

Veer Narmad South Gujarat University, Surat.

**Department of Information and
Communication Technology**

Project Report

2nd Semester

M.Sc. (Information and Communication Technology)

2 Year Course

Year 2021– 2022

“DS Online Food Ordering System”

Guided By:

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Submitted By:

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Department of Information and Communication Technology

**M.Sc. (Information and Communication Technology)
Programme**

Certificate

This is to certify that Miss. Katrodiya Dhruvi P. with Exam Seat Number: 8634 and Enrollment Number: R21110018000710014 has worked on his/her part time project work entitled DS Online Food Ordering System as a partial fulfillment of the requirements for **2nd Semester - M.Sc. (Information and Communication Technology)**, during the academic Year 2021-2022.

Date :

Place : Dept. of ICT, VNSGU, Surat.

Internal Project Guide
M.Sc.(I.C.T.) 2 nd Semester
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Acknowledgement

Success in such a comprehensive project cannot be achieved single-handled. It is team effort that sails the ship to the coast. So, we would like to express our sincere thanks to all the dignitaries who were involved in making this project a great joy and turning it into successful piece of work.

We would like to take opportunity to thank our college J.P. Dawer Institute of Information Science & Technology, Surat for giving us this tremendous opportunity to work in the realtime project.

Dr. Parul Patel, our project coordinator, has been very prudent to us throughout our college studies. She is the person who has been giving direction to our work and the shape to our imagination. We express our regards to her from the core of our heart.

we also like to thank to Dr. Dhaval Joshi Sir who are always ready to give best guidance, give solutions whenever required.

We would also like to acknowledge all our friends and colleagues, team members for their help and encouragement from time to time. The constant support and encouragement of our friends deeply appreciate. The project indeed gave challenging and exhilarating experience in designing and developing the required system.

Finally, we would like to thank our Parents for their support throughout the project. We owe a special debt to our family & friends for their supports blessing and encouragement for me.

Regards,
Katrodiya Dhruvi P.(8634)
Maniya Shilpa P.(8640)

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1. Introduction

1. Customer Profile :

1.1 Current System – about the existing system (manual or s/w)

Existing System

- The current system is totally manual.
- Maintain all data records in on paper.
- Due to manually process, it requires more time for completion of any work.
- Lots of time consumed to the requires is difficult and time consuming.
- Manual system is takes more time to compete any task.
- This system require more human resource to run the system.
- Require infrastructure to operate the system
- People need to come at shop for order food.
- View past reports task is very tadius.

Current System

- This System required less time for processing.
- Reduce paper work and paper cost.
- Reduce the infrastructure cost.
- Easily generate and maintain the reports
- Various details have to be providing to the management at any time.
- Better Security.
- The System require less human resource.

1.2 Customer Detail

- **Project Title :** DS Online Food Ordering System
- **Objective :** An online food ordering system can be defined as software that allows restaurant businesses to accept and manage orders placed over the internet. Online ordering systems generally consists of 2 main components. First is a website or mobile app for hungry customers to view the restaurant's dishes and place an online order. Second is an admin management interface for the restaurants to receive and manage the customer's orders.
- **Front End Tools :** Asp.net(C#, MVC)
- **Back End Tools :** Microsoft SQL Server Management Studio 2018
- **Other Tools :** HTML5, CSS and BOOTSTRAP4
- **Institute :** J.P Dawer Institute of Information Science And Technology, VNSGU, Surat.
- **Time Duration :** 2 Months
- **Guided By :** Dr. Parul Patel

2 Proposed System

2.1 Scope

- Scope in Online Food Ordering System This project aimed at developing an online food ordering system which can be used in small places, and medium cities firstly and then on a large scale. It is developed to help restaurants to simplify their daily operational and managerial task as well as improve the dining experience of customers.
- And also helps restaurant develop healthy customer relationships by providing good services.
- The system enables staff to let update and make changes to their food and beverage list information based on the orders placed and the orders completed.

2.2 Objective

The general objectives of the study is to develop a reliable, convenient and accurate Ordering System.

The study has the following specific objectives:

- To develop a system that will surely satisfied the customer service.
- To design a system able to accommodate huge amount of orders at a time.
- To evaluate its performance and acceptability in terms of security, user-friendliness, accuracy and reliability.
- To improve the communication between the client and the server and minimize the time of ordering.

One of the main objectives of a restaurant to ensure customer satisfaction.

- To automatically compute the bill.

The system will also automatically calculate and displays the final bill so the bills will ready to print without having any error because the information for that item is already inserted.

2.3 Advantages

Running an online food ordering system adds flexibility to the business, which will ultimately increase sales and profits.

Easier ordering process – People love to boss around there orders. When the companies are introducing apps or website for there business on the internet, no more need for human interaction with the customer. People can choose and customize accordingly.

-Easy, fast, and comfortable

-Higher customer spend:

-Increased customer loyalty:

-Safer and healthier

-1. Makes the ordering process easier

Traditionally, people had to make calls to place orders or drive to the restaurants for a take-out, then wait for the food to be prepared and delivered. Sometimes, placing an order on the phone means that there could be mistakes in order. Clearly, these aren't really the best solutions to order food from restaurants especially for people with busy lifestyles.

The best solution is switching over to online ordering

2.. Efficient customer and order management

An online ordering system for Restaurants helps enhance the customer-restaurant relationship by providing end to end Customer Relationship Management (CRM) system.

2.4 Limitation – things that are not there, but could be achieved

While there are many advantages to the online food ordering system, there are also some disadvantages to online food ordering systems. They are

- price
- Limited menu
- Quality of food may be suffer
- Food may get cold

3. Environment Specification

3.1 Hardware & Software Requirements

The efficient hardware and software configuration required to run the system is as suggested below . The configuration suggested is adequate same functionality or higher configuration wills always be better.

Type	Description
RAM	8 GB
Microprocessor	Intel Core Processor i3
Operating System	Microsoft Windows 10
Browser	Google Chrome, Mozilla Firefox, Internet Explorer
Front End	ASP.NET(C# , MVC)
Back End	Microsoft SQL Server 2018
Software	Microsoft Visual Studio 2022, SQL Server 2018

3.2 Development Description

Systems development is the process of defining, designing, testing, and implementing a new software application or program. It could include the internal development of customized systems. In online food system there are three modules first is Admin , Second is User or Customer, Third is Restaurant. Admin is a responsible person who operate the whole system. Admin has rights to add, delete, modify category , item and all other information regarding to online food ordering system.

4. System Planning

4.1 Feasibility Study

The measure of how beneficial or practical the development of informant system will be to an organization . Along this topic feasibility is measured . So far taking the feasibility study and feasibility analysis during the development of the project Online Food Ordering System we have studied on the following four major categories of feasibility study .

4.1.1 Operational Feasibility Operational feasibility is the measure of how well the project will support the customer and the service provider during the operational phase . It answers the question , " Is the project feasible to operate or not ? "

4.1.2 Technical Feasibility It measures the feasibility of the particular technical solution and the availability of technical resource and expertise . Technical feasibility looks at what is practical and reasonable . It mainly addresses their major issues .

- Is the proposed technology or solution practical ?
- Do we currently possess the necessary technology and technical expertise ?

4.1.3 Schedule Feasibility It is the measure of how reasonable the project time table is or the deadline is reasonable or not . During the lack of time or the time become mandatory , we must finish the project within a given time period . It mainly addresses

- Can the project really be completed in the given period of time ?

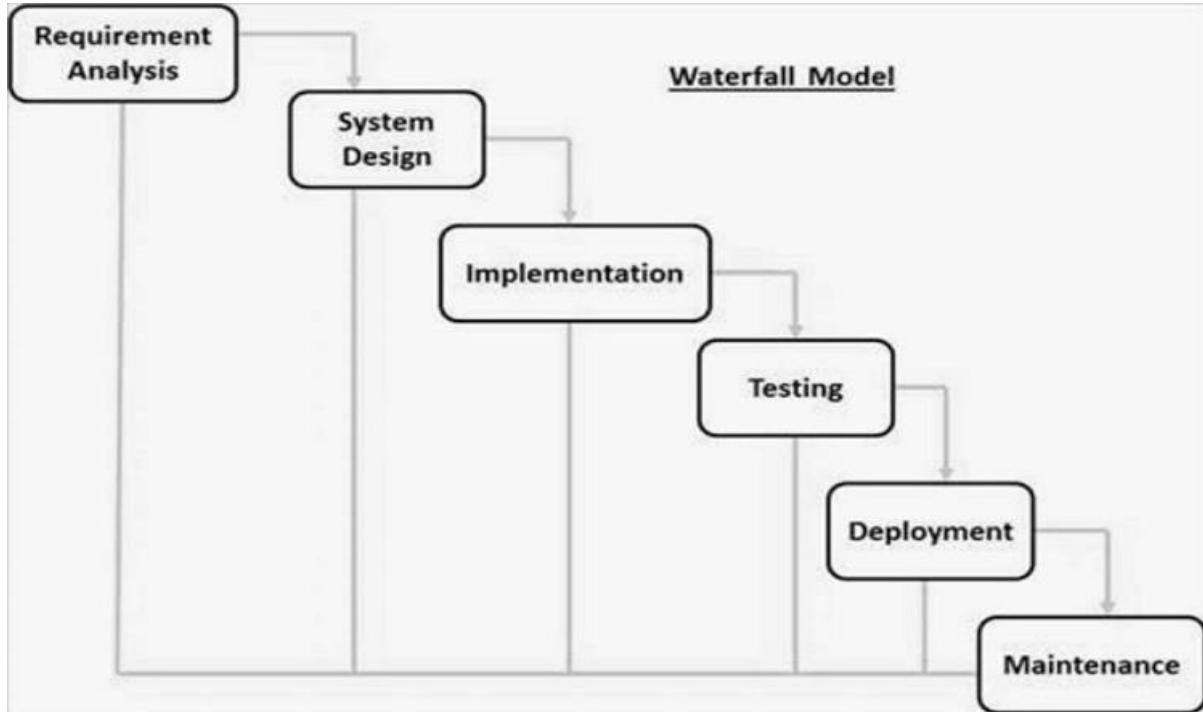
4.1.4 Economic Feasibility It is the measure of the cost - effectiveness of a project , which is often called cost - benefit analysis . As long as the end - users requirements and alternative technical solution have been identified , we can identify the raw cost weight and benefit of each alternative .

During the development of Online Food Ordering System , we have tried to address all these feasibility analysis phases seriously . That's why we think , our project will succeed properly .

4.2 Software Engineering Model

Waterfall approach was first SDLC Model to be used widely in Software Engineering to ensure success of the project. In "The Waterfall" approach, the whole process of software development is divided into separate phases. In this Waterfall model, typically, the outcome of one phase acts as the input for the next phase sequentially.

The following illustrate
on is a representation of the different phases of the Waterfall Model.

