



SOFTWARE DEVELOPMENT -V

PRIMARY PROPOSAL

RESTAURANT MANAGEMENT SYSTEM

Online and offline management of a restaurant

SUBMITTED BY

MD. MASUD RANA | 15-01-04-134

KAZI HASIB AHMED | 15-01-04-135

MD. AMIR HAMZA | 15-01-04-118

Motivation:

We want to make this project for the purpose of making a restaurant management system easier. We know that managing a restaurant in old tradition is very costly and time consuming .To make the overall system efficient we want to make this management system. Here we want to serve our customer getting very efficient management system which will provide all kind of management like as workforce management, inventory control, tracking of sales, preparation of financial statement etc.

Features:

- On Place Features;
 - Add, delete, update staff info.
 - Add, delete, update food items, items price, equipment's and ingredients.
 - Prepare billing info.
 - View tracking of sales.
 - Prediction of ingredients needed for a specific day.
- Online Features:
 - Place food order for both on place and home delivery.
 - Reserve table.
 - Staff gives approval of order.
- Payment methods:
 - Cash.
 - Card.
 - Bkash.

Advantages:

- Decreases workload.
- Save time.
- Customer can easily order food
- Can easily track sale information

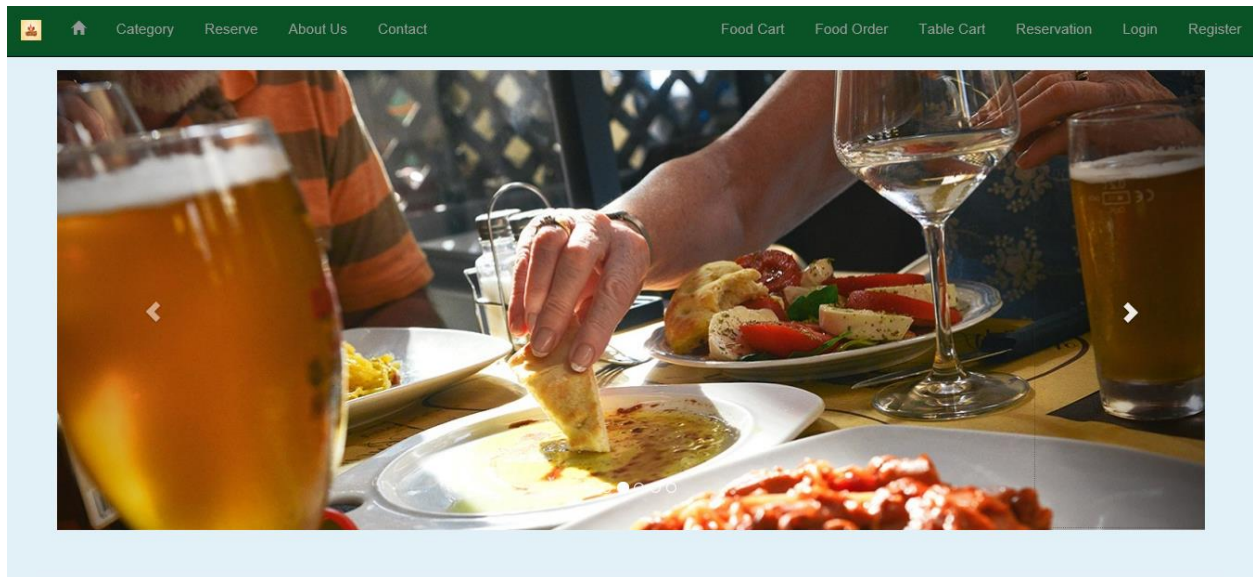
Completion Target:

We wanted to complete add, delete and update of staff info and food items, tracking of sales, reservation of table, place order of food items and approval of orders features. We wanted to complete these features only for cash payment.

