

# **FOOD ORDERING APPLICATION**

**Version No.: 1.0**

**Date: 12/07/2018**

**Project Name: Food Ordering Application**

**Presented by**

Shivangee Durgadas Kulkarni – A20429199

Dhivya Udaya Kumar – A20432502

## Revision History

Version No.	Date	Prepared by / Modified by	Significant Changes
1.0	12/07/2018	1. Shivangee Durgadas Kulkarni 2. Dhivya Udaya Kumar	Initial project proposal.

## WHO CAN REFER

---

This document can be referred by the following persons as a part of ITMD510 Object Oriented Application Development

- ✓ James Papademas
- ✓ Shivangee Durgadas Kulkarni
- ✓ Dhivya Udaya Kumar

## 1. INTRODUCTION

---

**Food Ordering Application** is a stand-alone application which can be accessed by Users to order food , track status ,update profile. Admin can update the menu items , view and update the customer details , view and update the order status. Customers can update the profile , place an order , add or remove from cart , track order and cancel the order that is placed. Higher Authority can view the Food Ordering Application and the performance of the application and provide the feedback to the developers.

### Cynosure of FOOD ORDERING SYSTEM

- ✓ Login and logout for each user.
- ✓ Update profile made easy as it fetches the records from the database in the textfields.
- ✓ Handled maximum exceptional handling and recorded all the exceptions in the database table to improve this application.
- ✓ Admin can view and update customer's details.
- ✓ Customer can add or delete the menu items from the cart.

## 1.2. EXPECTED OUTCOMES

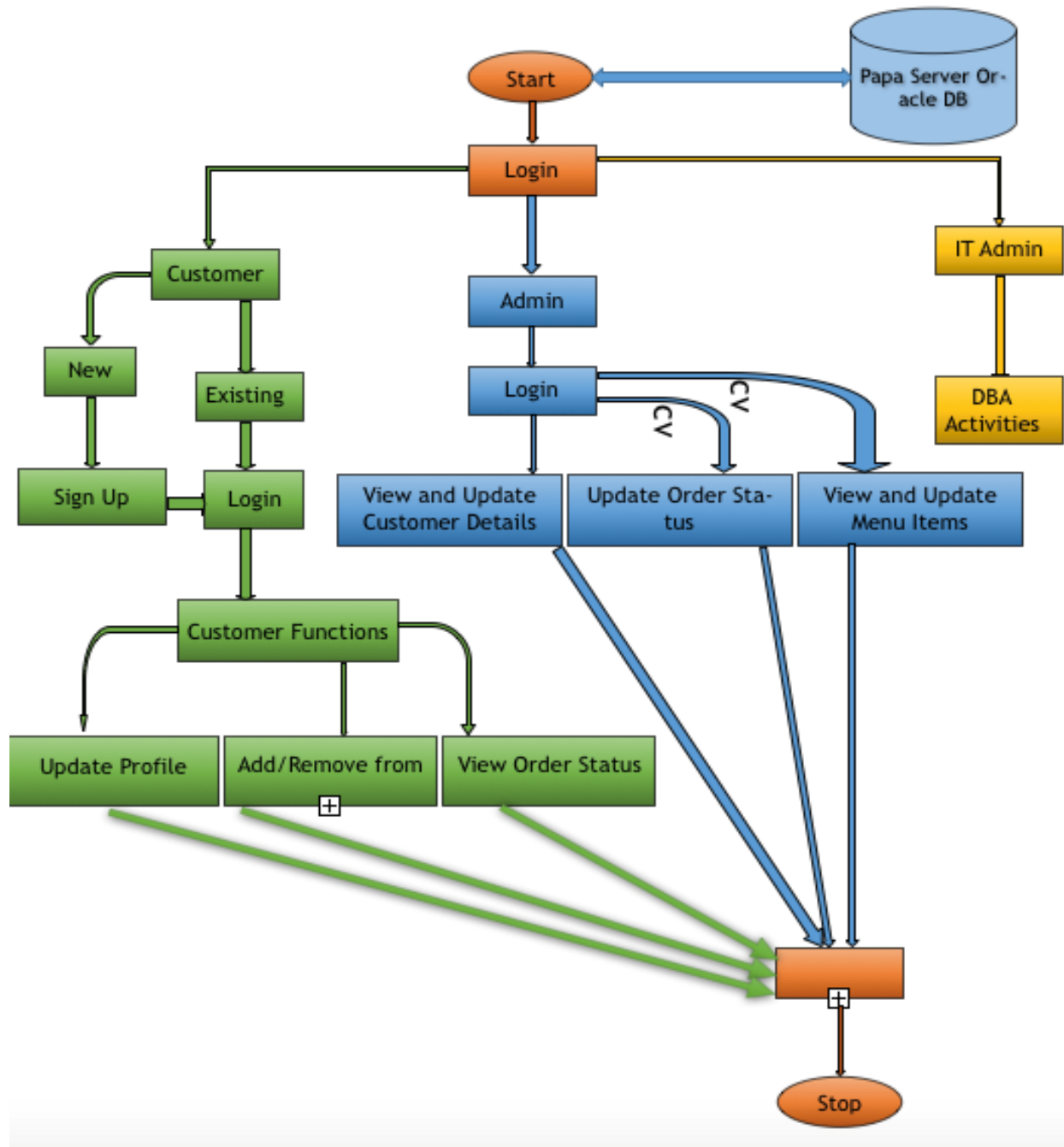
- ✓ Build a common platform for food ordering.
- ✓ Provide hassle-free application for the customers.
- ✓ Admin can view , add and update the customer details.
- ✓ Admin can view, add and update the menu items.
- ✓ Admin can view and update the order status.
- ✓ Customers can create an account , update the profile , add or remove menu items from cart and track order status.

