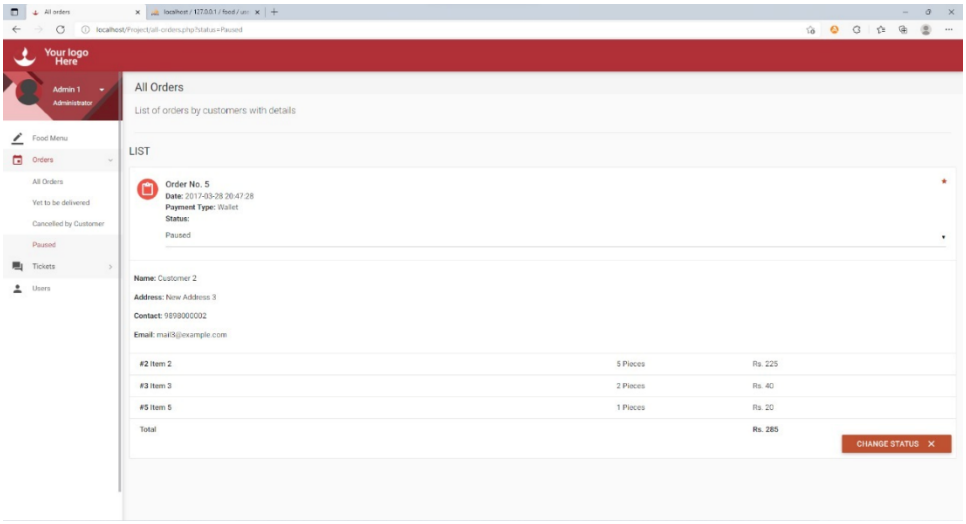


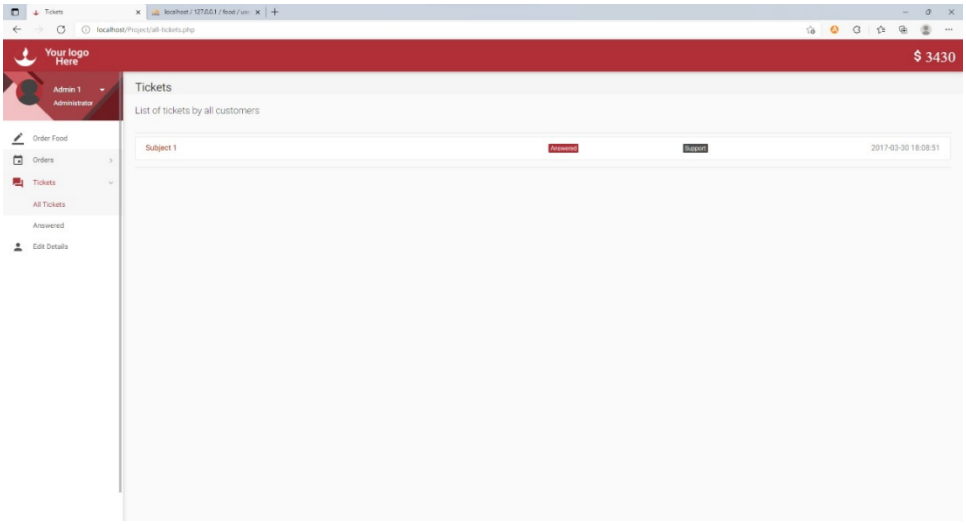

Your logo Here
Admin 1
Administrator
Food Menu
Orders
Tickets
Users
Food Menu
Add, Edit or Remove Menu Items.
ORDER FOOD
Name
Item Price/Piece
Available
Item 1
25
Not Available
Item 2
45
Available
Item 3
20
Available
Item 4
15
Not Available
Item 5
20
Available
Showing 1 to 5 of 5 entries
MODIFY
ADD ITEM
Name
Item Price/Piece