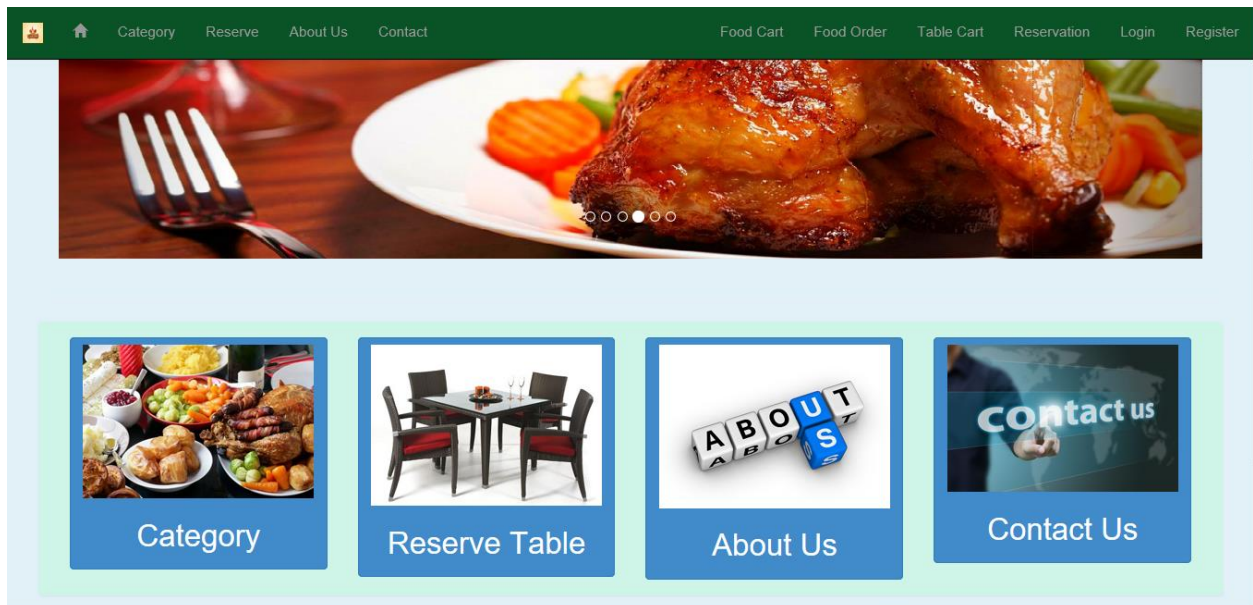
Completed Features:

Customer:

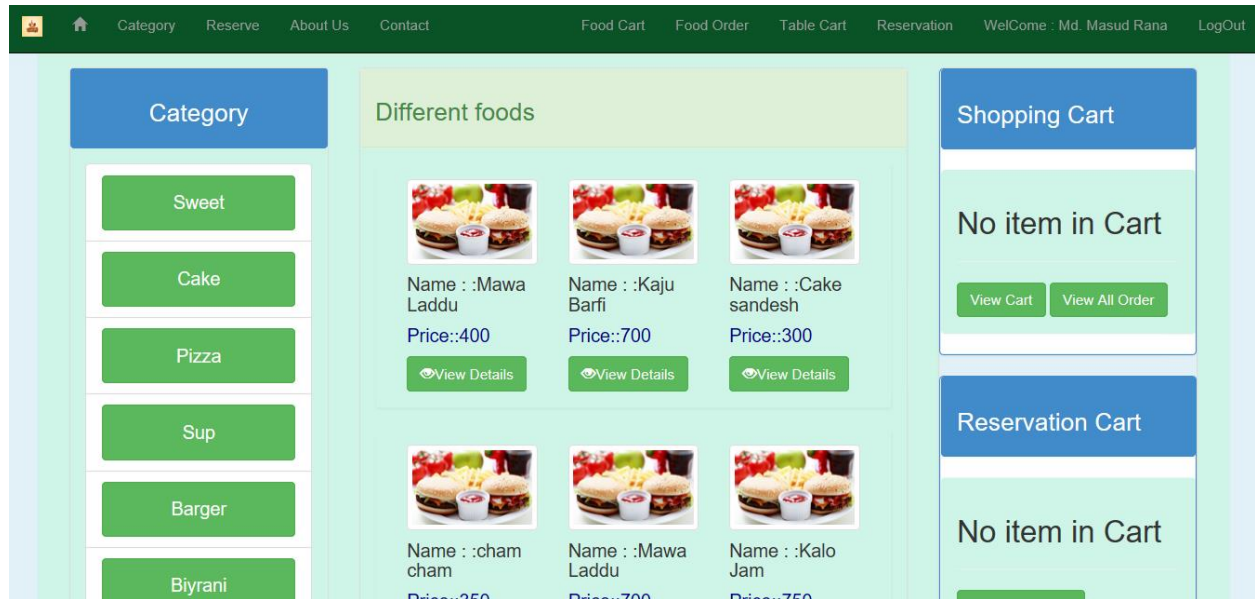
Customer home view.



Option view in 'Home'.