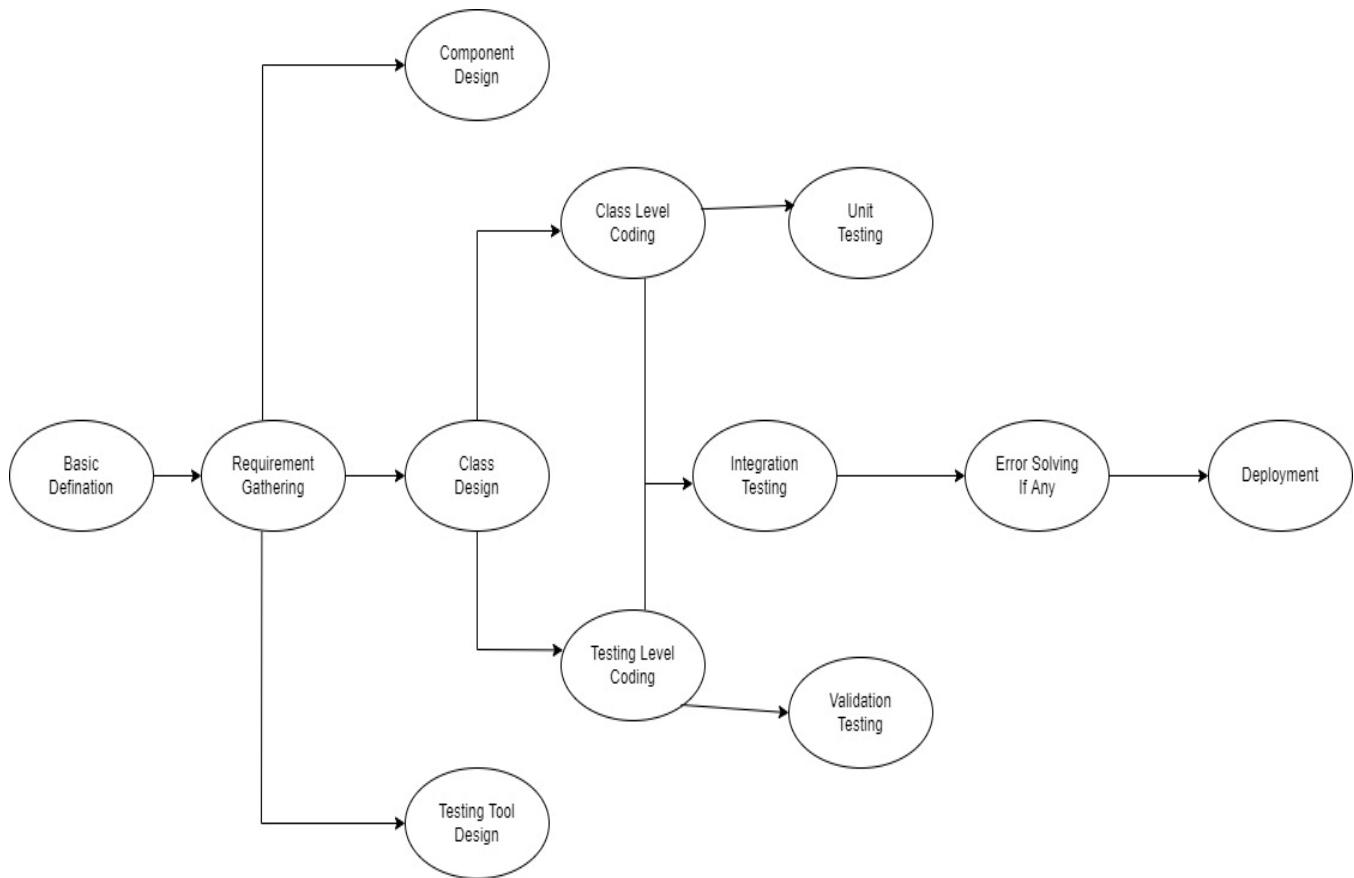


4.3 Risk Analysis

Risk Analysis is very essential for software testing. In software testing, risk analysis is the process of identifying risks in applications and prioritizing them to test. A risk is a potential for loss or damage to an organization from materialized threats. Risk Analysis attempts to identify all the risks and then quantify the severity of the risks. A threat as we have seen is a possible damaging event. If it occurs, it exploits vulnerability in the security of a computer based system.

4.4 Project Schedule

4.4.1 Task Dependency



4.4.2 Timeline Chart

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Date	4	11	18	25	6	11	18	24	1	5	8	10	13	16	
Month	April				May				June						
Activity															
Further Analysis															
Learning Process															
Design															
Coding and Testing															
Documentation															
Final Documentation															

5. System Analysis

5.1 Detailed SRS

Actors :-

- Admin
- Restaurant
- Customer
- Visitor

❖ Admin Panel (Functionality) :-

- The admin will add, upgrade, remove ,search and view the restaurant
- Admin can add ,update ,delete , view city and state
- Admin can add ,update ,remove ,view and search in Category (Like :- Italian, Gujarati, Chinese, etc....)
- View all the customers
- Admin can view Customer Feedback
- Admin can view date wise selling report

❖ Restaurant Panel (Functionality) :-

- The restaurant will be able to operate after the admin add the restaurant
- Restaurant can view the order
- Add, update ,remove food item from the menu
- Update price for a given food item
- Update additional information (description , image, etc.) for a given food item
- The restaurant will be able to see the customer who made the payment
- View all the customers
- Can see which customer's order status
- Manage order status (pending, cancelled, completed, processing, ongoing)
- View all reviews given by customer's
- Restaurant can view date wise selling report

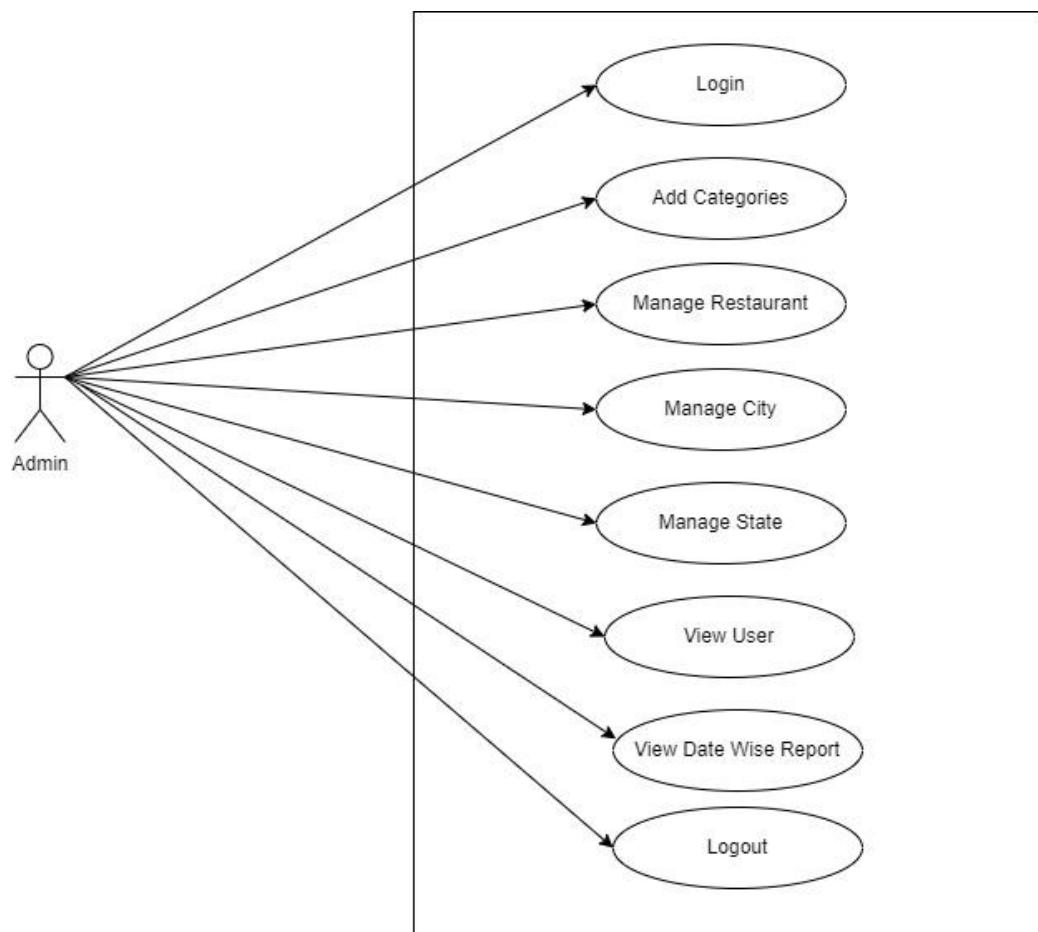
❖ Customer (Functionality) :-

- Login into the system
- View all the restaurants
- View all the category wise menu
- Add a review in menu item
- Add a feedback in system
- Will select the restaurant of his choice
- Select one or multiple item from the menu list
- Select the item you want to add to the cart
- Then order the selected item
- Give a payment for particular order
- View the order status
- Receive an invoice