## 2. TECHNICAL DETAILS

---

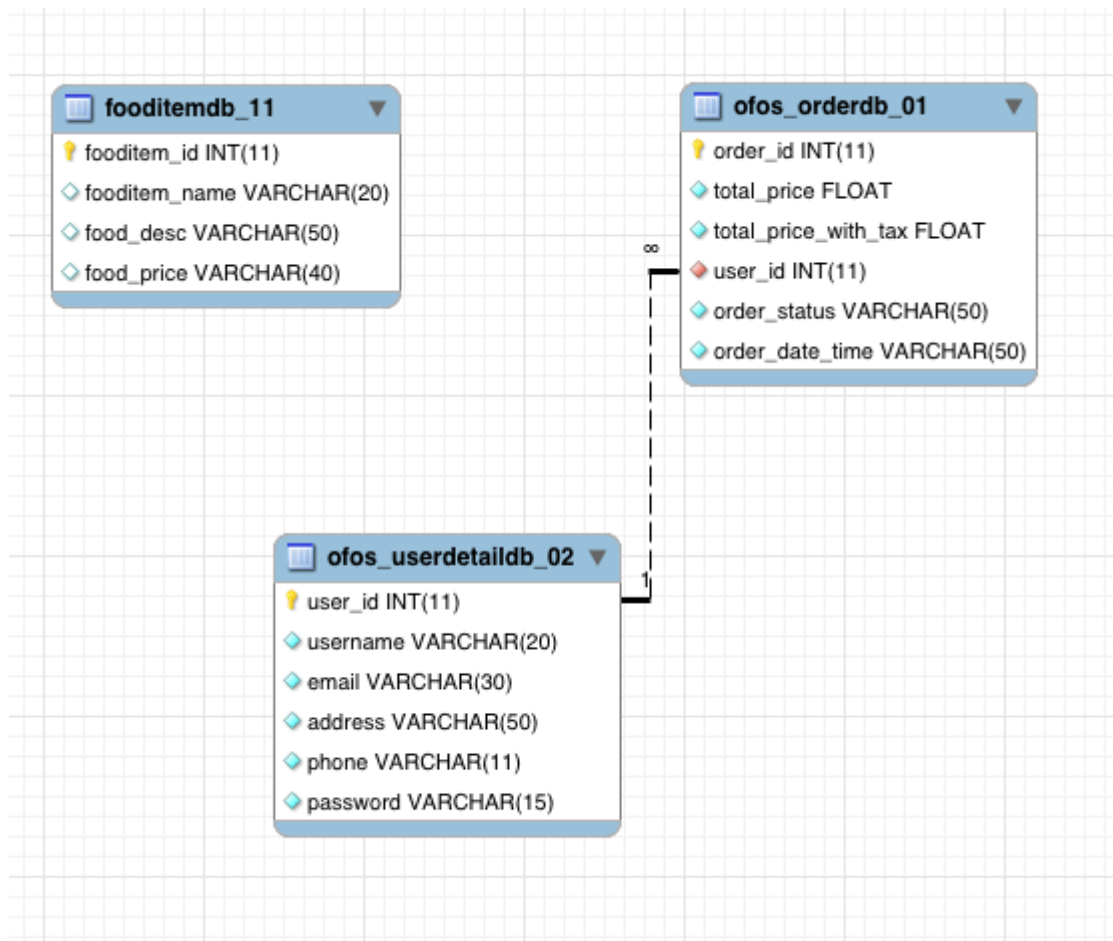
### 2.1. APPLICATION ARCHITECTURE

Below is the overview of the application and the navigation inside the application depending upon the category



## 2.2.UML





## 2.4. TECHNOLOGY USED

### 2.4.1. Front End

JavaFX: Software platform for creating and delivering desktop applications.

### 2.4.2. Back End

MySQL Developer: Integrated development environment for working with SQL in MySQL databases

### 2.4.3. Technical Requirements

Below is the technology that was required to build this project

1. Java
2. JavaFX
3. MySQL Database

### 2.4.4. Domain Knowledge Requirements

## Food Ordering System

### 2.4.5. Tools Used

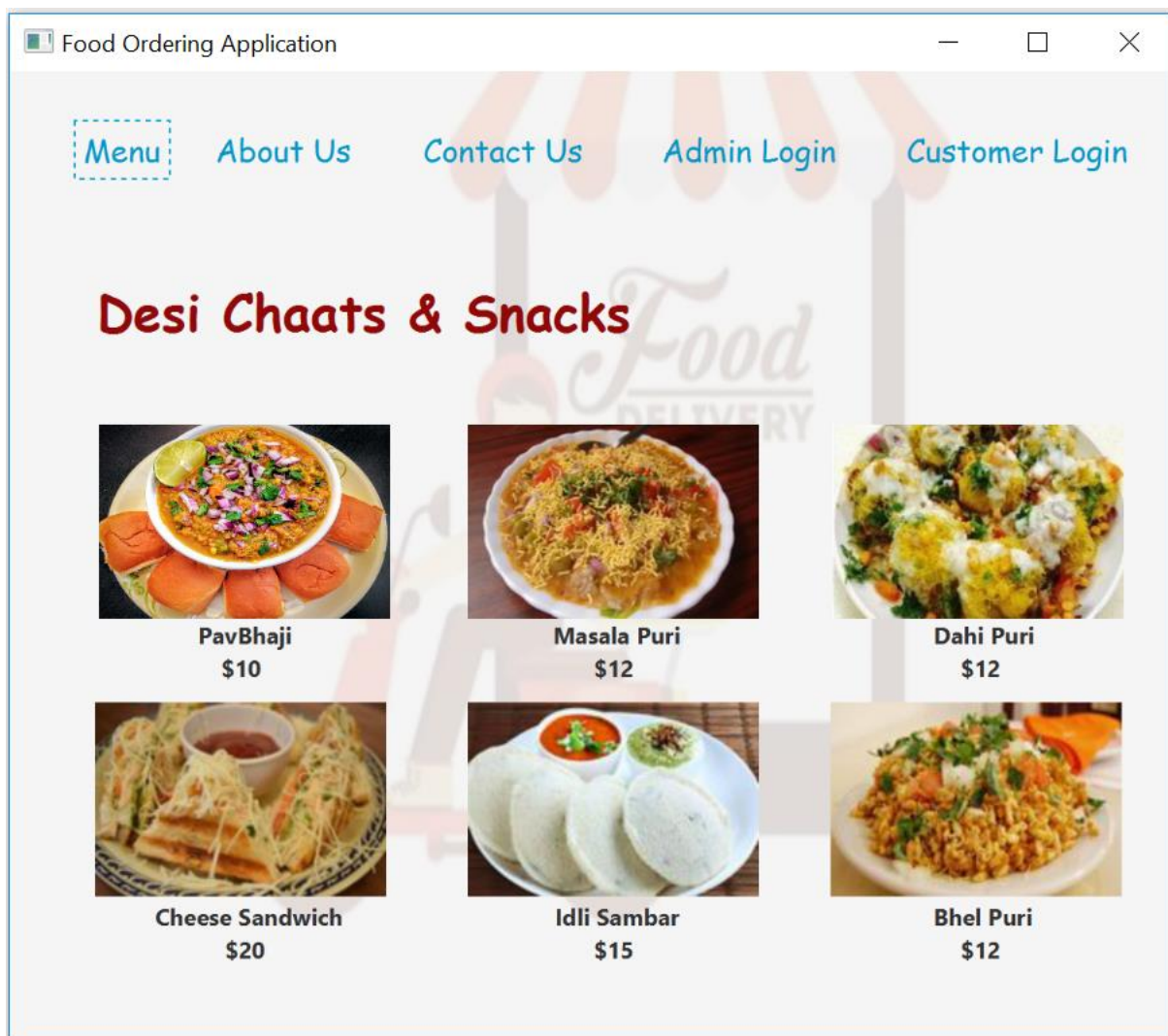
1. Java Eclipse Photon
2. Oracle SQL Developer

## 3.HOME PAGE

### 3.1.Home page

Home Page is common for admin and customer. The page has hyperlinks to navigate to Menu page, About Us, Contact Us, Admin Login and Customer Login screens.