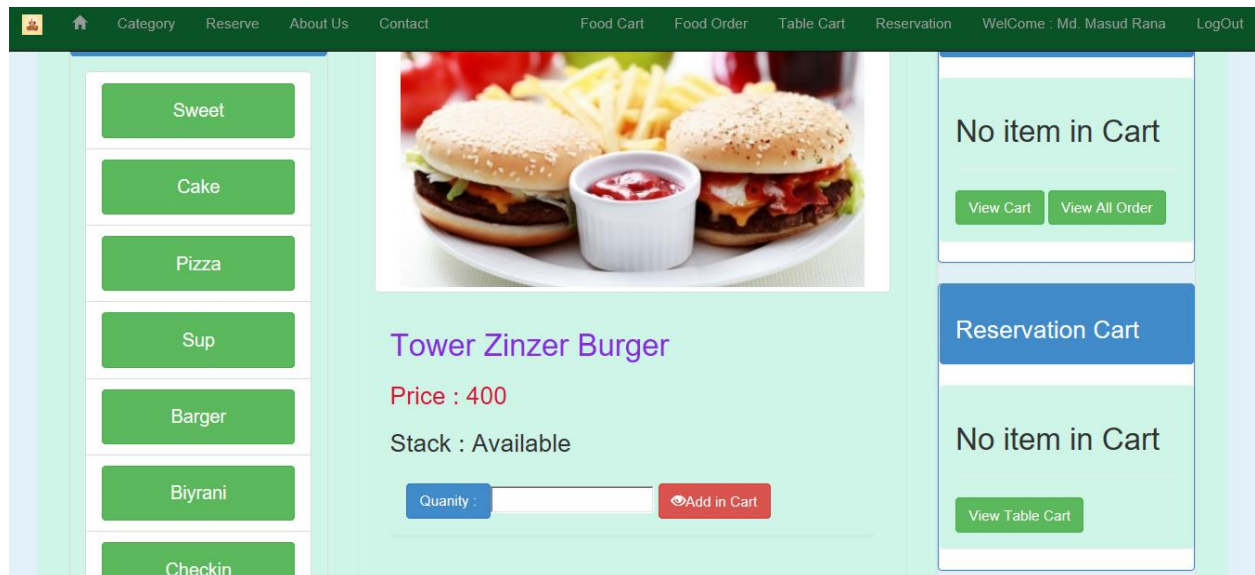


Select any category from 'Category' and view of items of that category. Press 'View Details' to see details of that item.

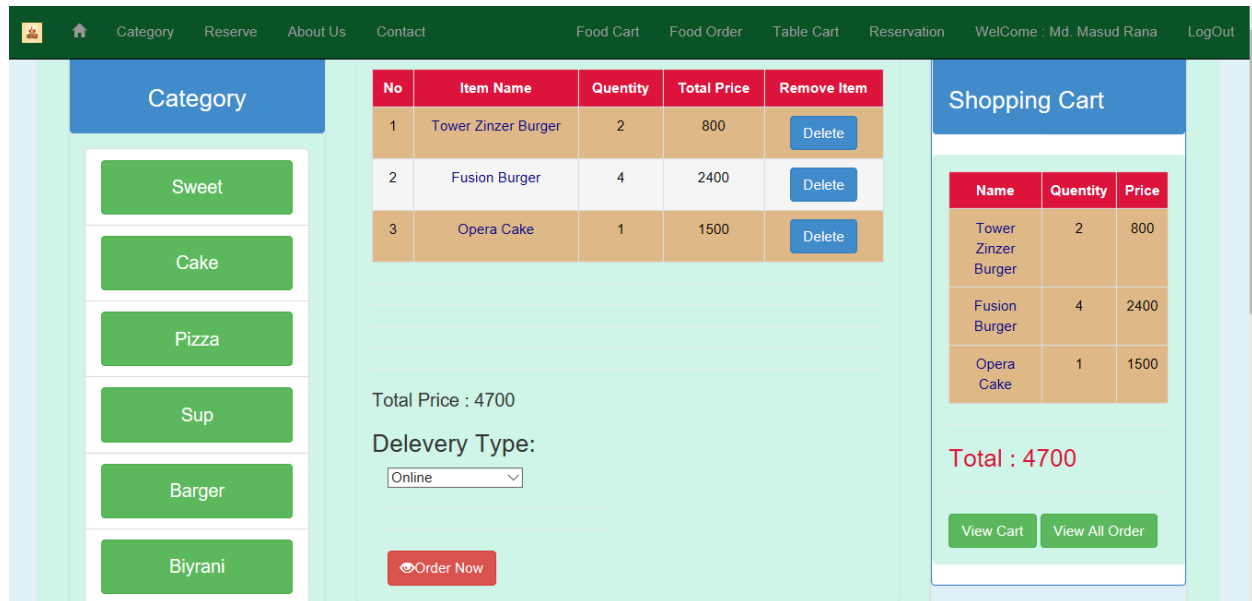


Food Order:

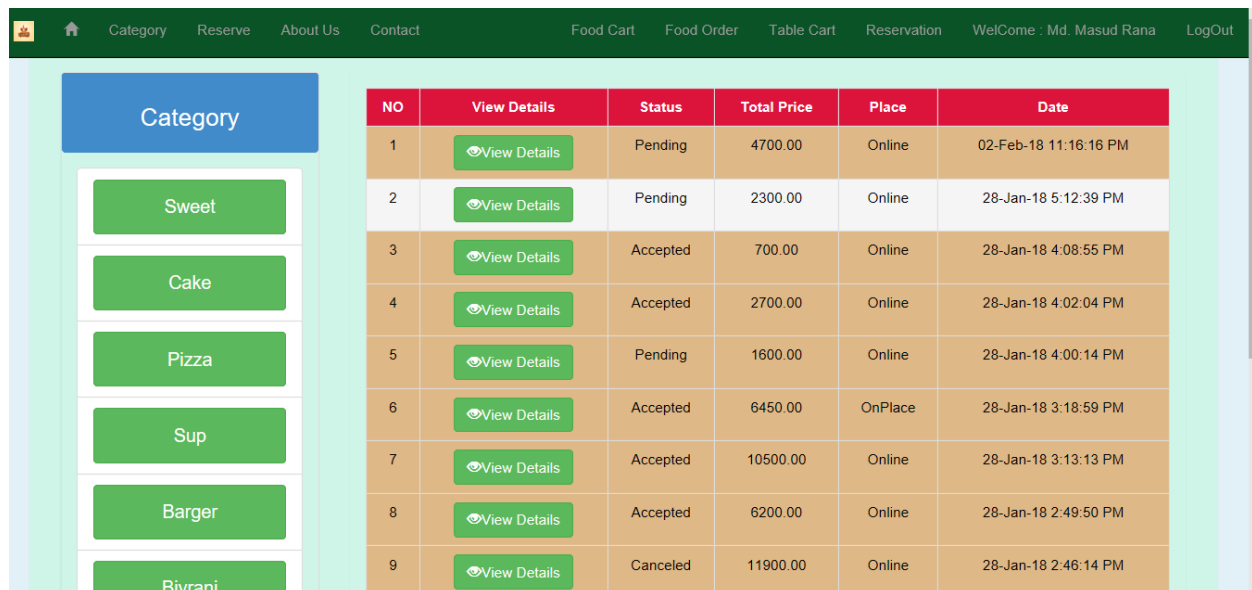
Customer can order food items with expected quantity of different categories.



Ordered food item details are added to the order cart and customer can remove them from cart if he / she wants to. Select 'Online' or 'On Place' and then place a food order request by pressing 'Order Now' button.



Customer can view his / her requested order status by pressing 'Food Order' in menu bar.



Press 'View Details' to view ordered items and quantity of that cart.

The screenshot shows a web application interface for a food cart. The top navigation bar includes links for Category, Reserve, About Us, Contact, Food Cart, Food Order, Table Cart, Reservation, and a welcome message for Md. Masud Rana. The main content area is divided into three sections:

- Category:** A vertical list of buttons for Sweet, Cake, Pizza, and Sup.
- Food Cart:** A table listing items in the cart.
- Shopping Cart:** A section indicating 'No item in Cart' with buttons for View Cart and View All Order.
- Reservation Cart:** A section for reservations.

NO	item Name	Quantity	Price	Date
1	Tower Zinzer Burger	2	800.00	02-Feb-18 11:16:16 PM
2	Fusion Burger	4	2400.00	02-Feb-18 11:16:16 PM
3	Opera Cake	1	1500.00	02-Feb-18 11:16:16 PM

Reservation:

Customer can add tables to 'Reservation Cart' of different capacity by pressing 'Add To Cart'.

The screenshot shows a web application interface for table reservations. The top navigation bar is identical to the previous page. The main content area is divided into three sections:

- All Table Details:** A red box containing an image of a table and chairs.
- Table Cart:** A table listing table options with their capacity and an 'Add in Cart' button.
- Shopping Cart:** A section indicating 'No item in Cart' with buttons for View Cart and View All Order.
- Reservation Cart:** A section indicating 'No item in Cart'.

No	No of Chairs	Add in Cart
1	4	Add in Cart
2	6	Add in Cart
3	2	Add in Cart
4	6	Add in Cart
5	10	Add in Cart
6	8	Add in Cart
7	8	Add in Cart
8	4	Add in Cart
9	4	Add in Cart

Reservation table details are added to the 'Reservation Cart' and customer can remove them from cart if he / she wants to. Give date, start time, end time and press 'Reserve Now' to sent request of reservation.

The screenshot shows a web application interface for reservations. At the top is a green navigation bar with links: Category, Reserve, About Us, Contact, Food Cart, Food Order, Table Cart, Reservation, WelCome : Md. Masud Rana, and LogOut. On the left, there's a red-bordered box titled 'All Table Details' containing an image of a dining table. In the center, there's a table with reservation details:

NO	Capacity	Delete
1	4	Delete
2	8	Delete
3	4	Delete

Below this table is a reservation form with input fields for Date (02/02/2018), Start Time (3 PM), and End Time (7 PM), and a red 'Reserve Now' button. On the right, there's a 'Shopping Cart' section showing 'No item in Cart' with 'View Cart' and 'View All Order' buttons. Below that is a 'Reservation Cart' section showing a table with one item:

NO	Capacity	Delete
1	4	Delete

Customer can view his/her requested reservations status by pressing 'Reservation' in menu bar.