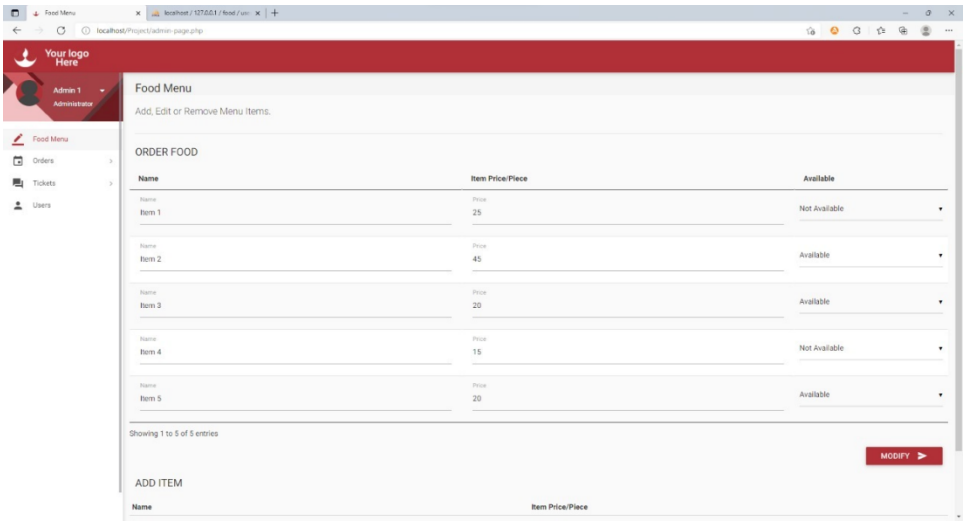

Your logo Here
Admin 1
Administrator
Food Menu
Orders
All Orders
Yet to be delivered
Cancelled by Customer
Paused
Tickets
Users
All Orders
List of orders by customers with details
LIST
Order No. 1
Date: 2017-03-28 17:32:41
Payment Type: Wallet
Status:
Yet to be delivered
Name: Customer 1
Address: Address 2
Contact: 9898000001
Email: mail2@example.com
Note: Sample Description 1
#2 Item 2
2 Pieces
Rs. 90
#3 Item 3
3 Pieces
Rs. 60
Total
Rs. 150
CHANGE STATUS
Order No. 2
Date: 2017-03-28 17:43:05
Payment Type: Wallet
Status: Cancelled by Customer

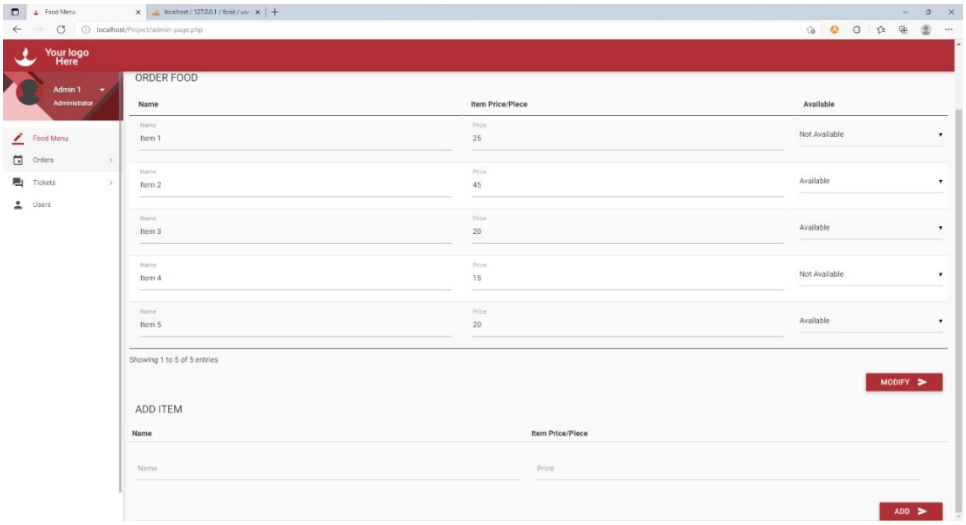

Your logo Here
Admin 1
Administrator
Food Menu
Orders
All Orders
Yet to be delivered
Cancelled by Customer
Paused
Tickets
Users
All Orders
List of orders by customers with details
LIST
Order No. 1
Date: 2017-03-28 17:32:41
Payment Type: Wallet
Status:
Yet to be delivered
Name: Customer 1
Address: Address 2
Contact: 9898000001
Email: mail2@example.com
Note: Sample Description 1
#2 Item 2
2 Pieces
Rs. 90
#3 Item 3
3 Pieces
Rs. 60
Total
Rs. 150
CHANGE STATUS
Order No. 3
Date: 2017-03-28 19:49:33
Payment Type: Cash On Delivery
Status:


Your logo Here
Admin 1
Administrator
Food Menu
Orders
All Orders
Yet to be delivered
Cancelled by Customer
Paused
Tickets
Users
All Orders
List of orders by customers with details
LIST
Order No. 2
Date: 2017-03-28 17:43:05
Payment Type: Wallet
Status: Cancelled by Customer
Name: Customer 1
Address: New address 2
Contact: 9898000001
Email: mail2@example.com
#2 Item 2 2 Pieces Rs. 90
#3 Item 3 2 Pieces Rs. 40
Total Rs. 130
Order No. 4
Date: 2017-03-28 19:52:01
Payment Type: Cash On Delivery
Status: Cancelled by Customer
Name: Customer 2
Address: Address 3
Contact: 9898000002

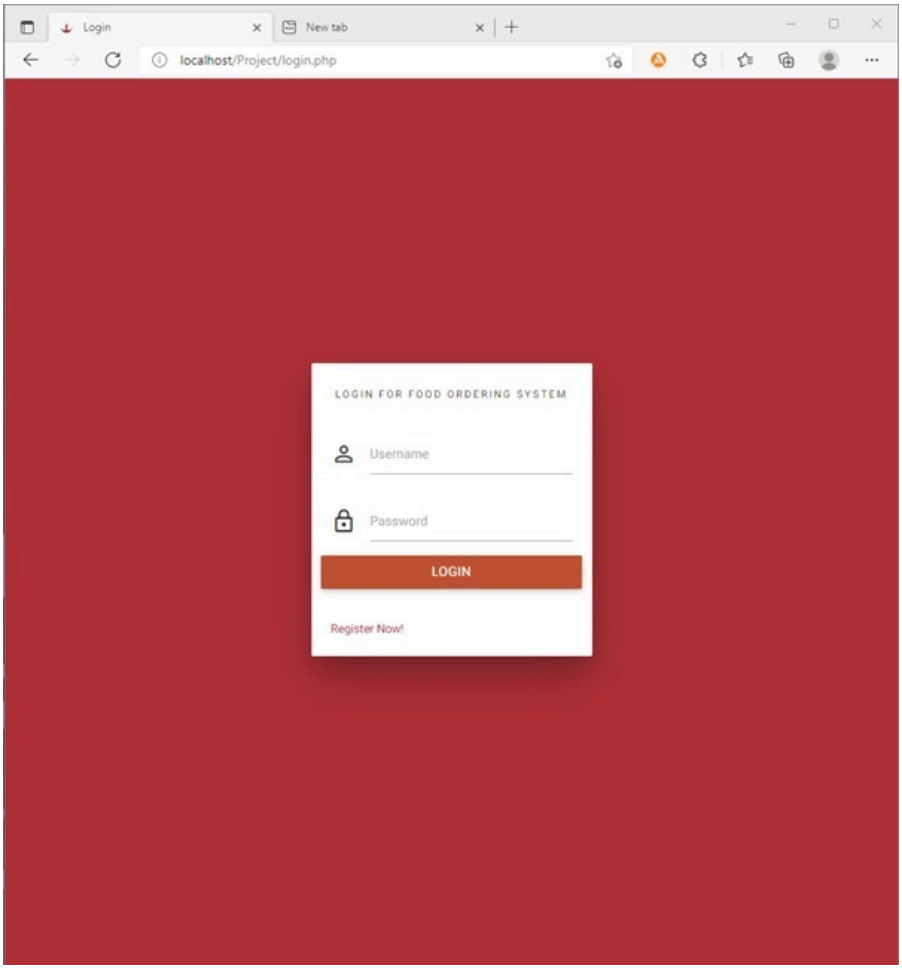

Your logo Here
Admin 1
Administrator
Food Menu
Orders
All Orders
Yet to be delivered
Cancelled by Customer
Paused
Tickets
Users
All Orders
List of orders by customers with details
LIST
Order No. 5
Date: 2017-03-28 20:47:28
Payment Type: Wallet
Status:
Paused
Name: Customer 2
Address: New Address 3
Contact: 9898000002
Email: mail3@example.com
#2 Item 2 5 Pieces Rs. 225
#3 Item 3 2 Pieces Rs. 40
#5 Item 5 1 Pieces Rs. 20
Total Rs. 285
CHANGE STATUS