### 3.2.Screenshot



## 4.LOGIN

---

### 4.1. Login Screen

#### 4.1.1. Admin Login

Login screen for admin will be displayed when the Admin login hyperlink is clicked on the home page.

When the administrator logs in he/she must enter their User Name in the User Name text box, and Password in the Password field.

If the username or password value is not entered and left as blank or if the values don't match with the admin username and password defined in the Java code, error message will be displayed on the bottom of the screen stating that the credentials are invalid.

Once the required fields are filled with valid entries, the admin will be navigated to a dashboard of admin operations.

S. No	Email-ID	Password	Description
1	admin	<a href="#">admin123</a>	Successful Login
2	admin	<a href="#">admin1234</a>	Credentials are invalid

#### 4.1.2. Customer Login

Login screen for customer will be displayed when the Customer login hyperlink is clicked on the home page.

When a customer user logs in he/she must enter their User Name in the User Name text box, and Password in the Password field.

If the username or password value is not entered and left as blank or if the values don't match with credentials stored in the database, error message will be displayed on the bottom of the screen stating that the credentials are invalid.

Once the required fields are filled with valid entries, the customer will be navigated to a customer dashboard.

S. No	Email-ID	Password	Description
1	Bob	<a href="#">bob123</a>	Successful Login
2	Bobby	<a href="#">bob123</a>	Credentials are invalid


#### 4.1.3. Screenshot


##### 4.1.3.1. Admin Login page entry



Food Ordering Application

## Admin Login






Sign In


Home

**4.1.3.2.** Invalid credentials scenario

Food Ordering Application

## Admin Login






Invalid Credentials! Please try again!


**4.1.3.3.** Successful login will navigate the administrator to the admin dashboard

**4.1.3.4.** Customer login entry page

Food Ordering Application

## Customer Login







Not a customer yet? [Sign Up](#)

**4.1.3.5.** Invalid credentials scenario

Food Ordering Application

## Customer Login

 Bobby

 .....

Sign In Home

Not a customer yet? [Sign Up](#)

Invalid credentials! Please try again!

**4.1.3.6.** Upon entering valid credentials, the user will be navigated to customer dashboard.

## 5.CUSTOMER SIGN UP

### 5.1. Sign up screen

A new user can click on the Sign Up hyperlink on the login screen to navigate the sign up screen and register to the Food Ordering Application.

The user needs to enter valid entries in all the fields – Name, Email address, Address, Phone Number, Password and Confirm Password.

If the fields are left blank, when clicking on Sign Up button, error message will be displayed stating that the fields are mandatory.

Even after the user fills in all the fields, validations have been added for email, phone number and confirm password fields to ensure that valid entries are recorded in the database.

Email address is checked to ensure that it ends with only the following domain names:

1. @gmail.com
2. @yahoo.com
3. @hawk.iit.edu

If any other format is used, an error message will be displayed stating the user should enter a valid email address.

Phone number is validated to ensure that the user enters only 10 characters in the text box, and that the entry has only numeric digits (0-9) and no other characters.

If the user enters different values in the password and confirm password fields, the user will be prompted that the passwords don't match.

After filling all the text boxes with valid information and clicking on Sign Up button, the user will be navigated back to login screen to enter the credentials to login to the application.

## **5.2. Screenshot**

### **5.2.1. Sign Up page entry**

Food Ordering Application

## Sign Up

Name	<input type="text"/>
Email Address	<input type="text"/>
Address	<input type="text"/>
Phone Number	<input type="text"/>
Password	<input type="password"/>
Confirm Password	<input type="password"/>

[Back to Home](#) [Sign Up](#)

### 5.2.2. Empty fields prompt

Food Ordering Application

## Sign Up

Name	<input type="text"/>	Please enter a name
Email Address	<input type="text"/>	Please enter an e-email address
Address	<input type="text"/>	Please enter a billing address
Phone Number	<input type="text"/>	Please enter a contact number
Password	<input type="password"/>	Please enter a password
Confirm Password	<input type="password"/>	Please enter a password

[Back to Home](#) [Sign Up](#)

**5.2.3.** Validation errors on Email Address, Phone Number and Confirm password fields:

Food Ordering Application

## Sign Up

Name

Email Address   
*Please enter a valid e-mail address*

Address

Phone Number   
*Please enter a valid phone number*

Password

Confirm Password   
*Please re-enter your password*

**5.2.4.** All fields entered correctly as below, will direct the customer to login screen on clicking the Sign Up button.



Food Ordering Application

## Sign Up

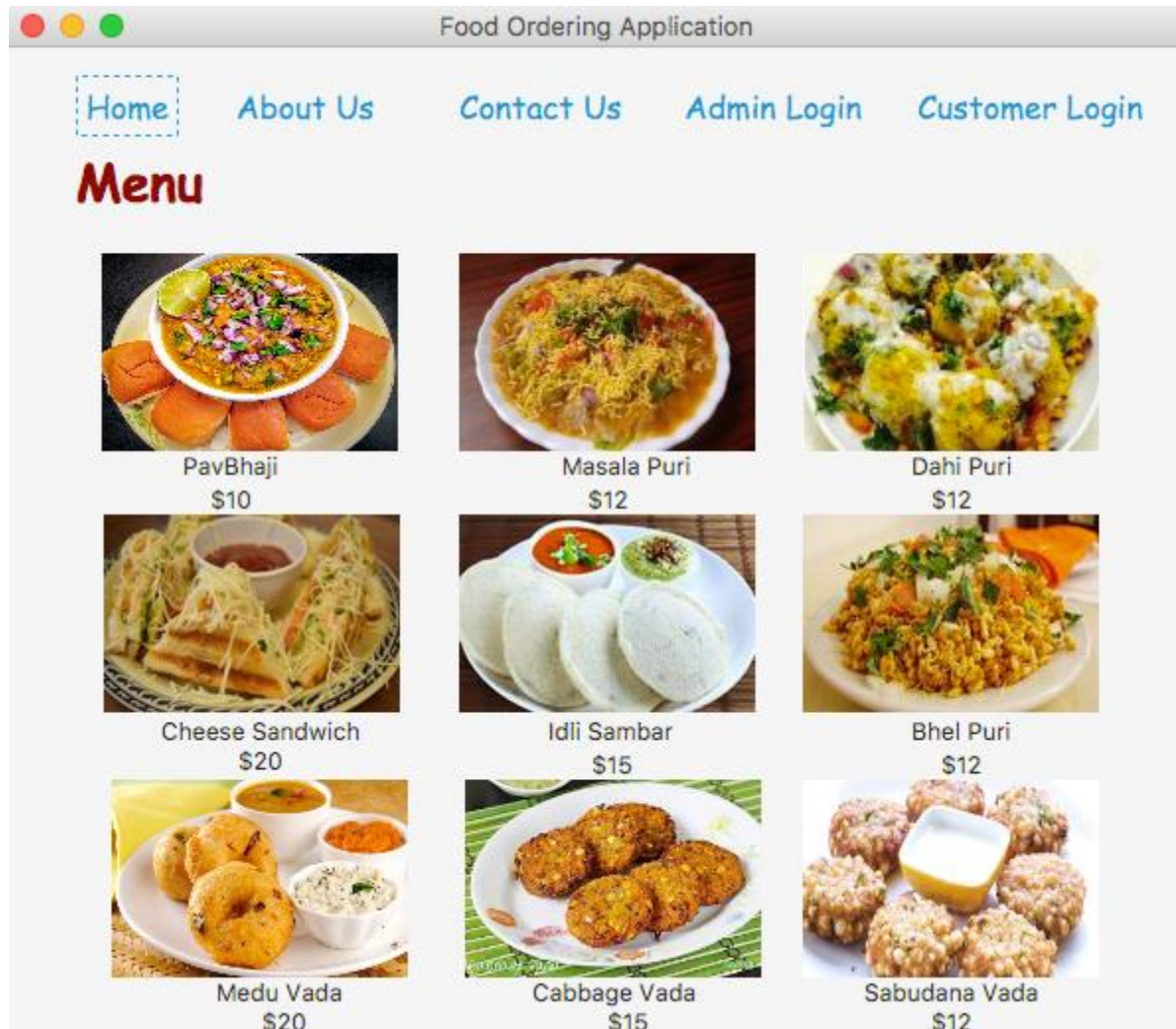
Name	<input type="text" value="sam"/>
Email Address	<input type="text" value="sam@yahoo.com"/>
Address	<input type="text" value="Chicago"/>
Phone Number	<input type="text" value="3124422234"/>
Password	<input type="password" value="....."/>
Confirm Password	<input type="password" value="....."/>