The screenshot shows the same web application interface, but the 'Reservation' menu item is selected. The central table now displays a list of reservations with their status:

NO	View Details	Status	Date	Star Time	End Time
1	View Details	Pending	02/02/2018	3 PM	7 PM
2	View Details	Pending	28/01/2018	12:30 PM	3 PM
3	View Details	Accepted	28/01/2018	12:30 PM	3 PM
4	View Details	Accepted	30/01/2018	12:30 PM	3 PM
5	View Details	Accepted	29/01/2018	3 PM	6 PM
6	View Details	Pending	28/01/2018	12:30 PM	5 PM
7	View Details	Pending	30/01/2018	12:30 PM	3 PM
8	View Details	Accepted	28/01/2018	12:30 PM	3 PM
9	View Details	Accepted	28/01/2018	3 PM	6 PM

The 'Shopping Cart' and 'Reservation Cart' sections on the right remain the same, both showing 'No item in Cart'.

Press 'View Details' to view reservation table and capacity.

Staff:

After logging in staff can view orders and reservations of different types and status. Staff search order by selecting order type and status and by giving customer id. Pressing 'View' staff can view the details of that order. To log out press 'Log Out'.

The screenshot shows the Staff interface for 'TEN 11 Restaurant'. The staff member is 'Hasib'. The interface includes a sidebar with 'Order' and 'Reservation' options. The main area is titled 'Order' and contains a search bar with fields for 'Customer Id', 'Type' (dropdown), and 'Status' (dropdown), along with a 'Search' button. Below the search bar is a table of orders.

Cart Id	Customer Id	Customer	Type	Date	Time	Status	Total Price	View
1002	3	Hasib	Online	1/21/2018		Pending	6200.00	View
1003	1	Rasel	Online	1/21/2018		Pending	5100.00	View
1004	1	Rasel	Online	1/21/2018		Pending	2500.00	View
1005	2	Hamza	OnPlace	1/21/2018		Pending	4400.00	View
1006	2	Hamza	OnPlace	1/21/2018		Pending	10400.00	View
1007	2	Hamza	Online	1/21/2018		Pending	1900.00	View
1008	2	Hamza	Online	1/21/2018		Pending	3700.00	View
1009	2	Hamza	OnPlace	1/21/2018		Pending	3200.00	View
1010	2	Hamza	Online	1/21/2018		Pending	2600.00	View
1011	2	Hamza	OnPlace	1/26/2018		Pending	3700.00	View
1012	2	Hamza	Online	1/28/2018		Accepted	100.00	View

Staff can change order status by selecting status and pressing 'OK'. Then staff will be notified about the status changed. Staff can also press 'Back' to go back to the previous page.

The screenshot shows the 'Order Details' modal. It is divided into two sections: 'Cart Details' and 'Customer Details'. The 'Cart Details' section shows the order ID (1002), date (1/21/2018 12:00:00 AM), time, type (Online), total price (6200.00), and a status dropdown menu currently set to 'Pending'. The 'Customer Details' section shows the customer ID (3), name (Hasib), email (ahdh@gmail.com), phone (0123456), and address (Dhaka). Below these sections is a table of items in the cart.

	Id	Name	Quantity	Price
▶	1002	Mawa Laddu	2	800.00
	1003	Heart shape cake	3	5400.00
✱				

At the bottom of the modal are two buttons: 'Back' and 'OK'.

Similarly, staff can view and search reservations and change the status of reservations.

Manager:

After logging in manager can see home where he/she can see an overview of order, reservation and revenue. To log out press 'Log Out'.

TEN 11 Restaurant Manager : Shuvo [Log out](#)

Order	Reservation	Revenue
Today Online : 0 On Place : 0 Total : 0	Today : 0	Today Online : On Place : Total :
Yesterday Online : 0 On Place : 0 Total : 0	Yesterday : 0	Yesterday Online : On Place : Total :
	Tomomow : 0	

In 'Order' manager can view orders and search orders between 'From' and 'To' date, order type and status by pressing 'Search'. Manager can see any order details by pressing 'View' and delete by pressing 'Delete' and conforming by pressing 'Yes' to delete and 'No' to cancel.