5.2 UML Diagram

5.2.1 Use Case Diagram

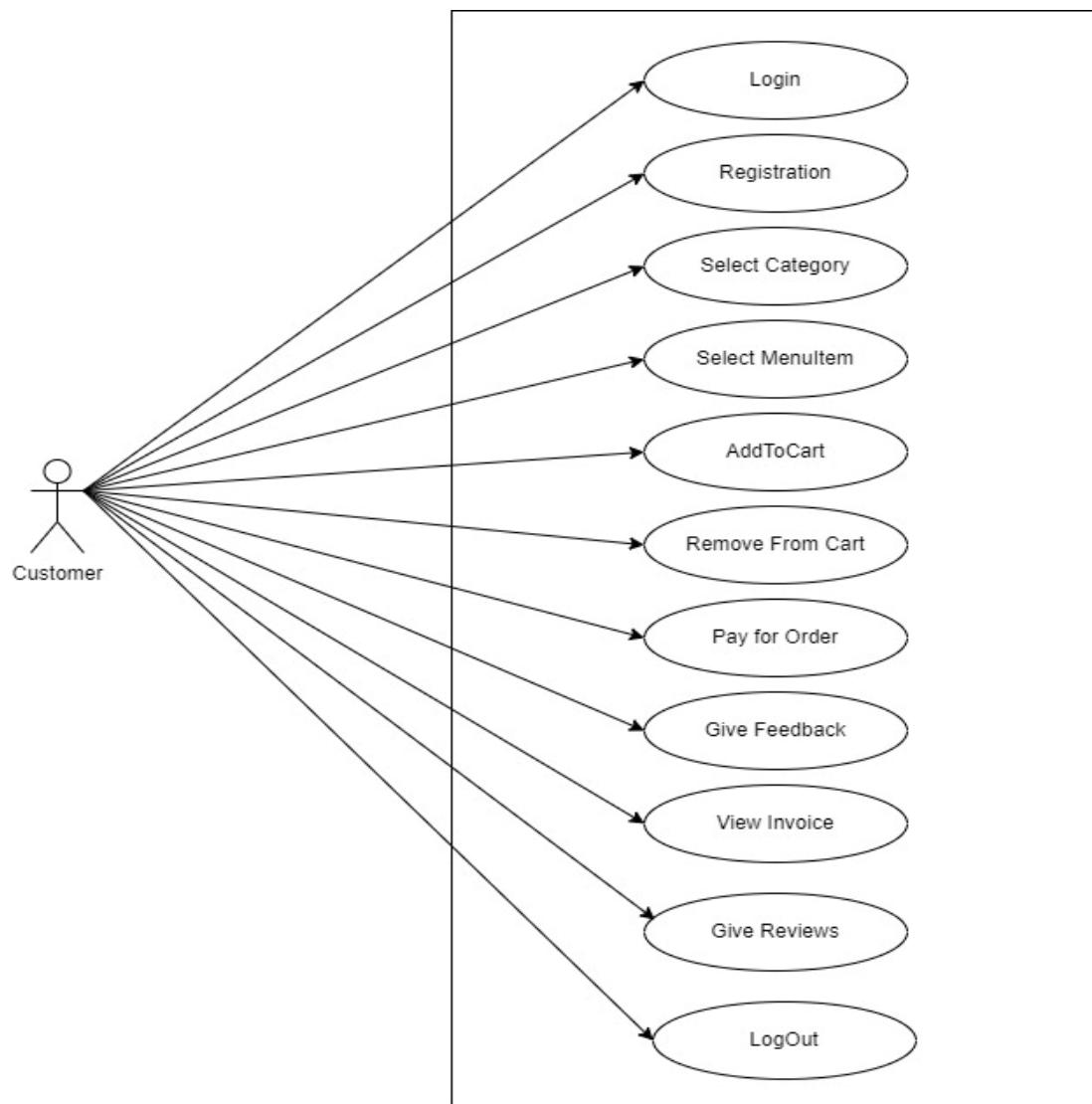
Admin Side



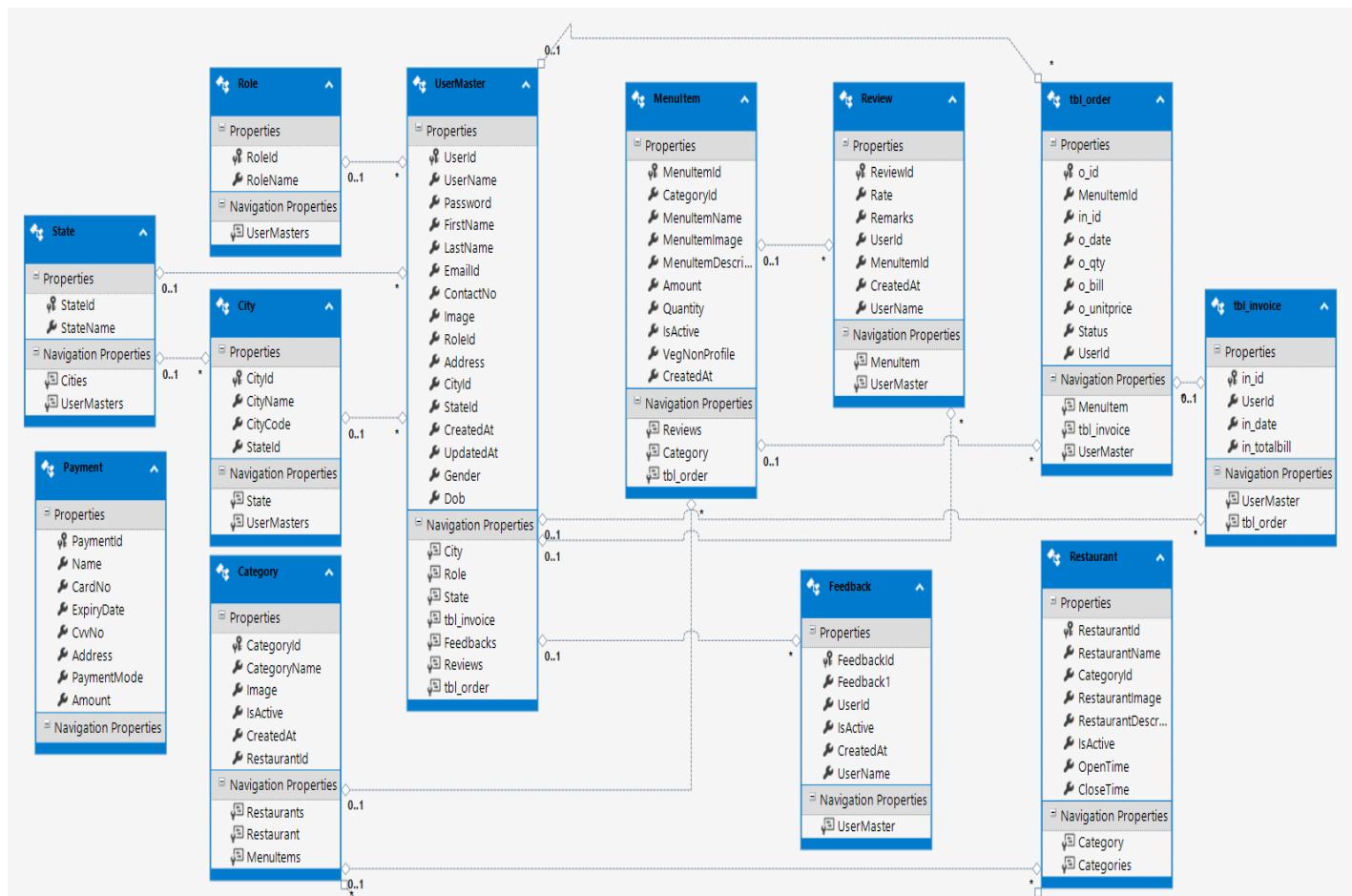
Restaurant Side



Customer Side

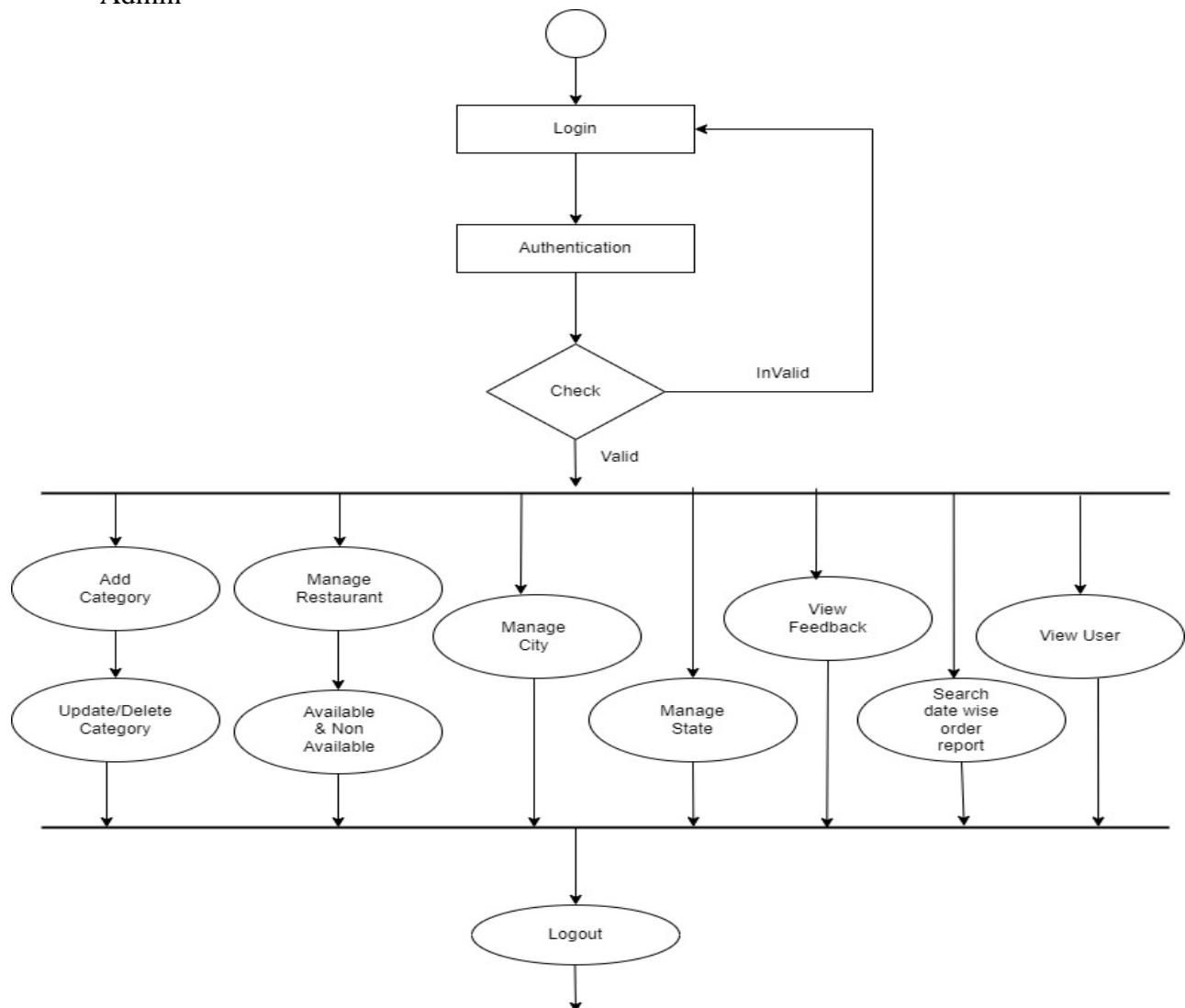


5.2.2 Class Diagram

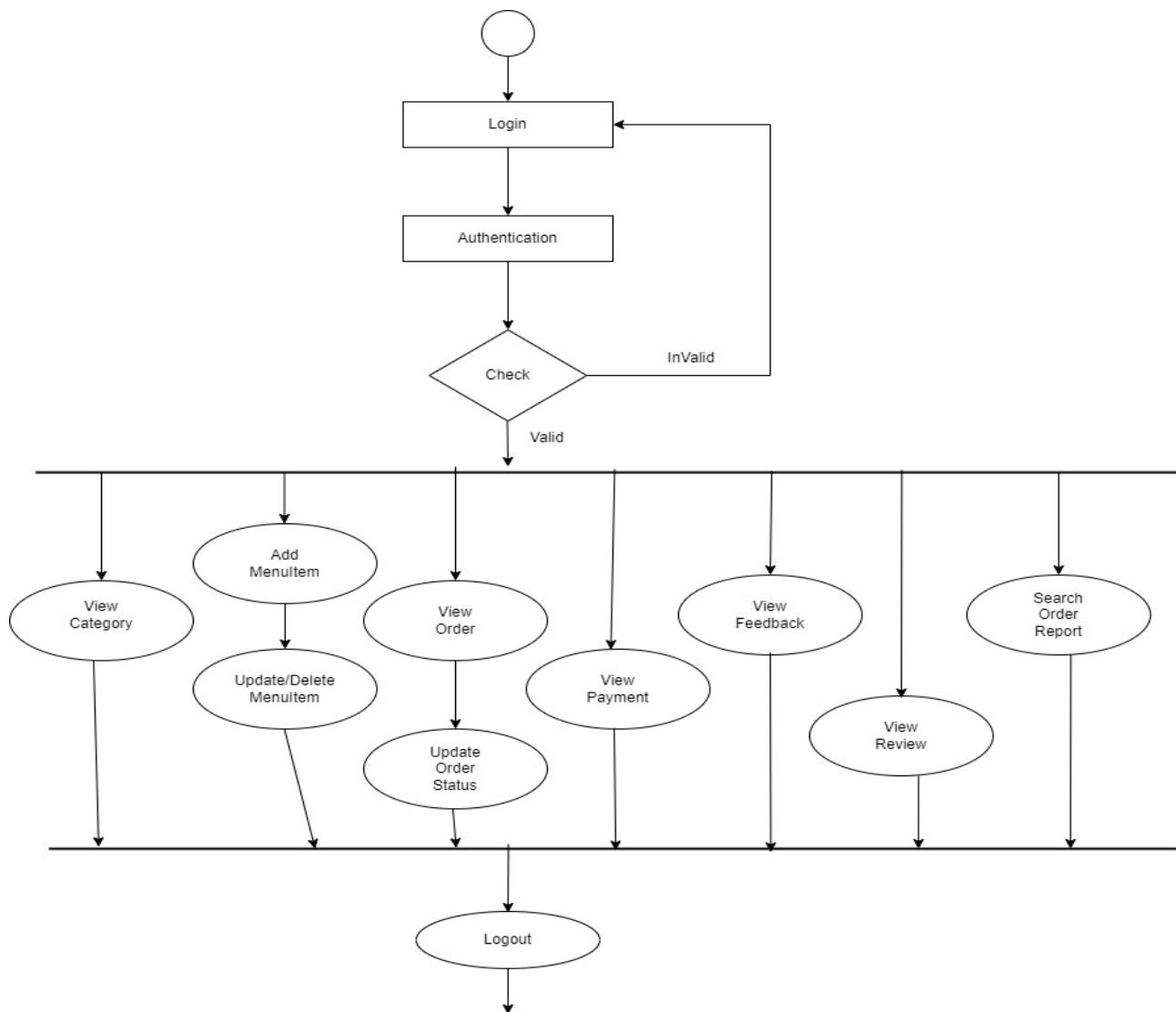


5.2.3 Activity Diagram

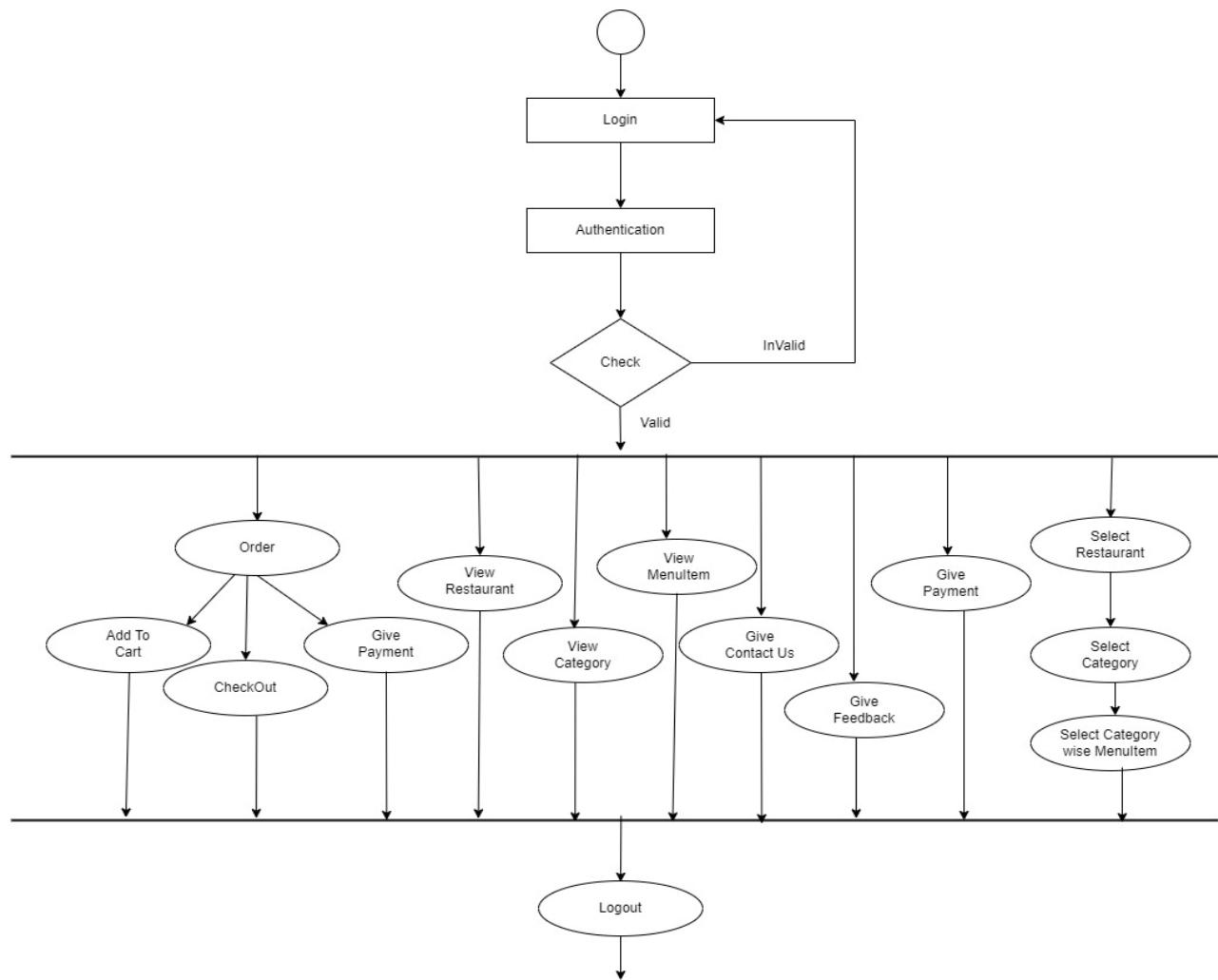
Admin



Restaurant

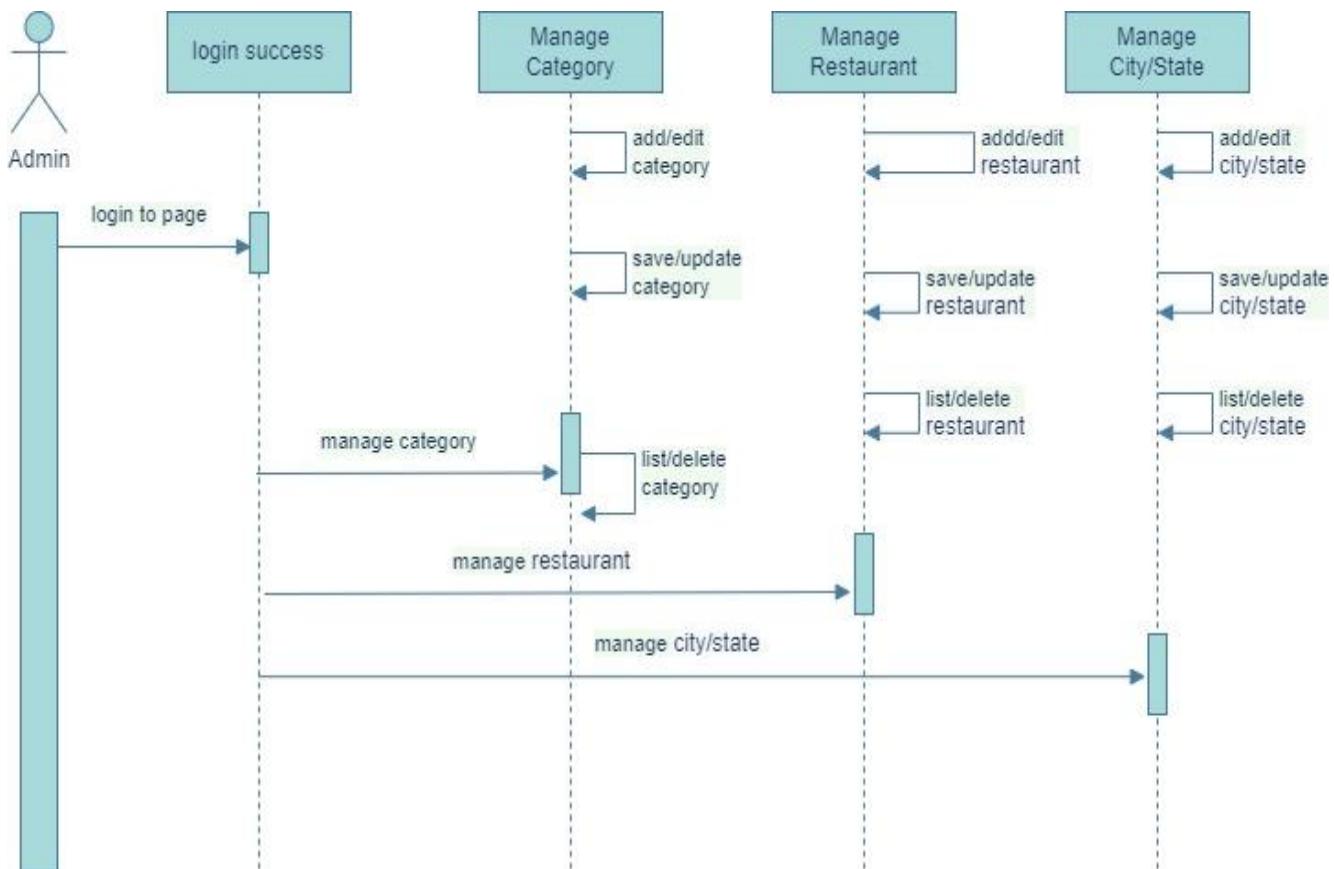


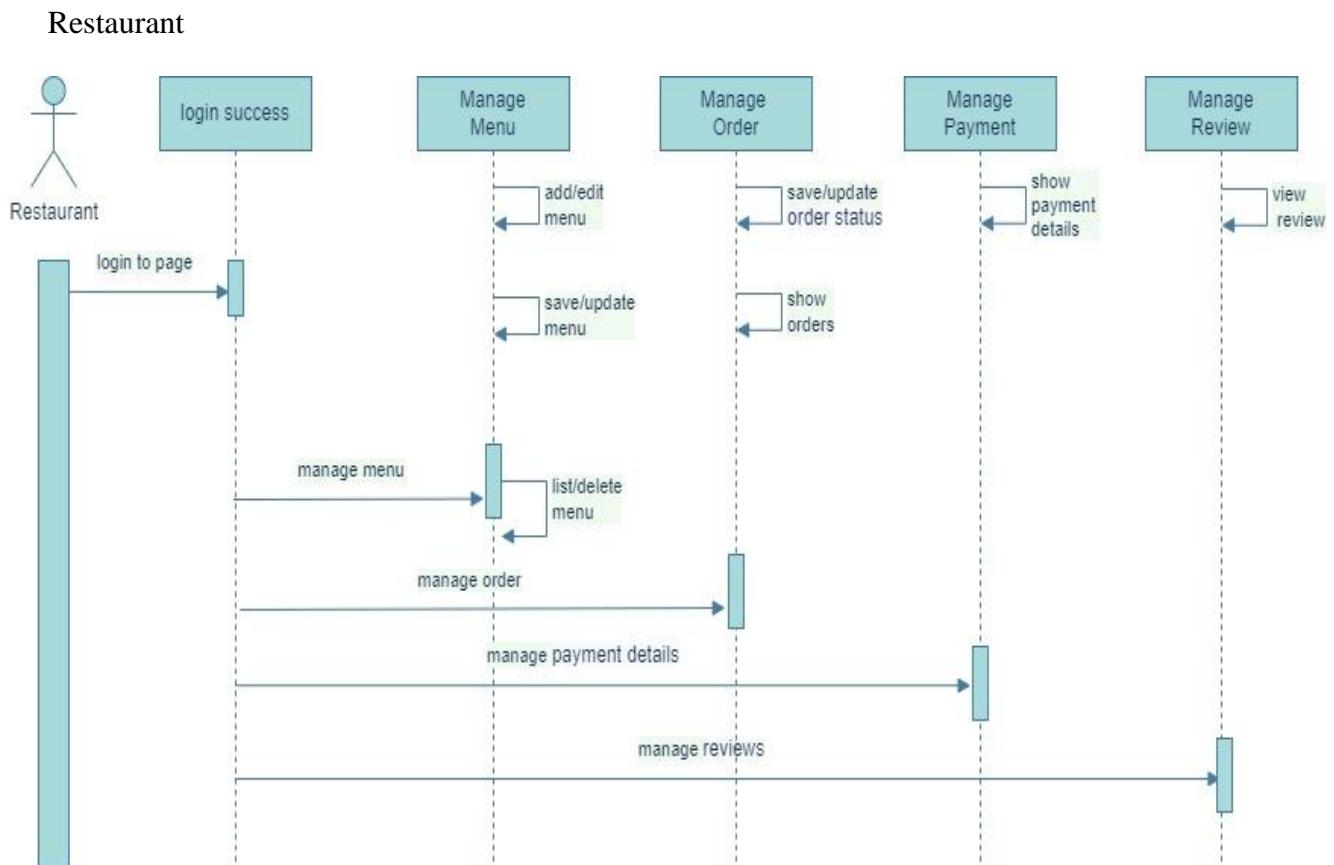
Customer

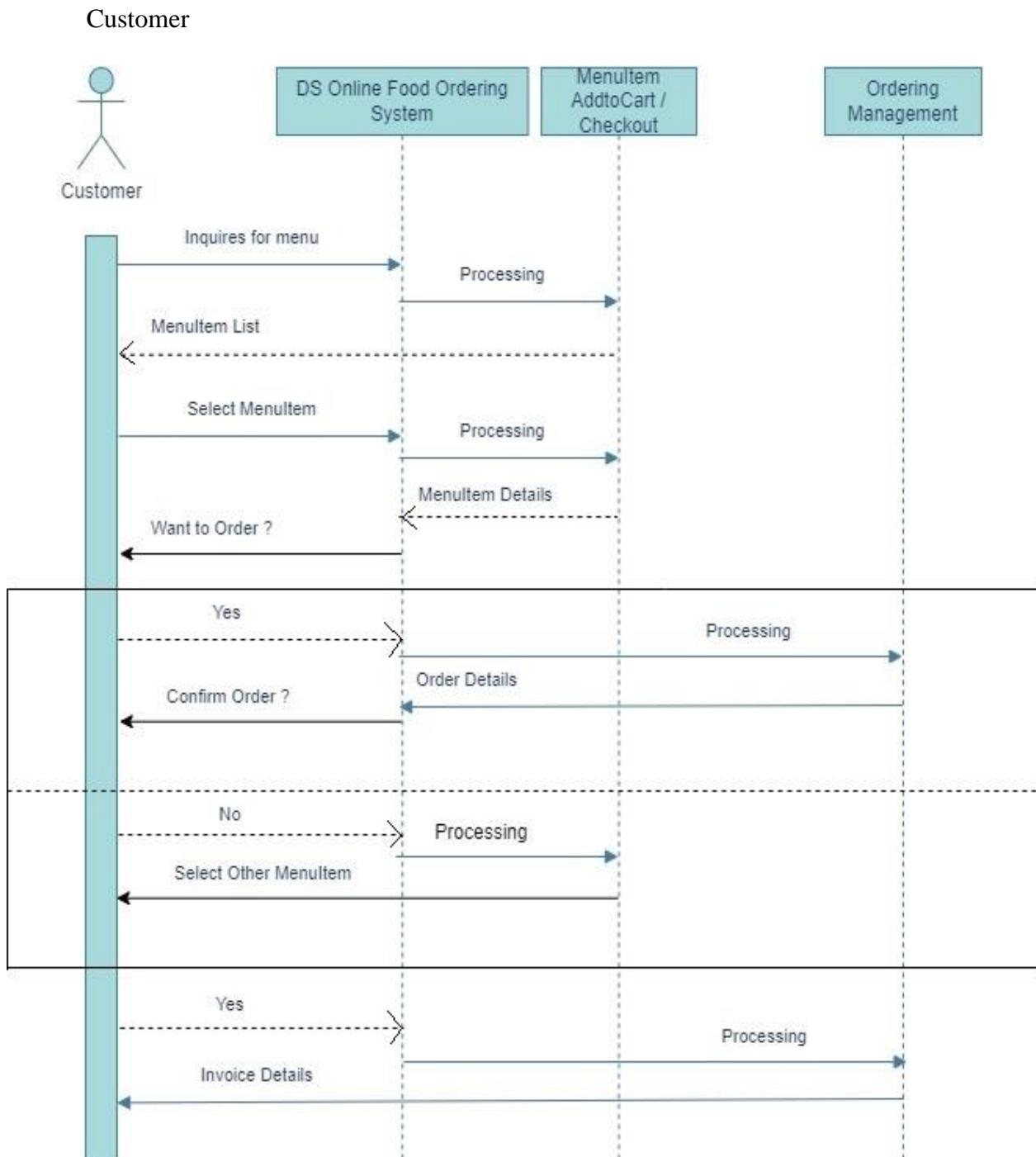


5.2.4 Sequence Diagram

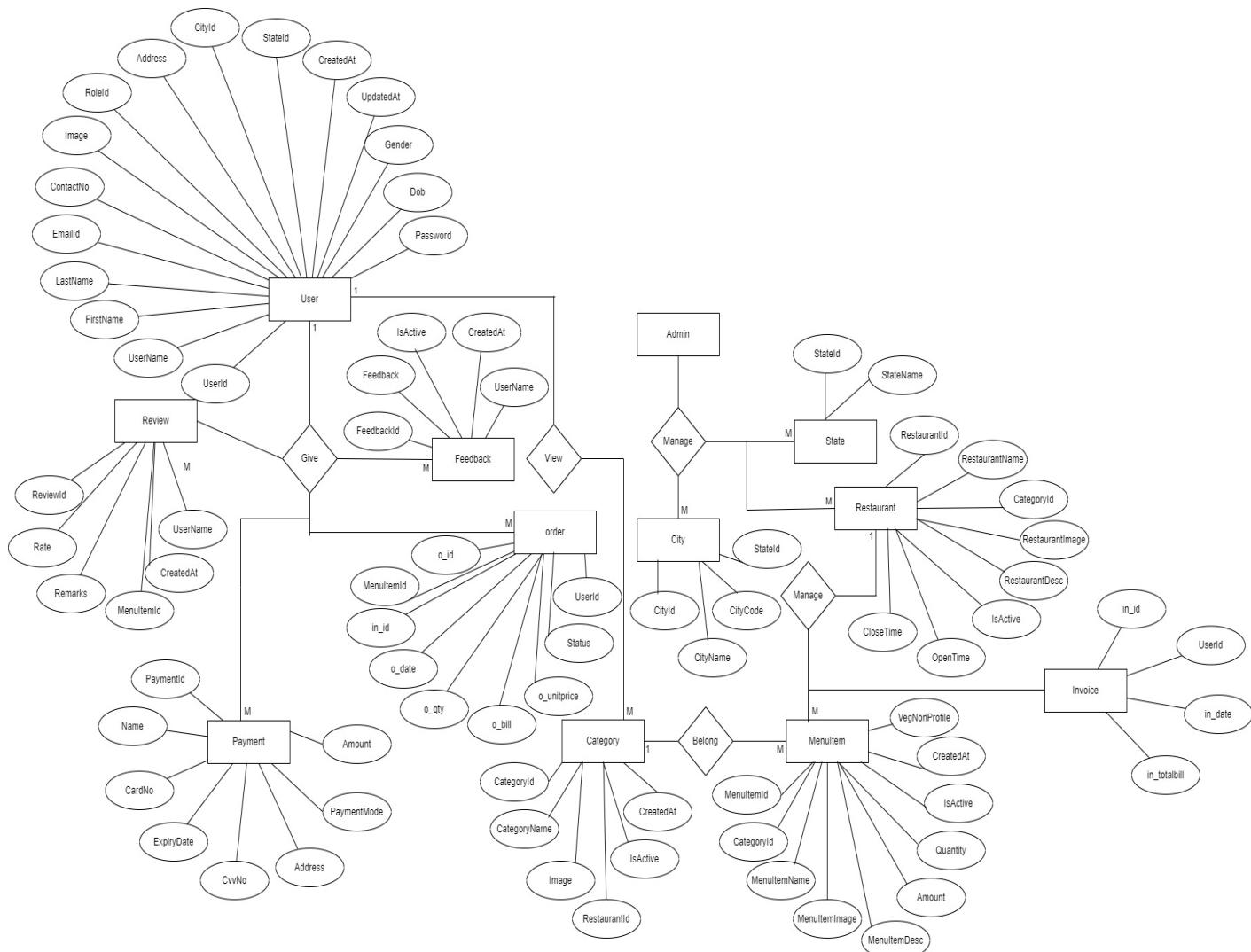
Admin







5.3 E-R Diagram



6. Software Design

6.1 Database Design

1. Table : Category

Primary Key : CategoryId

Field Name	Description	Type	Required
CategoryId	Category Id	Int	Yes
CategoryName	Category Name	varchar	Yes
Image	Category Image	varchar(MAX)	Yes
IsActive	Category Active	bit	Yes
CreatedAt	Category Create Date	datetime	Yes

2. Table : City

Primary Key : CityId

Foreign Key : StateId

Field Name	Description	Type	Required
CityId	City Id	Int	Yes
CityName	City Name	varchar	Yes
StateId	State Id	Int	Yes
CityCode	City Code	Int	Yes

3. Table : Feedback

Primary Key : FeedbackId

FieldName	Description	Type	Required
FeedbackId	Feedback Id	int	Yes