[Back to Home](#) [Sign Up](#)

## 6.MENU PAGE

### 6.1. Menu Page:

This page displays all the menu items with images to the users. There are the links to navigate to the Home , About Us , Contact Us , Admin Login , Customer Login. The users can view the available food items and their price.



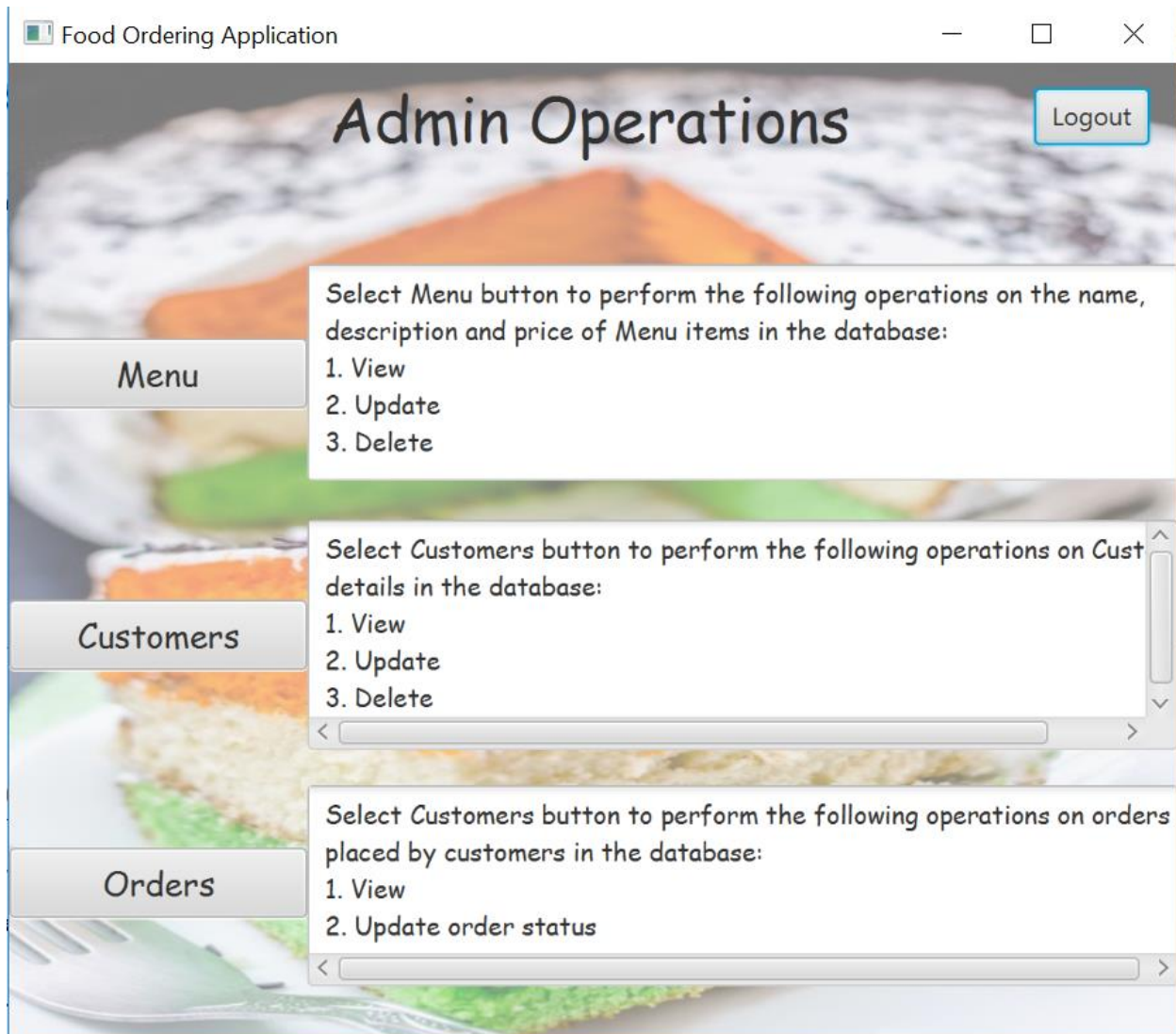
## 7.ADMIN DASHBOARD

---

### 7.1.Admin dashboard

The Admin dashboard displays options and description on the operations possible for the admin

### 7.2.Screenshot



## 8. MENU DETAIL OPERATIONS

### 8.1. Functionalities:

The Admin can view, add, delete and update the menu items which are automatically populated into the table from database.

**Add:** The admin can enter the Menu item name, price and description in the text boxes at the bottom of the screen. On clicking the add button, the details get inserted in database. The updated database reflects in the table view.