TEN 11 Restaurant Manager : Shuvo [Log out](#)

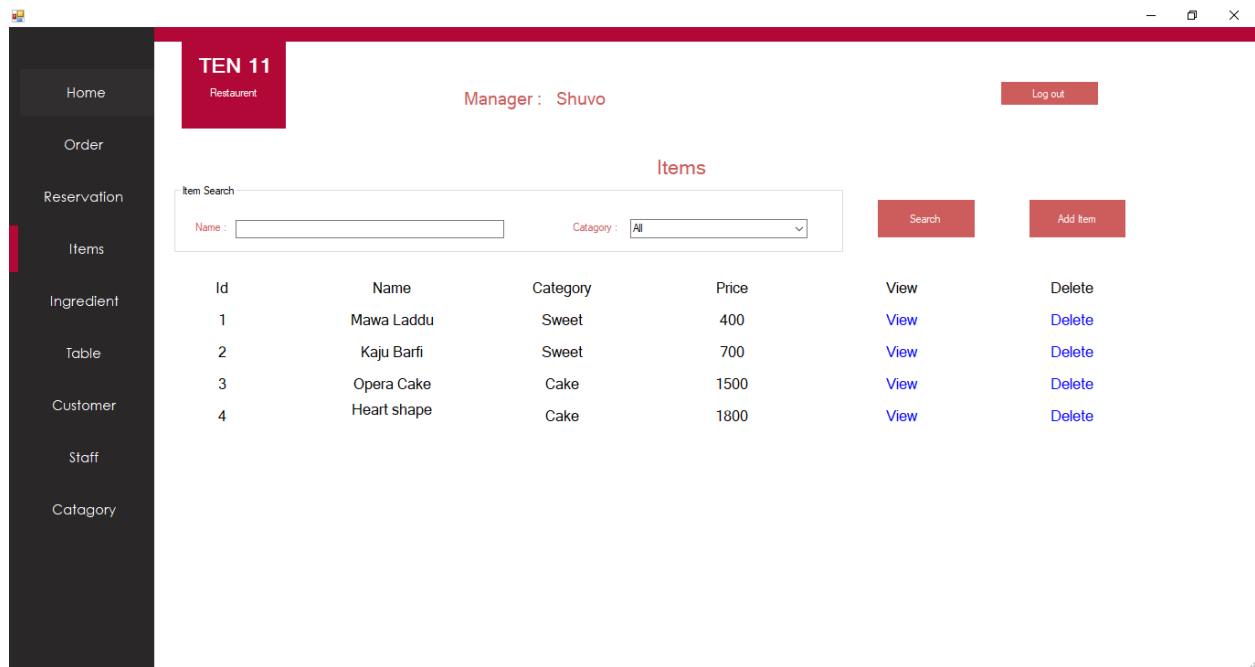
Order

From : Friday, February 2, 2018 To : Friday, February 2, 2018 Type : All [Search](#)

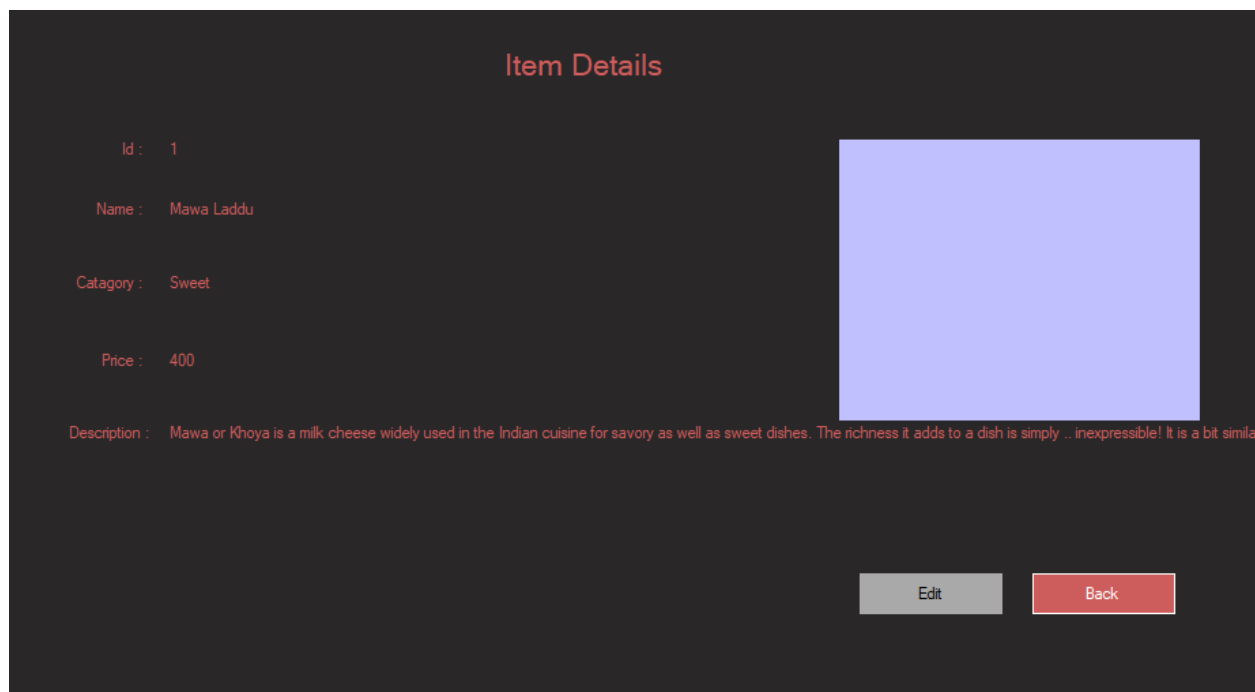
Cart Id	Customer	Type	Date	Time	Status	Total Price	View	Delete
1002	Hasib	Online	1/21/2018		Pending	6200.00	View	Delete
1003	Rasel	Online	1/21/2018		Pending	5100.00	View	Delete
1004	Rasel	Online	1/21/2018		Pending	2500.00	View	Delete
1005	Hamza	OnPlace	1/21/2018		Pending	4400.00	View	Delete
1006	Hamza	OnPlace	1/21/2018		Pending	10400.00	View	Delete
1007	Hamza	Online	1/21/2018		Pending	1900.00	View	Delete
1008	Hamza	Online	1/21/2018		Pending	3700.00	View	Delete
1009	Hamza	OnPlace	1/21/2018		Pending	3200.00	View	Delete
1010	Hamza	Online	1/21/2018		Pending	2600.00	View	Delete
1011	Hamza	OnPlace	1/26/2018		Pending	3700.00	View	Delete
1012	Hamza	Online	1/28/2018		Accepted	100.00	View	Delete