Feedback	Feedback Description	Varchar	Yes
UserName	UserName	Varchar	Yes
IsActive	Feedback IsActive	bit	Yes
CreatedAt	Feedback CreatedAt	datetime	Yes

4. Table : MenuItem

Primary Key : MenuItemId

Foreign Key : CategoryId

FieldName	Description	Type	Required
MenuItemId	MenuItem Id	Int	Yes
CategoryId	Category Id	Int	Yes
MenuItemName	MenuItem Name	varchar	Yes
MenuItemImage	MenuItem Image	varchar	Yes
MenuItemDescription	MenuItem Description	varchar	Yes
Amount	Category Amount	Int	Yes
Quantity	Category Quantity	Int	Yes
IsActive	Category IsActive	Bit	Yes
CreatedAt	CreatedAt	datetime	Yes
VegNonProfile	VegNonProfile	bit	Yes

5. Table : Order

Primary Key : OrderID

Foreign Key : MenuItemId, in_id

FieldName	Description	Type	Required
o_id	Order Id	int	Yes
in_id	Invoice Id	int	Yes
MenuItemId	MenuItem Id	int	Yes
Status	Status	varchar	Yes
o_qty	Order Quantity	int	Yes
o_bill	Order Bill	int	Yes
o_unitprice	Order Unitprice	int	Yes
o_date	Order Date	datetime	Yes

6. Table : Payment

Primary Key : PaymentId

FieldName	Description	Type	Required
PaymentId	Payment Id	Int	Yes
Name	User Name	Varchar	Yes
CardNo	Card Number	Int	Yes
ExpiryDate	Expiry Date	datetime	Yes
CvvNo	Card Cvv Number	Int	Yes
Address	Address	varchar	Yes
PaymentMode	Payment Mode	varchar	Yes