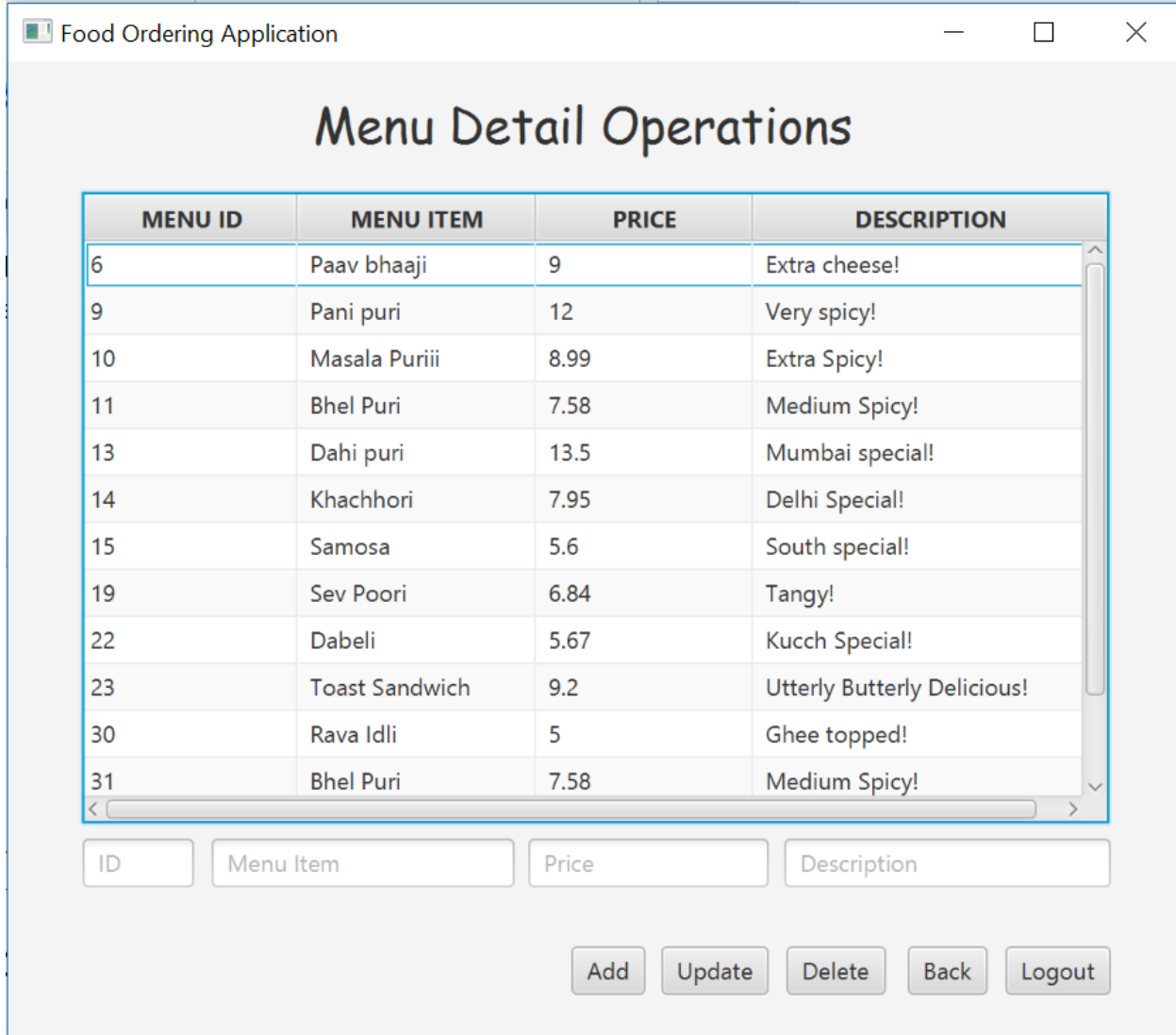
**Update:** The admin clicks on a row on the table. The row records will render in the text fields. The admin can edit the text fields and click on update button to commit those changes to database and the table view.

**Delete:** The admin clicks on a row on the table. The row records will render in the text fields. The admin can click on delete button to delete the record from database and the table view.

**Back:** Back button will redirect admin to go back to the dashboard.

**Logout:** Logout button will log the admin out of the application and navigate back to login screen.

## 8.2.Screenshot



**Menu Detail Operations**

MENU ID	MENU ITEM	PRICE	DESCRIPTION
6	Paav bhaaji	9	Extra cheese!
9	Pani puri	12	Very spicy!
10	Masala Puri	8.99	Extra Spicy!
11	Bhel Puri	7.58	Medium Spicy!
13	Dahi puri	13.5	Mumbai special!
14	Khachhori	7.95	Delhi Special!
15	Samosa	5.6	South special!
19	Sev Poori	6.84	Tangy!
22	Dabeli	5.67	Kucch Special!
23	Toast Sandwich	9.2	Utterly Butterly Delicious!
30	Rava Idli	5	Ghee topped!
31	Bhel Puri	7.58	Medium Spicy!

Add
Update
Delete
Back
Logout

## 9.CUSTOMER DETAIL OPERATIONS

### 9.1.Functionalities:

The Admin can view, add, delete and update the customer details which are automatically populated into the table view from database.


**Update:** The admin clicks on a row on the table. The row records will render in the text fields. The admin can edit the text fields and click on update button to commit those changes to database and the table view.

**Delete:** The admin clicks on a row on the table. The row records will render in the text fields. The admin can click on delete button to delete the record from database and the table view.

**Back:** Back button will redirect admin to go back to the dashboard.

**Logout:** Logout button will log the admin out of the application and navigate back to login screen.

## 9.2.Screenshot

 Food Ordering Application
— □ ×

## Customer Detail Operations

ID	NAME	EMAIL	ADDRESS	PHONE
3	Bob	bob@gmail.com	Chicago IL	6677554567
4	Monika	monika@gmail.com	Chicago IL	3423333333
7	Dhivya	dhivya@gmail.com	Chicago IL	3124567872
8	Shivangee	shivangee@gmail.com	Chicago IL	3124332211
25	Sim	sim@gmail.com	New York	3124562234
26	Jill	jill@gmail.com	San Fransico	3122342234
30	Farhan	farhan@gmail.com	California	3124444444
35	Vicky Chauhan	vick@gmail.com	SanDeigo	1234567890
36	Doll	dol@yahoo.com	Dallas	9876543210
37	Phil	phil@hotmail.com	Philadelphia	2341567895
39	Simmy	sim@yahoo.com	Washington	1535745423
89	Dhoni	dhoni@gmail.com	London	3121234567