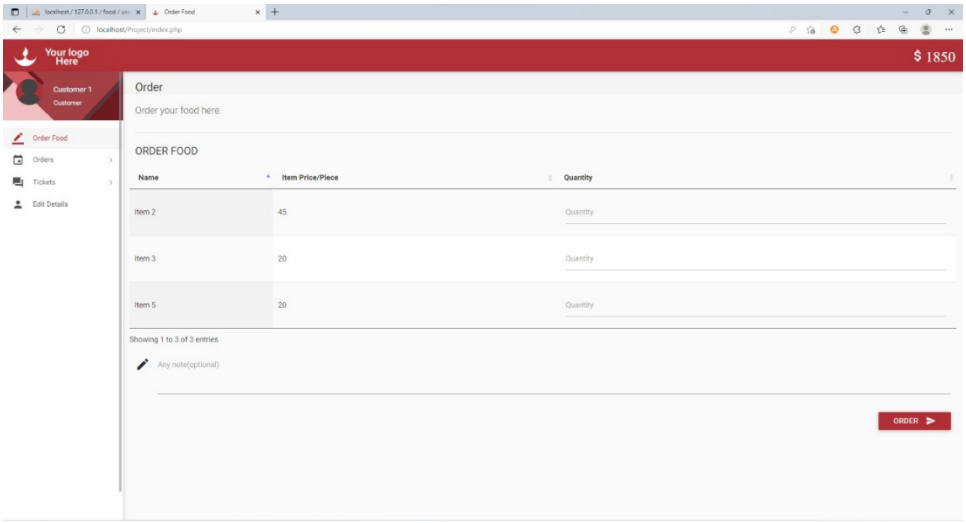

Your logo Here
$ 3430
Admin 1
Administrator
Order Food
Orders
Tickets
All Tickets
Answered
Edit Details
Tickets
List of tickets by all customers
Subject 1
Answered
Support
2017-03-30 18:08:51

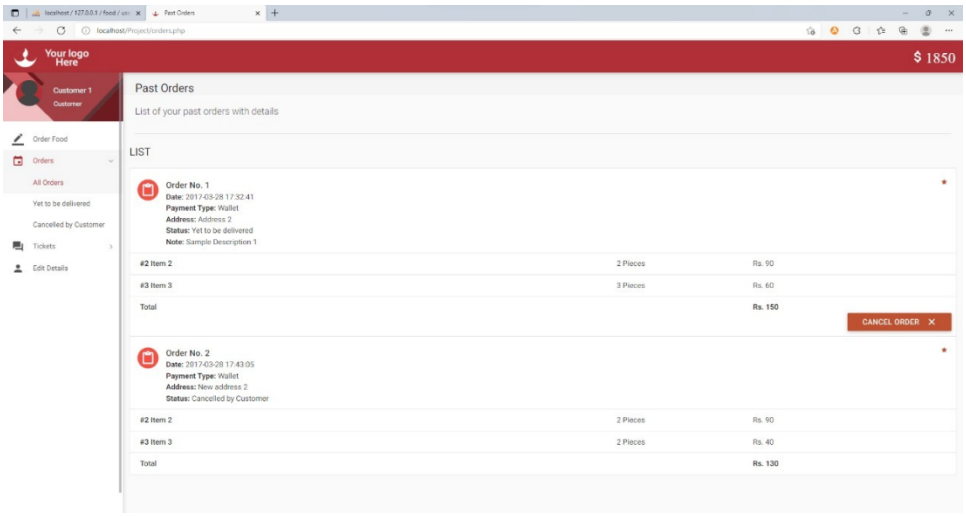

Food Menu
localhost/Project/admin-page.php
Your logo Here
Admin 1
Administrator
Food Menu
Orders
Tickets
Users
Food Menu
Add, Edit or Remove Menu Items.
ORDER FOOD
Name
Item Price/Piece
Available
Item 1
25
Not Available
Item 2
45
Available
Item 3
20
Available
Item 4
15
Not Available
Item 5
20
Available
Showing 1 to 5 of 5 entries
MODIFY
ADD ITEM
Name
Item Price/Piece