7. Table : Restaurant

Primary Key : RestaurantId

Foreign Key : CategoryId

FieldName	Description	Type	Required
RestaurantId	Restaurant Id	int	Yes
RestaurantName	Restaurant Name	varchar	Yes
CategoryId	Category Id	int	Yes
RestaurantImage	Restaurant Image	varchar	Yes
RestaurantDescription	Restaurant Description	varchar	Yes
IsActive	Restaurant IsActive	bit	Yes
OpenTime	Restaurant OpenTime	varchar	Yes
CloseTime	Restaurant CloseTime	varchar	Yes

8. Table : Review

Primary Key : payment_detail_id

Foreign Key : MenuItemId

FieldName	Description	Type	Required
ReviewId	Review Id	int	Yes
Rate	Rate	int	Yes
Remarks	Remarks	varchar	Yes
UserName	UserName	varchar	Yes
MenuItemId	MenuItem Id	int	Yes
CreatedAt	Created At	datetime	Yes
IsActive	IsActive	bit	Yes

9. Table : Roles

Primary Key : RoleId

FieldName	Description	Type	Required
RoleId	Role Id	int	Yes
RoleName	Role Name	varchar	Yes

10. Table : State

Primary Key : StateId

FieldName	Description	Type	Required
StateId	State Id	int	Yes
StateName	State Name	Varchar	Yes

11. Table : Invoice

Primary Key : in_id

Foreign Key : UserId

FieldName	Description	Type	Required
in_id	Invoice Id	int	Yes
UserId	User Id	varchar	Yes
in_date	Invoice Date	datetime	Yes
in_totalbill	Invoice total bill	Float	Yes