## 10.ORDER DETAIL OPERATIONS

### 10.1.Functionalities:

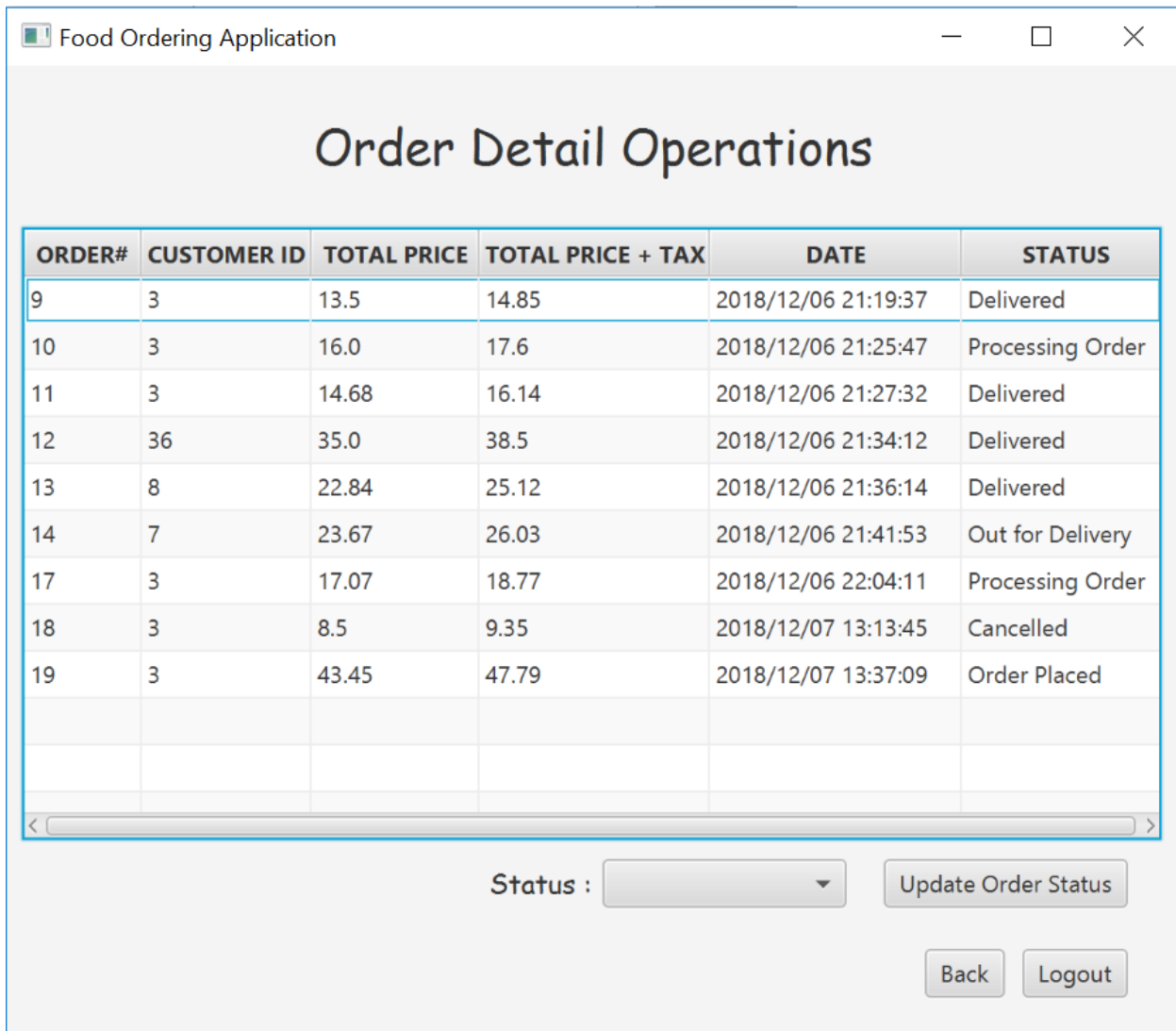
The Admin can view and update the orders by changing the status. The orders are automatically populated into the table from database.

**Update:** The admin clicks on a row on the table, then selects a new status option and clicks on update to change the status of the order. This change is committed to database and the table view. The customer will be able to track this status.

**Back:** Back button will redirect admin to go back to the dashboard.

**Logout:** Logout button will log the admin out of the application and navigate back to login screen.

### 10.2.Screenshot



The screenshot shows a web application window titled "Food Ordering Application". The main heading is "Order Detail Operations". Below the heading is a table with the following data:

ORDER#	CUSTOMER ID	TOTAL PRICE	TOTAL PRICE + TAX	DATE	STATUS
9	3	13.5	14.85	2018/12/06 21:19:37	Delivered
10	3	16.0	17.6	2018/12/06 21:25:47	Processing Order
11	3	14.68	16.14	2018/12/06 21:27:32	Delivered
12	36	35.0	38.5	2018/12/06 21:34:12	Delivered
13	8	22.84	25.12	2018/12/06 21:36:14	Delivered
14	7	23.67	26.03	2018/12/06 21:41:53	Out for Delivery
17	3	17.07	18.77	2018/12/06 22:04:11	Processing Order
18	3	8.5	9.35	2018/12/07 13:13:45	Cancelled
19	3	43.45	47.79	2018/12/07 13:37:09	Order Placed

Below the table, there is a "Status :" label followed by a dropdown menu. To the right of the dropdown is an "Update Order Status" button. At the bottom right, there are two buttons: "Back" and "Logout".