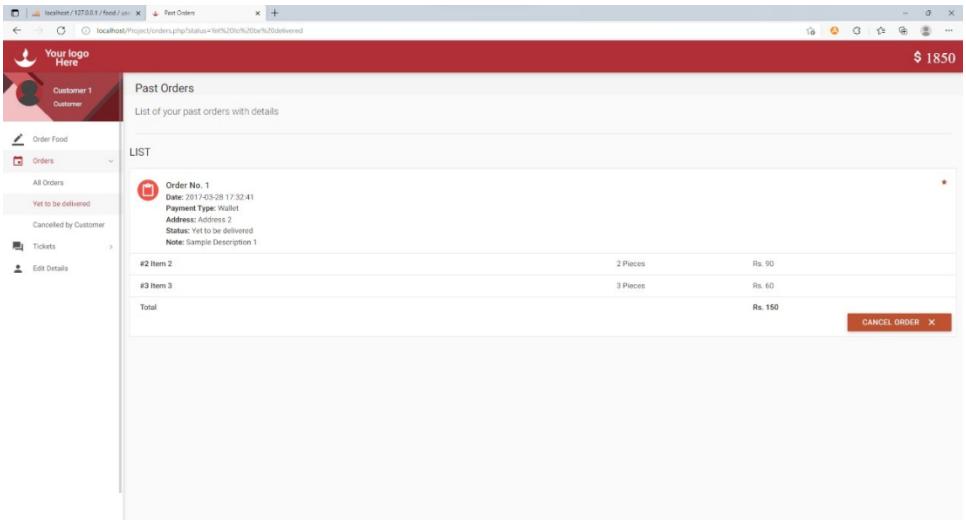

Food Menu
localhost/Project/admin-page.php
Your logo Here
Admin 1
Administrator
Food Menu
Orders
Tickets
Users
ORDER FOOD
Name
Item Price/Piece
Available
Item 1
25
Not Available
Item 2
45
Available
Item 3
20
Available
Item 4
15
Not Available
Item 5
20
Available
Showing 1 to 5 of 5 entries
MODIFY
ADD ITEM
Name
Item Price/Piece
Name
Price
ADD

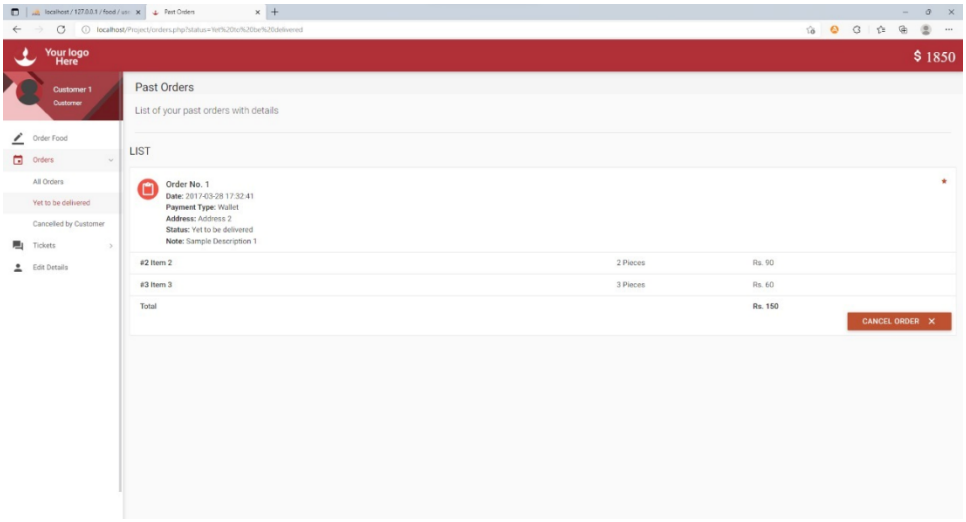
Customer Side:






Your logo Here
$ 1850
Customer 1
Customer
Order Food
Orders
All Orders
Yet to be delivered
Cancelled by Customer
Tickets
Edit Details
Past Orders
List of your past orders with details
LIST
Order No. 1
Date: 2017-03-28 17:32:41
Payment Type: Wallet
Address: Address 2
Status: Yet to be delivered
Note: Sample Description 1
#2 Item 2
2 Pieces
Rs. 90
#3 Item 3
3 Pieces
Rs. 60
Total
Rs. 150
CANCEL ORDER
Order No. 2
Date: 2017-03-28 17:43:05
Payment Type: Wallet
Address: New address 2
Status: Cancelled by Customer
#2 Item 2
2 Pieces
Rs. 90
#3 Item 3
2 Pieces
Rs. 40
Total
Rs. 130


Your logo Here
$ 1850
Customer 1
Customer
Order Food
Orders
All Orders
Yet to be delivered
Cancelled by Customer
Tickets
Edit Details
Past Orders
List of your past orders with details
LIST
Order No. 1
Date: 2017-03-28 17:32:41
Payment Type: Wallet
Address: Address 2
Status: Yet to be delivered
Note: Sample Description 1
#2 Item 2
2 Pieces
Rs. 90
#3 Item 3
3 Pieces
Rs. 60
Total
Rs. 150
CANCEL ORDER