12. Table : UserMaster

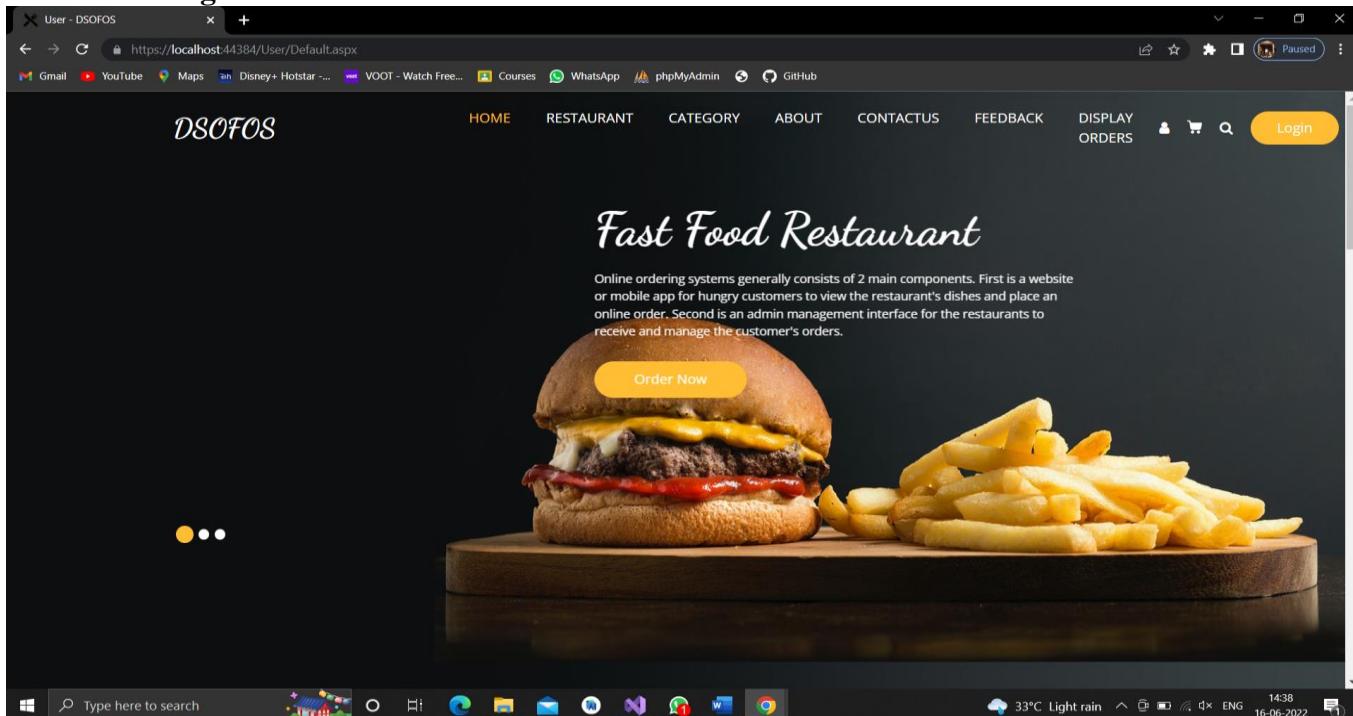
Primary Key : UserId

Foreign Key : CityId, StateId, RoleId

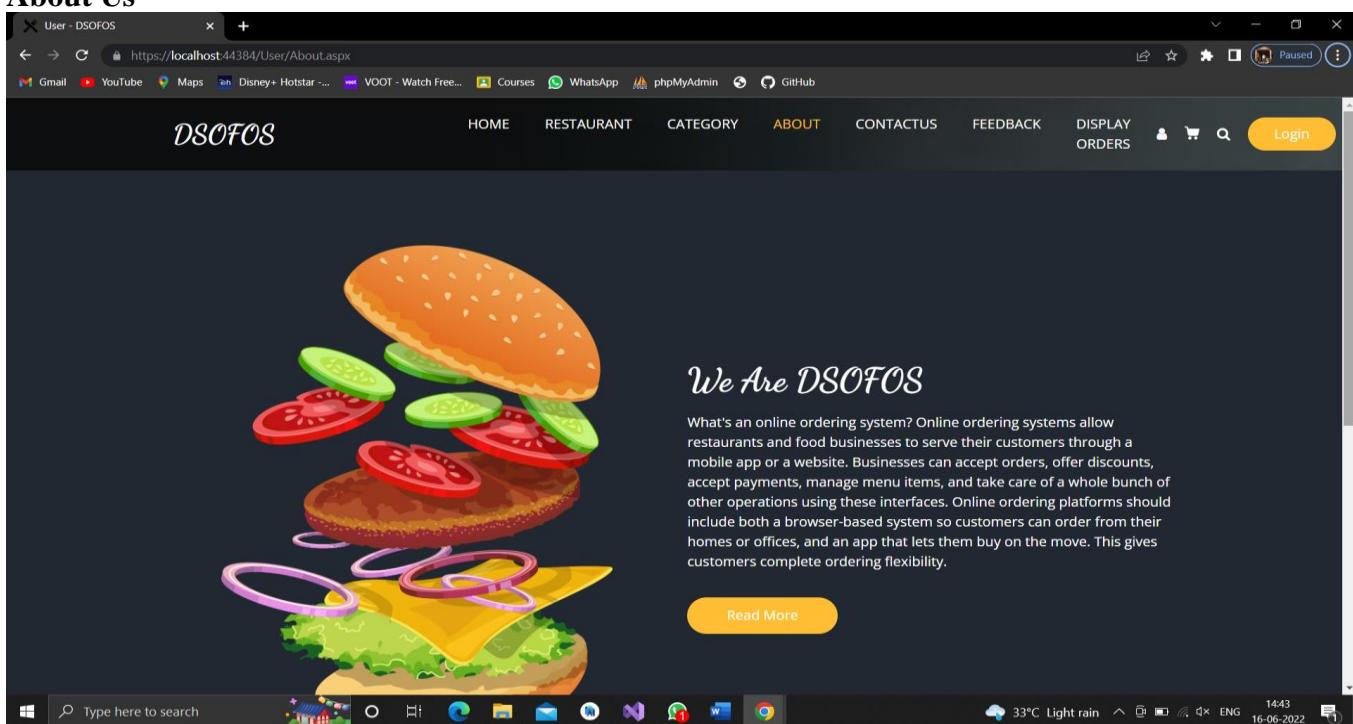
FieldName	Description	Type	Required
UserId	User Id	int	Yes
UserName	User Name	varchar	Yes
FirstName	First Name	varchar	Yes
LastName	Last Name	varchar	Yes
Address	Address	varchar	Yes
ContactNo	User Phone number	int	Yes
Dob	User Date Of Birth	Date	No
Gender	Gender	varchar	Yes
Image	User Photo	varchar	Yes
EmailId	User Email	varchar	Yes
Password	Password	varchar	Yes
CityId	User City Id	varchar	Yes
StateId	User State Id	varchar	Yes
RoleId	RoleId	int	Yes
CreatedAt	CreatedAt	datetime	Yes

6.2 Interface Design sitemap followed with page snapshots

Home Page



About Us



Contact Us

The screenshot shows a web browser window with the URL <https://localhost:44384/EmailSetup>. The page title is "Index Customer - DSOFOS". The main content area is titled "Contact Us". It contains a form with fields for "To" (Vidhikatrodya0512@gmail.com), "Subject" (website related), and "Body" (This web is nice and very useful web). Below the form is a "Send" button. A green message at the bottom states "Mail has been sent successfully...".

Customer Login

The screenshot shows a web browser window with the URL <https://localhost:44384/User/Login.aspx>. The page title is "User - DSOFOS". The main content area is titled "Customer Login". It features a large blue background image of a digital lock. On the right side, there are two input fields: "Enter Username" and "Enter Password". Below these is a green "Login" button and a link "New User? [Register Here..](#)".

Register Page

User - DSOFOS

https://localhost:44384/User/Registration.aspx

Paused

DSOFOS

HOME RESTAURANT CATEGORY ABOUT CONTACTUS FEEDBACK DISPLAY ORDERS Login

User Registration

Enter Username	Enter Mobile Number
Enter First Name	Enter Address
Enter Last Name	Choose File No file chosen
Enter Email Id	Enter Password

Register Already registered? [Login Here...](#)

Restaurants View

Index Customer - DSOFOS

https://localhost:44384/Restaurants/Index

Paused

DSOFOS

HOME RESTAURANT CATEGORY ABOUT CONTACTUS FEEDBACK DISPLAY ORDERS

Restaurants

RestaurantName	RestaurantImage	RestaurantDescription	OpenTime	CloseTime	Action
Chinese Restaurant		All Item are available in Chinese	9 : 00 am	10 : 00 pm	Show Category
Restaurant		Available All Menu	9 : 00 am	11 : 00 pm	Show Category
Sai Dhaba		All Item are available in Panjabi	10 : 00 am	11 : 00 pm	Show Category
Surabhi Res		All Item are available in Gujarati	9 : 00 am	12 : 00 pm	Show Category

Pages 1 of 1

Category View

The screenshot shows a web browser window titled "Index Customer - DSOFOS". The URL is https://localhost:44384/Categories/Index. The page has a black header with the logo "DSOFOS" and navigation links: HOME, RESTAURANT, CATEGORY (which is highlighted in yellow), ABOUT, CONTACTUS, FEEDBACK, and DISPLAY ORDERS. Below the header, a message says "Total Bill: 0 Rs". A blue "Check Out" button is visible. The main content area is titled "Category Lists" and contains a search bar with placeholder "Search Category:" and a "Search" button. It lists three categories: "All Type" (with an image of a traditional Indian thali), "Chinese" (with an image of a stir-fry dish), and "Gujrati" (with an image of a Gujarati thali). Each category has a "Show Menu" button to its right.

Show MenuItem List

The screenshot shows a web browser window titled "ShowMenuItem List - DSOFOS". The URL is https://localhost:44384/Categories>ShowMenu?categoryId=6. The page has a black header with the logo "DSOFOS" and navigation links: HOME, RESTAURANT, CATEGORY, ABOUT, CONTACTUS, FEEDBACK, and DISPLAY ORDERS. The main content area is titled "Menu Lists" and displays two menu items: "Gujarati Thali" and "Thepla". Each item has a small image, a description, a price, and buttons for "Add To Cart" and "Review". The "Gujarati Thali" item costs 100.00 and the "Thepla" item costs 150.00.

AddtoCart

A screenshot of a web browser window titled "Addtocart - My ASP.NET Application". The URL is https://localhost:44384/Categories/Adtocart/13. The page displays a menu item named "Gujarati Thali" with a price of 100.00 Rs. A dropdown menu shows the quantity set to 5, with a "Submit" button. The browser's address bar and taskbar are visible at the top.

Add To Cart Lists



MenuItem Name: Gujarati Thali

Price: 100.00 Rs.

Description: It's a very nice

Submit

© 2022 - My ASP.NET Application

CheckOut

A screenshot of a web browser window titled "checkout Customer - DSOFOS". The URL is https://localhost:44384/Categories/checkout. The page displays a table of a pending order for a Gujarati Thali. The table has columns: ID, NAME, PRICE, QUANTITY, Status, and BILL. The entry shows ID 13, NAME Gujarati Thali, PRICE 100, QUANTITY 6, Status Pending, and BILL 600. A red "X" button is next to the BILL column. Below the table are "checkout" and "go Back" buttons. The browser's address bar and taskbar are visible at the top.

checkout

ID	NAME	PRICE	QUANTITY	Status	BILL
13	Gujarati Thali	100	6	Pending	600

600

A screenshot of a Windows taskbar. It shows the Start button, a search bar, pinned icons for File Explorer, Edge, Mail, Photos, OneDrive, and File Explorer, and other icons like Task View, Task Manager, and File Explorer. The system tray shows the date (16-06-2022), time (14:56), battery level, signal strength, and a "Very high UV" alert.

Payment

The screenshot shows a web browser window for 'Create Customer - DSOFOS' at <https://localhost:44384/PaymentsUser/Create>. The page title is 'Enter Payment Details'. The form fields are as follows:

FullName	Darshu patel
CardNo	74859647859647
ExpiryDate	25-05-2023
CvvNo	...
Address	Hirabaug
PaymentMode	Credit Card

Total Bill: 600 Rs

[Create](#)

[Back to List](#)

Generate Invoice

The screenshot shows a web browser window for 'invoice_Generation Customer - DSOFOS' at https://localhost:44384/Categories/invoice_Generation. The page title is 'INVOICE_GENARATION'. The top right shows weather: 30°C, Rain showers, and date: 19-06-2022.

Invoice No.: 13
Email Address: DSOFOS@gmail.com

Full Name: DS Online Food Ordering System
Address: DSOFOS
Phone Number: +91 7894561231
City,State,Pincode: Surat, Gujarat, 395006

□Copy □Excel □PDF □CSV

Search:

ID	NAME	PRICE	QUANTITY	BILL
13	Gujarati Thali	100	6	600
				600



Review

The screenshot shows a web browser window with the URL <https://localhost:44384/Categories>ShowComment?menutemId=13>. The page title is "ShowComment". The content area displays a comment from "Dhruv" posted on "07-Jun-2022" at "07-Jun-2022". The comment reads: "Wow Its a nice Gujarati Thali" and has a rating of ★★★★☆. Below this, there is a form for entering a new comment with fields for "Please Enter Your Comment" (a large text area), "Enter UserName" (a text input field), and a "Save Comment" button.

Feedback

The screenshot shows a web browser window with the URL <https://localhost:44384/FeedbacksUser/Create>. The page title is "Create Customer - DSOFOS". The content area displays a "Create Feedback" form with fields for "Feedback" (containing "hello DSOFOS"), "UserName" (containing "Darshu"), and "CreatedAt" (containing "16-06-2022"). There is also a "Create" button and a "Back to List" link.

Display Orders

The screenshot shows a web browser window titled "Index Customer - DSOFOS". The URL is https://localhost:44384/tbl_orderUser/Index. The page header includes links for HOME, RESTAURANT, CATEGORY, ABOUT, CONTACTUS, FEEDBACK, DISPLAY ORDERS, and a user profile icon. Below the header is a table titled "Check Order Status" with columns: o_date, o_qty, o_bill, o_unitprice, Status, MenuItemName, in_id, and UserName. The table contains several rows of order data. At the bottom of the table, there is a page navigation bar showing "Pages 1 of 1" and a single page number "1".

o_date	o_qty	o_bill	o_unitprice	Status	MenuItemName	in_id	UserName
07-06-2022 22:53:54	2	200	100	Delivered	Gujarati Thali	167	Darshu
07-06-2022 22:53:54	2	300	150	In Progress	Chhole Bhature	167	Darshu
07-06-2022 22:57:44	2	200	100	In Progress	Gujarati Thali	168	Darshu
16-06-2022 00:00:00	4	600	150	In Progress	Roti Chawal	186	Darshu
16-06-2022 14:56:42	6	600	100	Pending	Gujarati Thali	187	
16-06-2022 00:00:00	4	1000	250	pending	Spring Rolls	185	Darshu

Customer Profile

The screenshot shows a web browser window titled "User - DSOFOS". The URL is https://localhost:44384/User/Profile.aspx. The page header includes links for HOME, RESTAURANT, CATEGORY, ABOUT, CONTACTUS, FEEDBACK, DISPLAY ORDERS, and a Logout button. Below the header is a section titled "Customer Information" featuring a profile picture of a woman named "dhrushi" and her details: Darshu, dhruvikatrodya22@gmail.com. There are tabs for "Basic Info" (selected) and "Purchased History". The "Basic Info" tab displays the following fields: Username (Dhrushi), FirstName (dhrushi), LastName (katrodya), Email (dhruvikatrodya22@gmail.com), Mobile No. (7456124152), and Address (Vithalnagar soc., Hirabaug, Varachha Road, Surat). At the bottom of the page, there is a page navigation bar showing "Pages 1 of 1" and a single page number "1".

Admin Side

Admin Login

The screenshot shows a web browser window titled "User - DSOFOS" with the URL <https://localhost:44384/User/Login.aspx>. The page has a dark header with the DSOFOS logo and navigation links: HOME, RESTAURANT, CATEGORY, ABOUT, CONTACTUS, FEEDBACK, DISPLAY ORDERS, and a user icon. A yellow "Login" button is on the right. Below the header is a "Login" form with two input fields: one for "Admin" and one for ".....". A green "Login" button is at the bottom left, and a link "New User? [Register Here...](#)" is at the bottom right. The background features a blue digital lock icon.

Dashboard

The screenshot shows a web browser window titled "Admin Side DSOFOS" with the URL <https://localhost:44384/Admin/Dashboard.aspx>. The page has a dark header with the DSOFOS logo and a user profile picture labeled "Admin". On the left is a sidebar with categories: Layout (Dashboard), Forms & Tables (Categories, Restaurant, City, State, User, Feedback), and Other (Selling Report). The main area displays six cards with icons and text: Category (Get more Details), Customer (Get More Info), Restaurants (Get Details), States (Just update), Cities (More Cities), and Selling Reports (Get more Details, Get Details). The dashboard is set against a background of a city skyline at night.