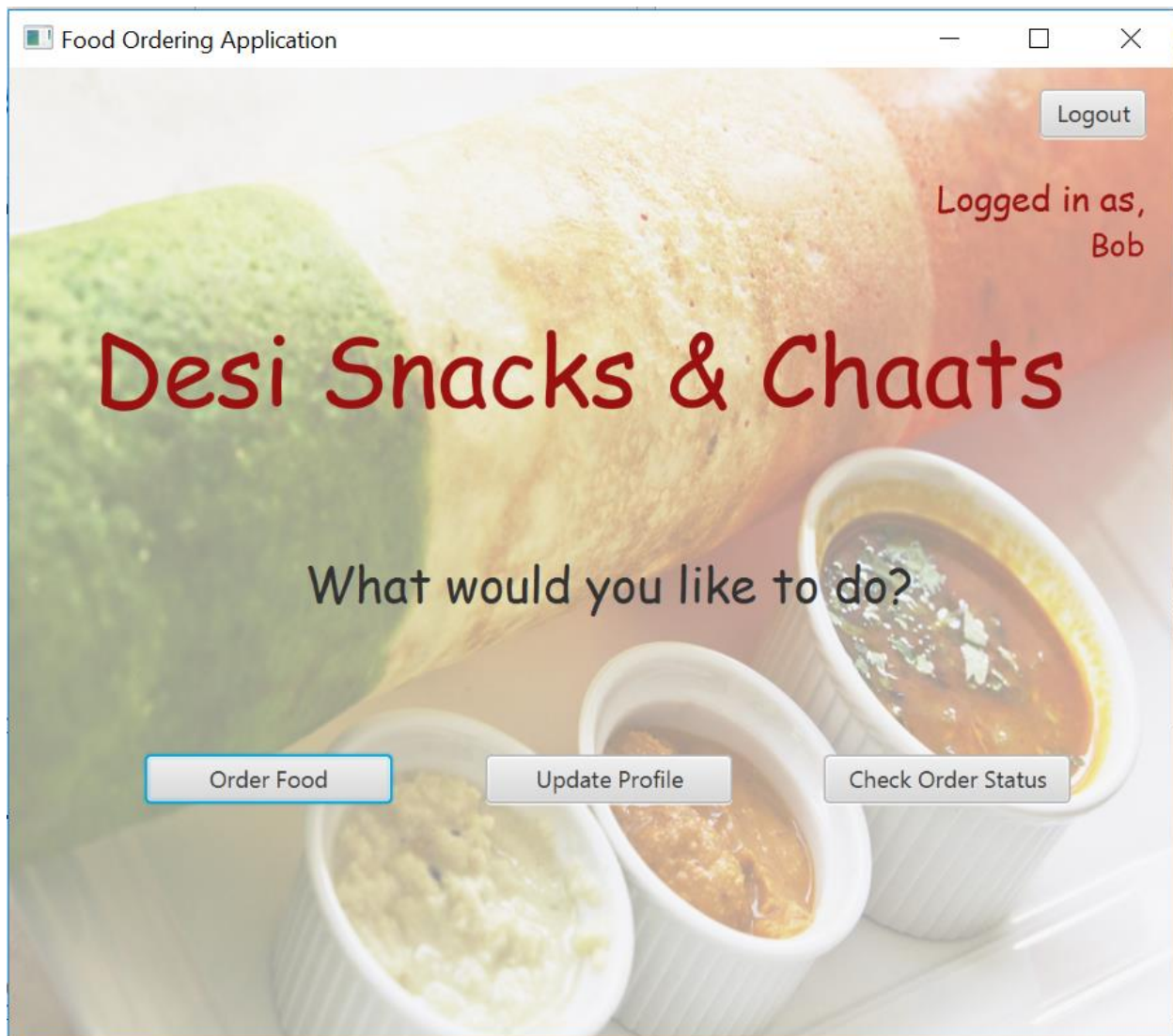
## 11. CUSTOMER DASHBOARD

---

### 11.1. Dashboard

The customer dashboard allows the user to select between the various operation possible for the customer- Order food, Update Profile, Check Order status and Logout.

### 11.2. Screenshot



## 12. ORDER FOOD (ADD TO CART)

---

**12.1.** The customer can choose menu items from the menu table, select the quantity and add them to cart one at a time.

### 12.2. Screenshots

### 12.2.1. Add to Cart page entry

Food Ordering Application

Logged in as,  
**Bob**

## Add To Cart

MENU ITEM ID	MENU ITEM	PRICE	DESCRIPTION
6	Paav bhaaji	9	Extra cheese!
9	Pani puri	12	Very spicy!
10	Masala Puriii	8.99	Extra Spicy!
11	Bhel Puri	7.58	Medium Spicy!
13	Dahi puri	13.5	Mumbai special!
14	Khachhori	7.95	Delhi Special!
15	Samosa	5.69	South special!
16	Vada Paav	8.5	Extra cheese!
19	Sev Poori	6.84	Tangy!
22	Dabeli	5.67	Kucch Special!
23	Toast Sandwich	9.2	Utterly Butterly Delicious!
30	Rava Idli	5	Ghee topped!

Select Quantity

ID	MENU ITEM	QUANTITY
No content in table		

Price

Tax(%)

Total Price

**12.2.2.** Customer adds items to cart. Price, tax and total price with tax can be viewed in the text fields for Price, price with tax below the cart.



Food Ordering Application

Dashboard Logout

Logged in as, Bob

## Add To Cart

MENU ITEM ID	MENU ITEM	PRICE	DESCRIPTION
6	Paav bhaaji	9	Extra cheese!
9	Pani puri	12	Very spicy!
10	Masala Puri	8.99	Extra Spicy!
11	Bhel Puri	7.58	Medium Spicy!
13	Dahi puri	13.5	Mumbai special!
14	Khachhori	7.95	Delhi Special!
15	Samosa	5.6	South special!
19	Sev Poori	6.84	Tangy!
22	Dabeli	5.67	Kuch Special!
23	Toast Sandwich	9.2	Utterly Butterly Delicious!
30	Rava Idli	5	Ghee topped!
31	Bhel Puri	7.58	Medium Spicy!

Select Quantity

ID	MENU ITEM	QUANTITY
9	Pani puri	1
10	Masala Puri	2

Price   
Tax(%)   
Total Price

**12.2.3.** If the customer forgets to select the quantity while adding to cart, message will be prompted to the user.

Food Ordering Application

Dashboard Logout

Logged in as, Bob

## Add To Cart

MENU ITEM ID	MENU ITEM	PRICE	DESCRIPTION
6	Paav bhaaji	9	Extra cheese!
9	Pani puri	12	Very spicy!
10	Masala Puri	8.99	Extra Spicy!
11	Bhel Puri	7.58	Medium Spicy!
13	Dahi puri	13.5	Mumbai special!
14	Khachhori	7.95	Delhi Special!
15	Samosa	5.6	South special!
19	Sev Poori	6.84	Tangy!
22	Dabeli	5.67	Kuch Special!
23	Toast Sandwich	9.2	Utterly Butterly Delicious!
30	Rava Idli	5	Ghee topped!
31	Bhel Puri	7.58	Medium Spicy!