Your logo Here
$ 1850
Customer 1
Customer
Order Food
Orders
All Orders
Yet to be delivered
Cancelled by Customer
Tickets
Edit Details
Past Orders
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Note: Sample Description 1
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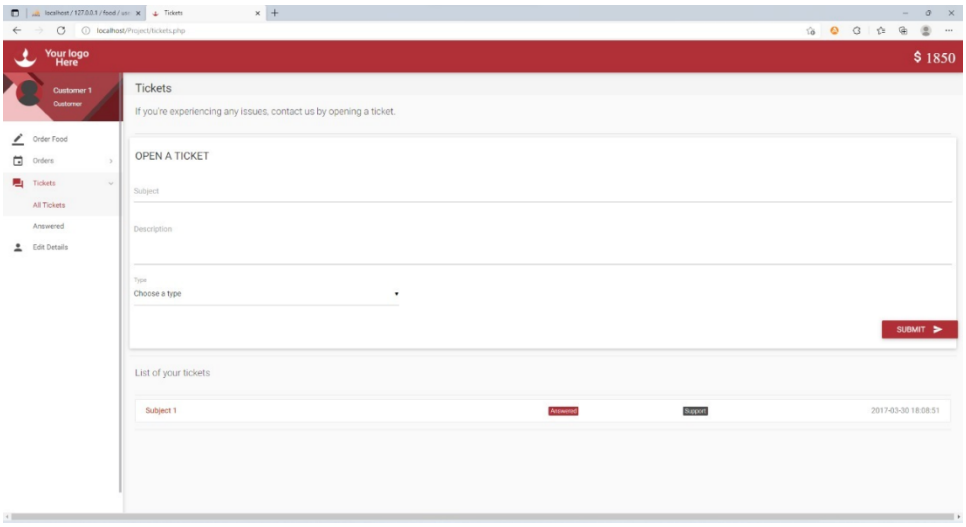
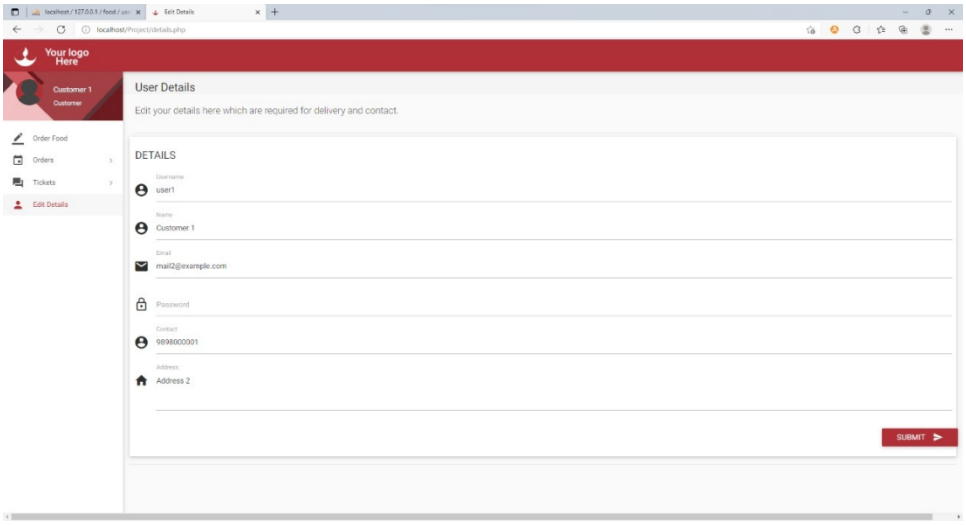
Rs. 90
#3 Item 3
3 Pieces
Rs. 60
Total
Rs. 150
CANCEL ORDER


Your logo Here
$ 1850
Customer 1
Customer
Order Food
Orders
Tickets
All Tickets
Answered
Edit Details
Tickets
If you're experiencing any issues, contact us by opening a ticket.
OPEN A TICKET
Subject
Description
Type
Choose a type
SUBMIT
List of your tickets
Subject 1
Answered
Support
2017-03-30 18:08:51


Your logo Here
Customer 1
Customer
Order Food
Orders
Tickets
Edit Details
User Details
Edit your details here which are required for delivery and contact.
DETAILS
Username
user1
Name
Customer 1
Email
mail2@example.com
Password
Contact
9898000001
Address
Address 2
SUBMIT

THANK YOU