Add Category

The screenshot shows the 'Add Category' page of the Admin Side DSOFOS application. On the left, a sidebar menu includes 'Dashboard', 'Categories' (selected), 'Restaurant', 'City', 'State', 'User', 'Feedback', and 'Selling Report'. The main content area has two sections: 'CATEGORY' (with fields for Category Name and Image) and 'CATEGORY LISTS' (a table showing existing categories like All Type, Chinese, Gujarati, and Panjabi). The table includes columns for Category Name, Image, IsActive, CreatedAt, and Action (Edit and Delete buttons).

Manage Restaurants

The screenshot shows the 'Manage Restaurants' page of the Admin Side DSOFOS application. The sidebar menu is identical to the previous page. The main content area displays a list of restaurants with columns for RestaurantName, RestaurantImage, RestaurantDescription, OpenTime, CloseTime, IsActive, CategoryName, and Action (Edit, Details, Delete). The listed restaurants include Chinese Restaurant, Restaurant, Sai Dhaba, and Surabhi Res.

Admin Side DSOFOS

<https://localhost:44384/RestaurantsList/Create>

Gmail YouTube Maps Disney+ Hotstar ... VOOT - Watch Free... Courses WhatsApp phpMyAdmin GitHub

DSOFOOS Admin

Create Restaurant

RestaurantName:

CategoryId:

RestaurantImage: Choose File | No file chosen

Description:

IsActive: Active De-Active

OpenTime:

CloseTime:

Create

Back to List

Manage City

Admin Side DSOFOS

<https://localhost:44384/Cities/Index>

Gmail YouTube Maps Disney+ Hotstar ... VOOT - Watch Free... Courses WhatsApp phpMyAdmin GitHub

DSOFOOS Admin

Index

Create New

Search Cities: Search

CityName	CityCode	StateName	Action
Amod	2641	Gujarat	Edit Details Delete
Anand	2692	Gujarat	Edit Details Delete
Fatehabad	1667	Haryana	Edit Details Delete
Hajo	3664	Assam	Edit Details Delete
Halflong	3673	Assam	Edit Details Delete

Pages 1 of 2

1 2 »

The screenshot shows a web browser window titled "Admin Side DSOFOS" with the URL <https://localhost:44384/Cities/Create>. The page has a dark header bar with various links like Gmail, YouTube, Maps, Disney+, VOOT, Courses, WhatsApp, phpMyAdmin, and GitHub. On the left is a sidebar with "DSOFOS" branding and navigation links for Layout, Dashboard, Forms & Tables (Categories, Restaurants, City, State), User, Feedback, and Other (Selling Report). The main content area is titled "Create City" and contains fields for "CityName" (empty), "CityCode" (empty), "StateId" (set to "Gujarat"), and a "Create" button. Below the form is a "Back to List" link.

Manage State

The screenshot shows a web browser window titled "Admin Side DSOFOS" with the URL <https://localhost:44384/States/Index>. The layout is identical to the previous screenshot, with the same sidebar and header. The main content area is titled "State Details" and includes a "Create New" button, a search bar with "Search State:" and a "Search" button, and a table of state details. The table has columns for "StateName" and "Action". The data in the table is as follows:

StateName	Action
Assam	Edit Details Delete
Goa	Edit Details Delete
Gujarat	Edit Details Delete
Haryana	Edit Details Delete
Karnataka	Edit Details Delete

Below the table, it says "Pages 1 of 2" and shows page navigation buttons (1, 2, »).

The screenshot shows a web browser window titled "Admin Side DSOFOS" with the URL <https://localhost:44384/States/Create>. The page has a dark blue header with the "DSOFOS" logo and a user profile picture labeled "Admin". On the left is a sidebar with navigation links: Layout, Dashboard, Categories, Restaurants, City, State (which is highlighted in orange), User, Feedback, Forms & Tables, and Other (with a link to "Selling Report"). The main content area is titled "Create State" and contains a "StateName" input field. Below it is a "Create" button and a "Back to List" link. The status bar at the bottom shows system icons and the date/time: 33°C Light rain 15:09 16-06-2022.

Manage User

The screenshot shows a web browser window titled "Admin Side DSOFOS" with the URL <https://localhost:44384/UserMasters/Index>. The layout is identical to the previous screenshot, with the "State" link in the sidebar also highlighted in orange. The main content area is titled "User Lists" and features a search bar with placeholder "Search User:" and a "Search" button. Below is a table with columns: UserName, FirstName, LastName, EmailId, ContactNo, Image, Address, and Action (with a "Delete" link). The table contains four rows of user data. At the bottom, it says "Pages 1 of 1" with a single page number "1". The status bar at the bottom shows system icons and the date/time: 33°C Light rain 15:09 16-06-2022.

Manage Feedback

The screenshot shows a web browser window titled "Admin Side DSOFOS" with the URL <https://localhost:44384/Feedbacks/Index>. The page is titled "FeedBack List". On the left, there is a sidebar with navigation links: Layout, Dashboard, Categories, Restaurants, City, State, User, Feedback, and Other (Selling Report). The main content area displays a table with two rows of feedback data:

Feedback	CreatedAt	UserName	Action
hello DSOFOS	16-06-2022	Dhruvi	Delete
welcome	14-06-2022	Darshu	Delete

At the bottom of the content area, it says "Pages 1 of 1" with a single page number "1". The browser's address bar shows "Type here to search" and the taskbar at the bottom includes icons for various applications like File Explorer, Edge, Mail, and Google Chrome.

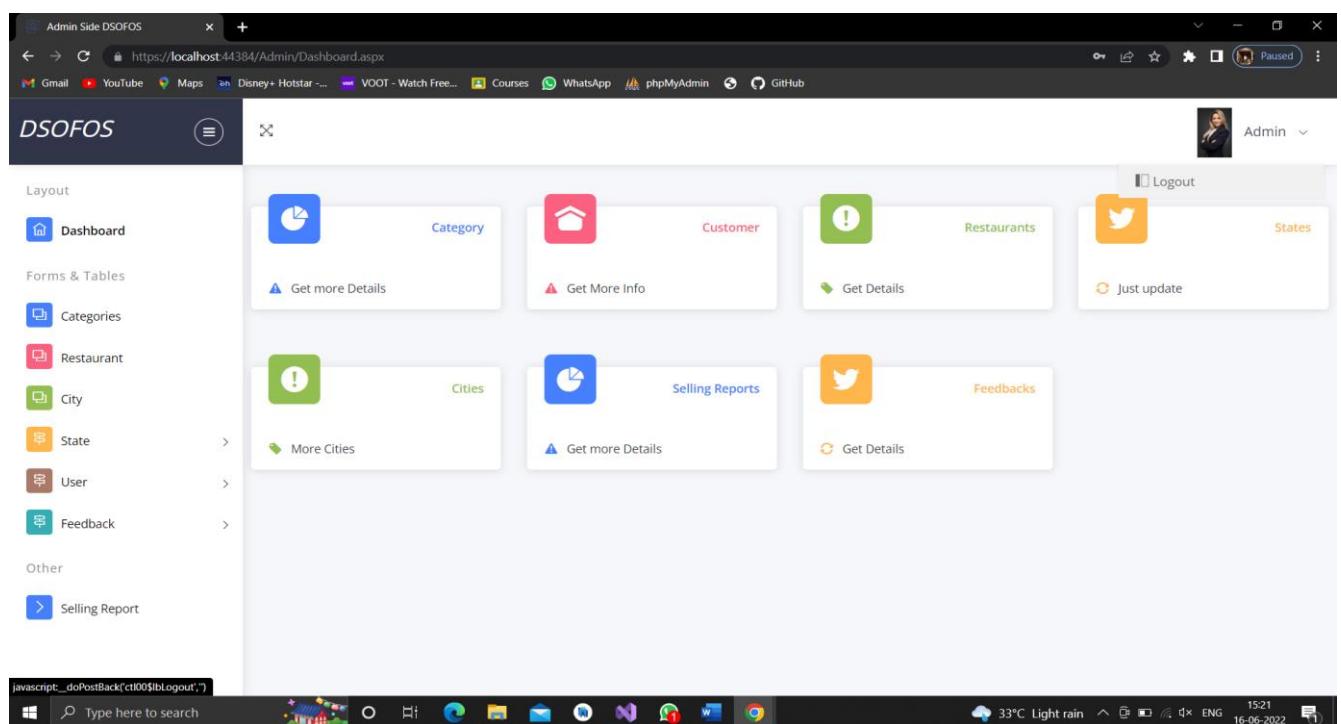
Manage Selling Report

The screenshot shows a web browser window titled "Admin Side DSOFOS" with the URL <https://localhost:44384/ReportDateWise/Index>. The page is titled "Date Wise Report". On the left, there is a sidebar with navigation links: Layout, Dashboard, Categories, Restaurants, City, State, User, Feedback, and Other (Selling Report). The main content area has input fields for "Start Date" (14-06-2022) and "End Date" (17-06-2022), followed by a "Submit" button. Below these, there is a table with three rows of order data:

Order ID	Order Date	Order Quantity	Order Price	Order Bill	Order MenuItemID
219	16-06-2022 00:00:00	4	250	1000	18
220	16-06-2022 00:00:00	4	150	600	19
221	16-06-2022 14:56:42	6	100	600	13

At the bottom of the content area, it says "Count 3". The browser's address bar shows "Type here to search" and the taskbar at the bottom includes icons for various applications like File Explorer, Edge, Mail, and Google Chrome.

Admin Logout



Restaurant Side

Restaurant Login

The screenshot shows a login interface for the 'DSOFOS' system. The background is a blue-themed graphic featuring a large digital padlock. To the right, there are two input fields: one for 'Restaurant' and another for a password represented by dots. Below these fields are two buttons: a green 'Login' button and a blue 'New User? Register Here.' link.

Dashboard

The screenshot shows the 'R_Dashboard.aspx' page. The left sidebar has a 'Layout' section with a 'Dashboard' item, and other sections for 'Forms & Tables' (Categories, Menu, Order, Payment) and 'Other' (Selling Report, Review). The main content area contains six cards arranged in a grid:

- Category List: Get more Details
- Customer: Get More Info
- Menus: Get Details
- Order Lists: Just update
- Payment Lists: More Details
- Selling Reports: Get more Details
- Reviews: Get More Info

View Category

The screenshot shows the 'Category Lists' section of the DSOFOS application. On the left, a sidebar menu includes 'Dashboard', 'Categories' (selected), 'Menu', 'Order', 'Payment', 'Selling Report', and 'Review'. The main content area displays a table of categories:

Category Name	Image	IsActive	CreatedAt
All Type		Active	08-06-2022 10:37:56
Chinese		Active	07-06-2022 19:05:06
Gujrati		Active	07-06-2022 19:04:21
Punjabi		Active	07-06-2022 19:04:43

Manage Menu

The screenshot shows the 'Menu Lists' section of the DSOFOS application. On the left, a sidebar menu includes 'Dashboard', 'Categories' (selected), 'Menu' (selected), 'Order', 'Payment', 'Selling Report', and 'Review'. The main content area has two sections: 'MENU' on the left and 'MENU LISTS' on the right.

MENU

- MenuItem Name: Enter the MenuItem name
- MenuItem Description: Enter the MenuItem Description
- MenuItem Price(₹): Enter the Price
- MenuItem Quantity: Enter the Quantity
- MenuItem Image: Choose File | No file chosen
- MenuItem Category: Select Category
- IsActive
- VegNonVeg

MENU LISTS

Action	MenuItem Name	MenuItem Image	Price(₹)	Qty	Category	IsActive	Veg-NonVeg
	Amritsari Kulcha		180.00	9	Punjabi	In-Active	NON-VEG
	Chhole Bhature		150.00	15	Punjabi	Active	VEG
	Gujarati Thali		100.00	10	Gujrati	Active	VEG

MenuItem	Description	Price	Quantity	Category	Status	Type
Gujarati Thali	It's a very nice	100.00	10	Gujrati	Active	VEG
Manchuriyan	It's one of the most popular cuisine across the world	220.00	6	Chinese	Active	VEG
Roti Chawal		150.00	4	All Type	Active	VEG
Spring Rolls		250.00	20	Chinese	Active	NON-VEG
Thepla		150.00	20	Gujrati	Active	VEG

Manage Order

o_date	o_qty	o_bill	o_unitprice	Status	MenuItemName	in_id	UserName	
07-06-2022 22:53:54	2	200	100	Delivered	Gujarati Thali	167	Darshu	Edit Delete
07-06-2022 22:53:54	2	300	150	In Progress	Chhole Bhature	167	Darshu	Edit Delete
07-06-2022 22:57:44	2	200	100	In Progress	Gujarati Thali	168	Darshu	Edit Delete
16-06-2022 00:00:00	4	600	150	In Progress	Roti Chawal	186	Darshu	Edit Delete
16-06-2022 14:56:42	6	600	100	Pending	Gujarati Thali	187		Edit Delete
16-06-2022 00:00:00	4	1000	250	pending	Spring Rolls	185	Darshu	Edit Delete

Update Order Status

The screenshot shows the 'Edit tbl_order' page in the DSOFOS application. On the left is a sidebar with navigation links: Layout, Dashboard, Categories, Menu, Order, Payment, Other, Selling Report, and Review. The main area has fields for MenuItemId (Gujarati Thali), ln_Id (167), o_date (07-06-2022 22:53:54), o_qty (2), o_bill (200), o_unitprice (100), and a Status dropdown. The 'Status' dropdown is open, showing four options: Delivered, Update Status pending, In Progress, and Delivered. The 'In Progress' option is highlighted with a blue selection bar. At the bottom is a 'Save' button.