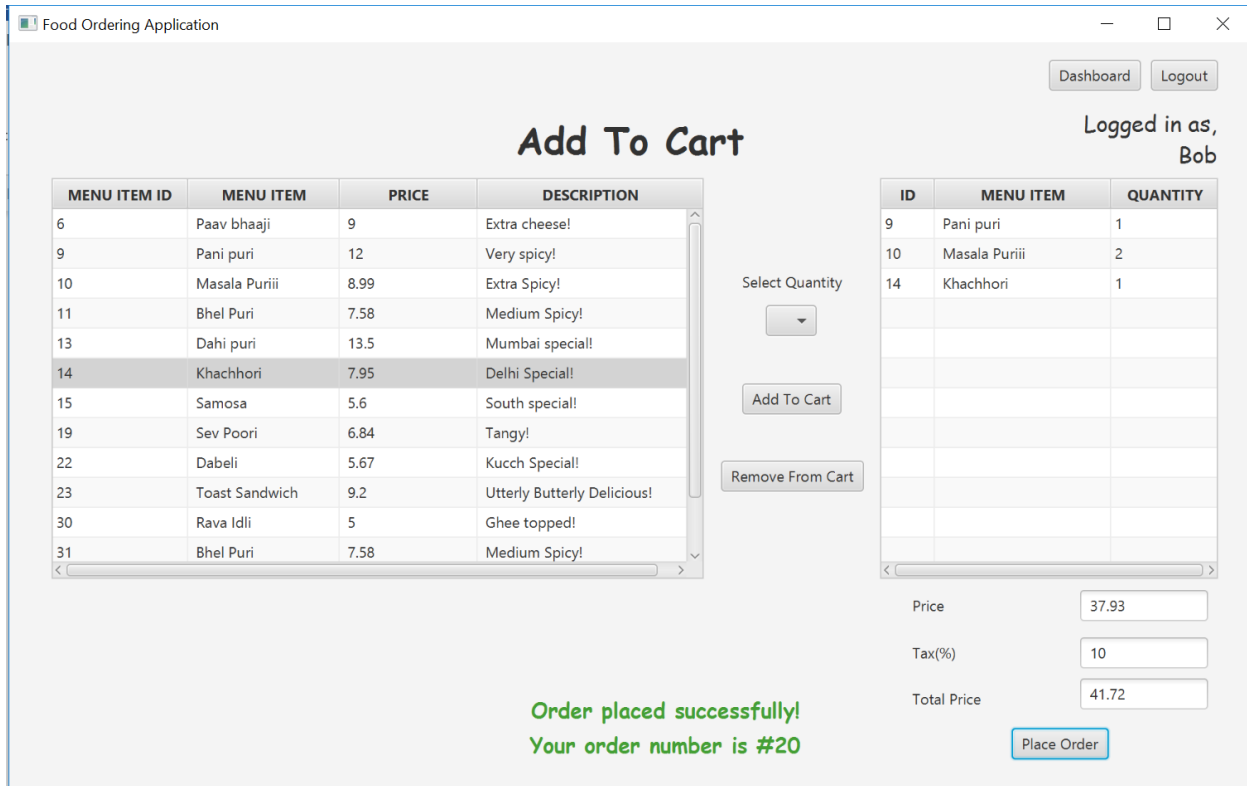
Select Quantity

ID	MENU ITEM	QUANTITY
9	Pani puri	1
10	Masala Puri	2

Price   
Tax(%)   
Total Price

Please select a quantity

**12.2.4.** Once the user adds the items to cart and clicks on place order button, a message is prompted on screen that the order has been placed, along with the order number.



**Food Ordering Application**

[Dashboard](#) [Logout](#)  
 Logged in as, Bob

## Add To Cart

MENU ITEM ID	MENU ITEM	PRICE	DESCRIPTION
6	Paav bhaaji	9	Extra cheese!
9	Pani puri	12	Very spicy!
10	Masala Puri	8.99	Extra Spicy!
11	Bhel Puri	7.58	Medium Spicy!
13	Dahi puri	13.5	Mumbai special!
14	Khachhori	7.95	Delhi Special!
15	Samosa	5.6	South special!
19	Sev Poori	6.84	Tangy!
22	Dabeli	5.67	Kuch Special!
23	Toast Sandwich	9.2	Utterly Butterly Delicious!
30	Rava Idli	5	Ghee topped!
31	Bhel Puri	7.58	Medium Spicy!

Select Quantity

Add To Cart

Remove From Cart

ID	MENU ITEM	QUANTITY
9	Pani puri	1
10	Masala Puri	2
14	Khachhori	1

Price: 37.93

Tax(%): 10

Total Price: 41.72

[Place Order](#)

Order placed successfully!  
 Your order number is #20

## 13.UPDATE PROFILE

**13.1.** The customer can update one's profile by clicking on the Update Profile button on the dashboard. The update profile page will auto populate the customer's details from the database. The user can then just click on any text field and click on the update button to update the profile.

### 13.2.Screenshots

#### 13.2.1. Update profile entry

Food Ordering Application

## My Profile

Back LogOut

Bob

Name	<input type="text" value="Bob"/>
Email Address	<input type="text" value="bob@gmail.com"/>
Address	<input type="text" value="Chicago IL"/>
Phone Number	<input type="text" value="6677554567"/>

Update Profile

### 13.2.2. Updated profile

Food Ordering Application

## My Profile

Back LogOut

Bob

Name	Bob
Email Address	bob@gmail.com
Address	Chicago
Phone Number	6677554567

Your profile has been updated successfully!

Update Profile

## 14.ORDER HISTORY

**14.1.**The customer can track one's current and past orders by click on Check order status button on the dashboard.

### 14.2.Screenshots

**14.2.1.** Track order page entry will populate the table with the past and current order along with statuses and data-time when the order was placed.

Food Ordering Application

Logged in as, Bob

## Order History

ORDER #	TOTAL PRICE	TOTAL PRICE + TAX	DATE	STATUS
9	13.5	14.85	2018/12/06 21:19:37	Delivered
10	16.0	17.6	2018/12/06 21:25:47	Processing Order
11	14.68	16.14	2018/12/06 21:27:32	Delivered
17	17.07	18.77	2018/12/06 22:04:11	Processing Order
18	8.5	9.35	2018/12/07 13:13:45	Cancelled
19	43.45	47.79	2018/12/07 13:37:09	Order Placed
20	37.93	41.72	2018/12/07 21:32:42	Order Placed

< >

Cancel Order Dashboard Logout

**14.2.2.** The customer can choose to cancel the order as long as the order has not yet begun processing.

Food Ordering Application

Logged in as,  
Bob

## Order History

ORDER #	TOTAL PRICE	TOTAL PRICE + TAX	DATE	STATUS
9	13.5	14.85	2018/12/06 21:19:37	Delivered
10	16.0	17.6	2018/12/06 21:25:47	Processing Order
11	14.68	16.14	2018/12/06 21:27:32	Delivered
17	17.07	18.77	2018/12/06 22:04:11	Processing Order
18	8.5	9.35	2018/12/07 13:13:45	Cancelled
19	43.45	47.79	2018/12/07 13:37:09	Cancelled
20	37.93	41.72	2018/12/07 21:32:42	Order Placed

[Cancel Order](#)[Dashboard](#)[Logout](#)

Your Order #19 has been cancelled.

**14.2.3.** The customer cannot cancel any order with status other than “Order Placed”

Food Ordering Application

—

□

×

Logged in as, Bob

## Order History

ORDER #	TOTAL PRICE	TOTAL PRICE + TAX	DATE	STATUS
9	13.5	14.85	2018/12/06 21:19:37	Delivered
10	16.0	17.6	2018/12/06 21:25:47	Processing Order
11	14.68	16.14	2018/12/06 21:27:32	Delivered
17	17.07	18.77	2018/12/06 22:04:11	Processing Order
18	8.5	9.35	2018/12/07 13:13:45	Cancelled
19	43.45	47.79	2018/12/07 13:37:09	Cancelled
20	37.93	41.72	2018/12/07 21:32:42	Order Placed

Cancel Order

Dashboard

Logout

Order #17 cannot be cancelled.

**14.2.4.** The customer has options to navigate back to dashboard or logout of the application.

## 15.DATABASE TABLES

1. fooditemdb\_11
2. OFOS\_UserDetailDB\_02
3. OFOS\_OrderDB\_01

## 16.EXCEPTION HANDLING

One of the most important aspect is error trapping and error handling which is incorporated in the food ordering application. Maximum Exception Handling has been covered.

In this application exception handling is covered for each field which will be filled or left blank.