Similarly, manager can view, search and delete 'Reservation'.

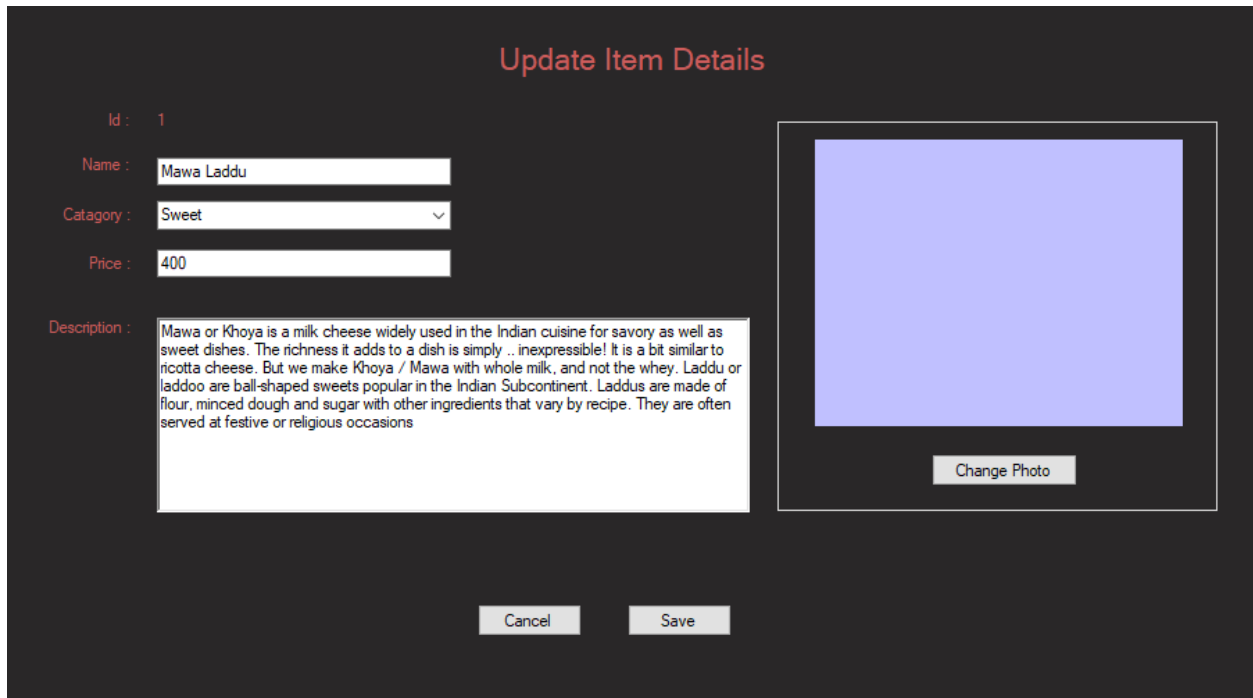
In 'Items' manager can view items and search items by name and category. Manager can see any item details by pressing 'View' and delete any item by pressing 'Delete' of that item . After pressing 'Delete' manager has to conform if he wants to delete it or not. Press 'Yes' to delete and 'No' to cancel. Manager can also add new item by pressing 'Add Item'.



When viewing item details and picture he/she can edit details by pressing 'Edit'.



Change necessary information and press 'Save' to update the details or press 'Cancel' to cancel.



The 'Update Item Details' form is displayed on a dark background. It features a title 'Update Item Details' in red. The form includes a text input for 'Id' with the value '1', a text input for 'Name' with the value 'Mawa Laddu', a dropdown menu for 'Category' with 'Sweet' selected, and a text input for 'Price' with the value '400'. A large text area for 'Description' contains a paragraph about Mawa or Khoya. To the right of the form is a large blue square placeholder for a photo, with a 'Change Photo' button below it. At the bottom are 'Cancel' and 'Save' buttons.