Manage Payment

The screenshot shows the 'Payment Details' page in the DSOFOS application. On the left is a sidebar with navigation links: Layout, Dashboard, Categories, Menu, Order, Payment, Other, Selling Report, and Review. The main area displays a table titled 'Payment Details' with columns: Name, CardNo, ExpiryDate, Address, and PaymentMode. The table contains the following data:

Name	CardNo	ExpiryDate	Address	PaymentMode
Dhrushi Katrodiya	74859647859647	2023-05-18	Vithalnagar	Credit Card
Dhrushi Katrodiya	96748596458596	2024-07-11	Hirabaug	Credit Card
Darshvi Patel	74859647859647	2022-06-30	Vithalnagar	Credit Card
Darshvi Patel	74859648574896	2023-10-12	Vithalnagar	Credit Card
ram Patel	74859648574896	2023-03-11	jakatnaka	debitcard
Shilpa Maniya	45968574855896	2023-09-13	Soham Nagar	debitcard

At the bottom, it says 'Pages 1 of 1' with a page number '1'.

Manage Selling Report

The screenshot shows a web application titled "DSOFOOS" with a sidebar menu. The main content area is titled "Date Wise Report" and displays a table of sales data between June 14 and June 17, 2022.

Date Wise Report

Order ID	Order Date	Order Quantity	Order Price	Order Bill	Order MenuItemID
219	16-06-2022 00:00:00	4	250	1000	18
220	16-06-2022 00:00:00	4	150	600	19
221	16-06-2022 14:56:42	6	100	600	13
Count	3				

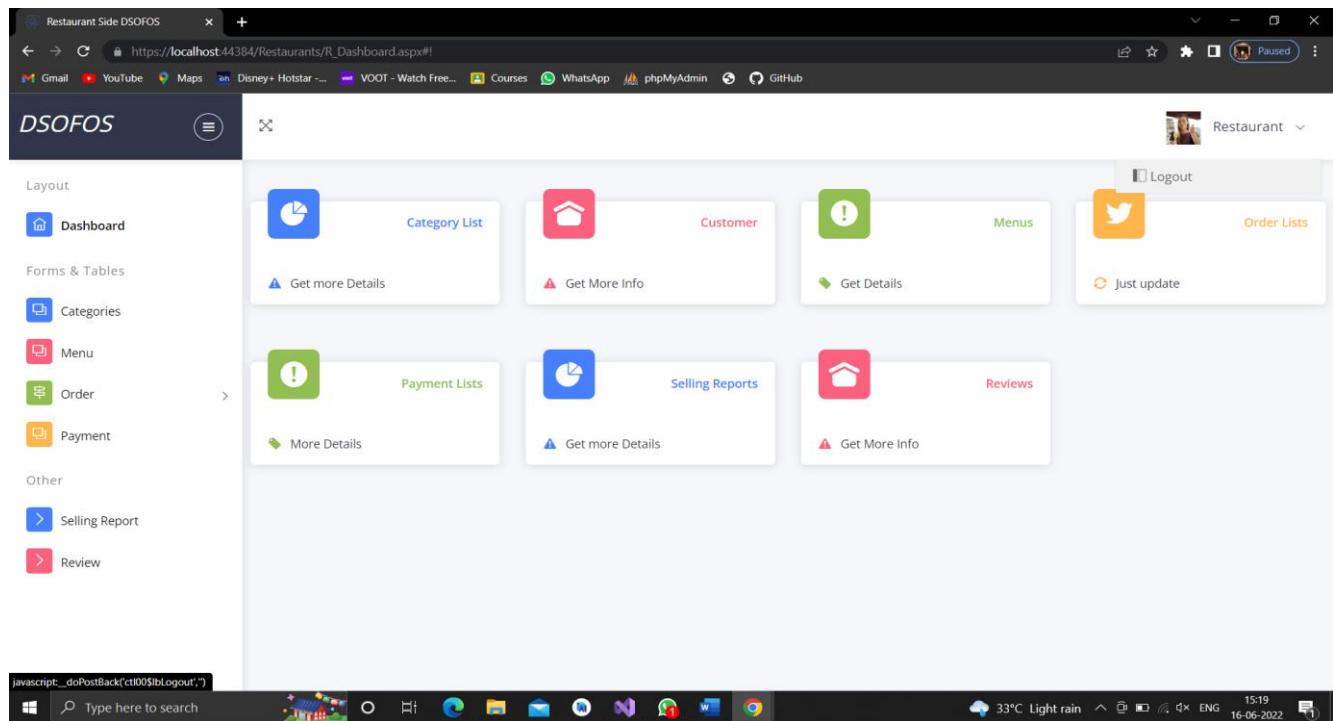
View Review

The screenshot shows a web application titled "DSOFOOS" with a sidebar menu. The main content area is titled "Review List" and displays a table of reviews.

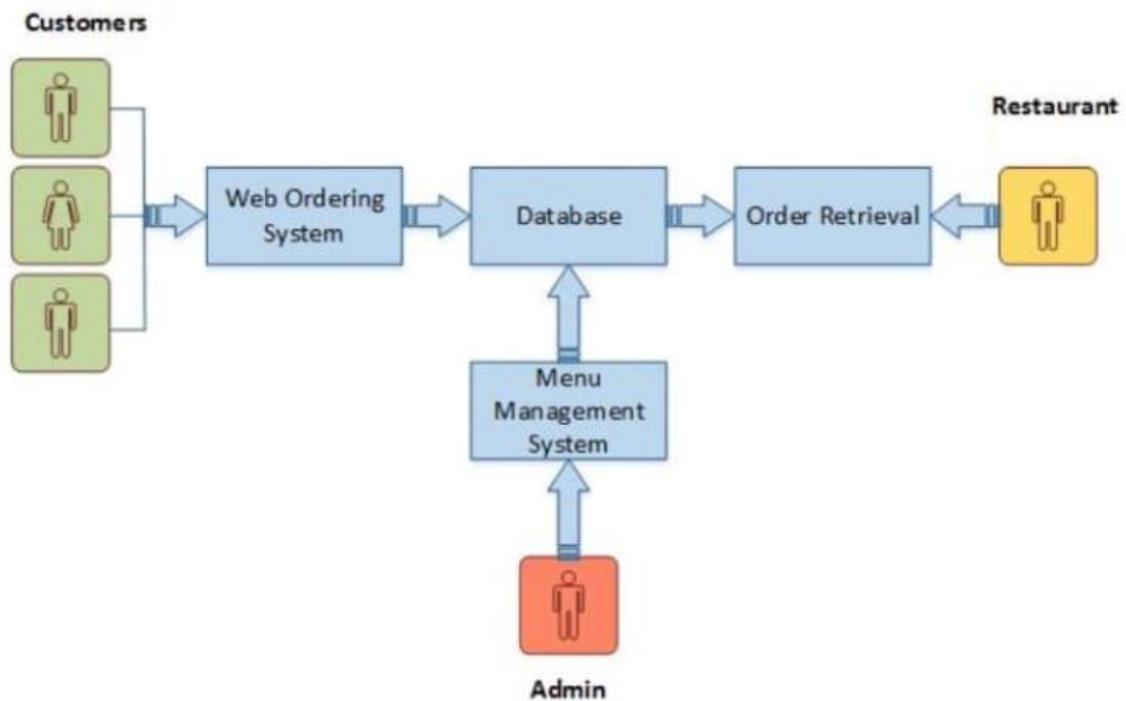
Review List

Rate	Remarks	CreatedAt	MenuItemName	UserName
4	Wow Its a nice Gujarati Thali	07-06-2022 22:53:11	Gujarati Thali	Dhrushi
3	Nice It is a Testy	07-06-2022 22:53:47	Chhole Bhature	Dhrushi
3	Its a Amazing	07-06-2022 23:02:56	Manchuriyan	Dhrushi
3	nice dish	08-06-2022 07:10:28	Thepla	Shilpa

Logout



6.3 Architecture Design (If you are using 3 tier application then you can explain it in this)



7. Testing

7.1 Unit Testing

- A unit is an instance of a VideoMod, which contains a location, a size, and the string where the video lives.
- Video placement can be tested by specifying the x and y locations statically (white box) or variably (black box).
- Video pause is a simple boolean toggle statement which can be triggered statically (white box) or based on certain criteria (black box).
- Video pixilation and swirling was tested with static values indicating cell size and how to rotate, as well as variable criterion.
- Similarly, video speed was tested by static values indicating the play back speed as well as variables.
- And finally, video tint is tested similarly. After it was confirmed that the functions could perform as they should, input from the sensor was used.

➤ Why Unit Testing?

- **Unit Testing** is important because software developers sometimes try saving time doing minimal unit testing and this is myth because inappropriate unit testing leads to high cost Defect fixing during System Testing, Integration Testing and even Beta Testing after application is built.
- If proper unit testing is done in early development, then it saves time and money in the end.
 1. Unit tests help to fix bugs early in the development cycle and save costs.
 2. It helps the developers to understand the testing code base and enables them to make changes quickly.
 3. Good unit tests serve as project documentation.
 4. Unit tests help with code re-use. Migrate both your code **and** your tests to your new project. Tweak the code until the tests run again.

Unit Testing Advantage

- Developers looking to learn what functionality is provided by a unit and how to use it can look at the unit tests to gain a basic understanding of the unit API.
- Unit testing allows the programmer to refactor code at a later date, and make sure the module still works correctly (i.e. Regression testing). The procedure is to write test cases for all functions and methods so that whenever a change causes a fault, it can be quickly identified and fixed.
- Due to the modular nature of the unit testing, we can test parts of the project without waiting for others to be completed.

Unit Testing Disadvantages

- Unit testing can't be expected to catch every error in a program. It is not possible to evaluate all execution paths even in the most trivial programs
- Unit testing by its very nature focuses on a unit of code. Hence it can't catch integration errors or broad system level errors.

7.2 Integration Testing

- Once the video manipulation functions were tested for efficiency, the projects were created, each with its own main class.
- The setup() and draw() functions were crafted to perform what each project hoped to achieve, integrating the sensors, video cameras, and green screens.
- Each project is tested separately by manually observing if the project is behaving as it is expected.

Why do Integration Testing?

➤ Test Cases for Login

Test Case 1	
Description	Login
Pre-condition	Admin and User know username and Password. Both Field should not be empty.
Test Action	Allow access or deny access.
Error Message	Invalid Username or Password.

➤ Test Cases for Registration

Test Case 2	
Description	Registration
Pre-condition	Field should not be empty and should be of database data type.
Test Action	Create new user.
Error Message	Enter Valid Data.

➤ **Test Cases for Add Admin Side**

Test Case	3
Description	Add/View/Update/Delete Data
Pre-condition	Field should not be empty.
Test Action	Data will be added/updated/deleted
Error Message	Invalid field Values..

➤ **Test Cases for Add Restaurant Side**

Test Case	3
Description	Add/View/Update/Delete Data
Pre-condition	Field should not be empty.
Test Action	Data will be added/updated/deleted
Error Message	Invalid field Values..

Advantages:

- Fault localization is easier.
- No time is wasted waiting for all modules to be developed unlike Big-bang approach

Disadvantages:

- Critical modules (at the top level of software architecture) which control the flow of application are tested last and may be prone to defects.
- An early prototype is not possible

8. Future Enhancement

- We can make our system platform independent which means that it can be work on any operating system.
- The website can be implemented on the internet in future.
- We give more security to the user.
- In future our website provide credit card and debit card payments as well as net banking with the security.
- A E-wallet can also transaction easy and safe.
- We can make site on international level.

9. Reference

1. <http://stackoverflow.com>
2. <http://www.sanfoundry.com>
3. <https://www.c-sharpcorner.com>
4. <http://w3school.com>
5. <https://microsoft.doc>