Update Item Details

Id : 1

Name : Mawa Laddu

Category : Sweet

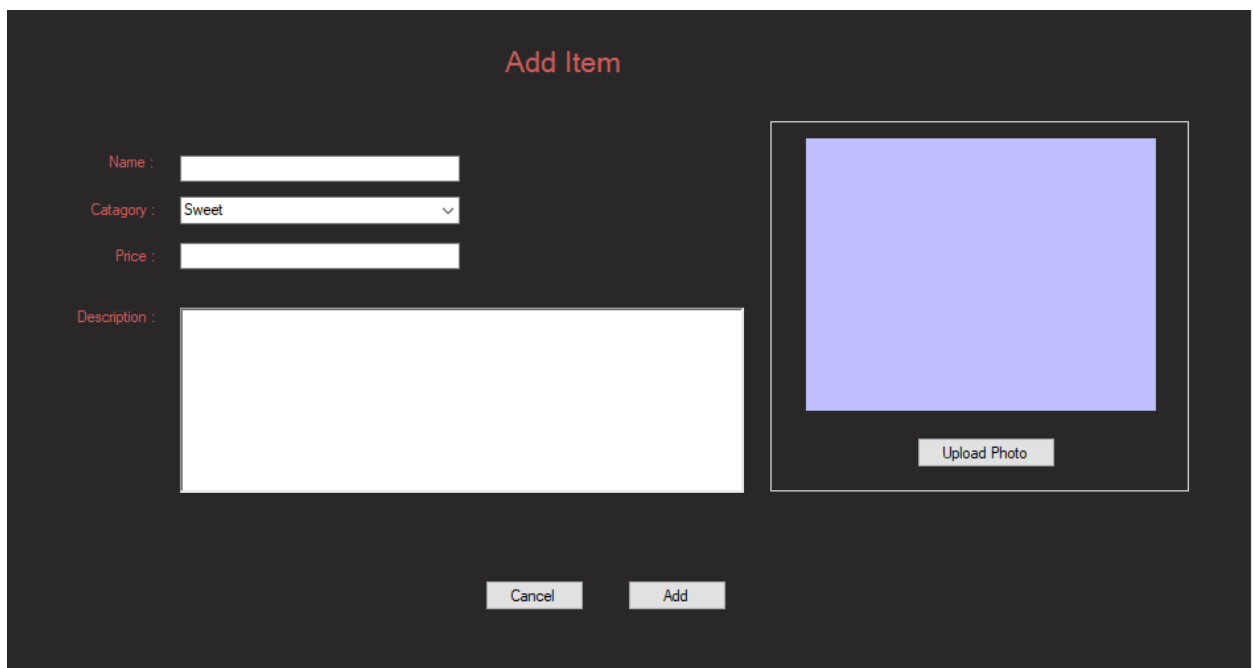
Price : 400

Description : Mawa or Khoya is a milk cheese widely used in the Indian cuisine for savory as well as sweet dishes. The richness it adds to a dish is simply .. inexpressible! It is a bit similar to ricotta cheese. But we make Khoya / Mawa with whole milk, and not the whey. Laddu or laddoo are ball-shaped sweets popular in the Indian Subcontinent. Laddus are made of flour, minced dough and sugar with other ingredients that vary by recipe. They are often served at festive or religious occasions

Change Photo

Cancel Save

After pressing 'Add Item' in items manager has to give item information and picture and press 'Add' to add item or he can cancel it by pressing 'Cancel'. To upload picture he/she has to press 'Upload Photo' and selecting the picture he/she wants to upload from pc then press 'OK' to upload photo.



The 'Add Item' form is displayed on a dark background. It features a title 'Add Item' in red. The form includes a text input for 'Name', a dropdown menu for 'Category' with 'Sweet' selected, and a text input for 'Price'. A large text area for 'Description' is empty. To the right of the form is a large blue square placeholder for a photo, with an 'Upload Photo' button below it. At the bottom are 'Cancel' and 'Add' buttons.

Add Item

Name :

Category : Sweet

Price :

Description :

Upload Photo

Cancel Add

Similarly, manager can view, search, add, delete and update 'Ingredient', 'Table', 'Customer', 'Staff' and 'Category'.

Draw Backs:

We can not complete all the features of the project what we wanted to complete. We wanted to search name by 'Trie' algorithm but that is not done. Table capacity should not be variable but it should categorized (like: small, medium and large). Manager can not update the status of order and reservations.

Future Plane:

In future we would like solve all draw backs and we want to add some features like making prediction using data analysis of the restaurant that how much ingredients the restaurant need for a specific day. Also will try to add more payment options and discount facilities.