

**Dharmsinh Desai University, Nadiad**

**Faculty of Technology,**

**Department of Computer Engineering**

**B. Tech. CE Semester – VI**

**Subject: Service oriented computing**

**Project title : Food ordering system**

By

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**CERTIFICATE**

This is to certify that the project entitled “Food ordering system” is a bonafied report of the work carried out by

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# Abstract

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Our proposed system is an online food ordering system that enables ease for the customers. It overcomes the disadvantages of the traditional queuing system. Our proposed system is a medium to order online food hassle free from restaurants as well as mess service. This system improves the method of taking the order from customer. The online food ordering system sets up a food menu online and customers can easily place the order as per their wish. Also with a food menu, customers can easily track the orders. This system also provides a feedback system in which user can rate the food items. Also, the proposed system can locate hotels, food, based on the nearby distance from user address. The payment can be made online or pay-on-delivery system.

# Introduction

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In our project we have chosen Restaurant menu entity to perform crud operation using wcf service, following tools / technologies are used:

- C sharp language
- ASP.NET
- ADO.NET
- WCF service library
- SQL server database
- Visual studio IDE

# Software requirement specifications

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R1) Manage menu

R1.1) Add item

Input: item details

Output: item is added to restaurant menu.

#### R1.2) Display menu

Restaurant manager shall be able to view menu of restaurant.

#### R1.3) Update item details

Restaurant manager shall be able to update item details.

Input: item details

Output: item details are updated.

#### R1.4) Delete item

Restaurant manager shall be able to delete item from menu.

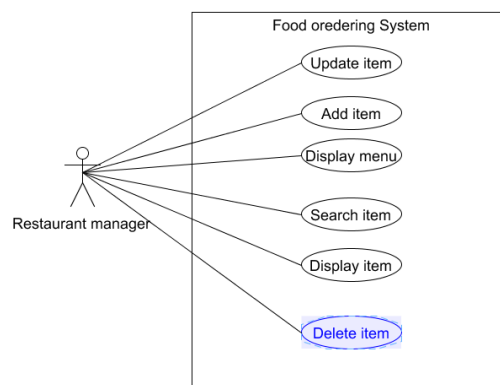
Input: User selection

Output: item is removed from menu.

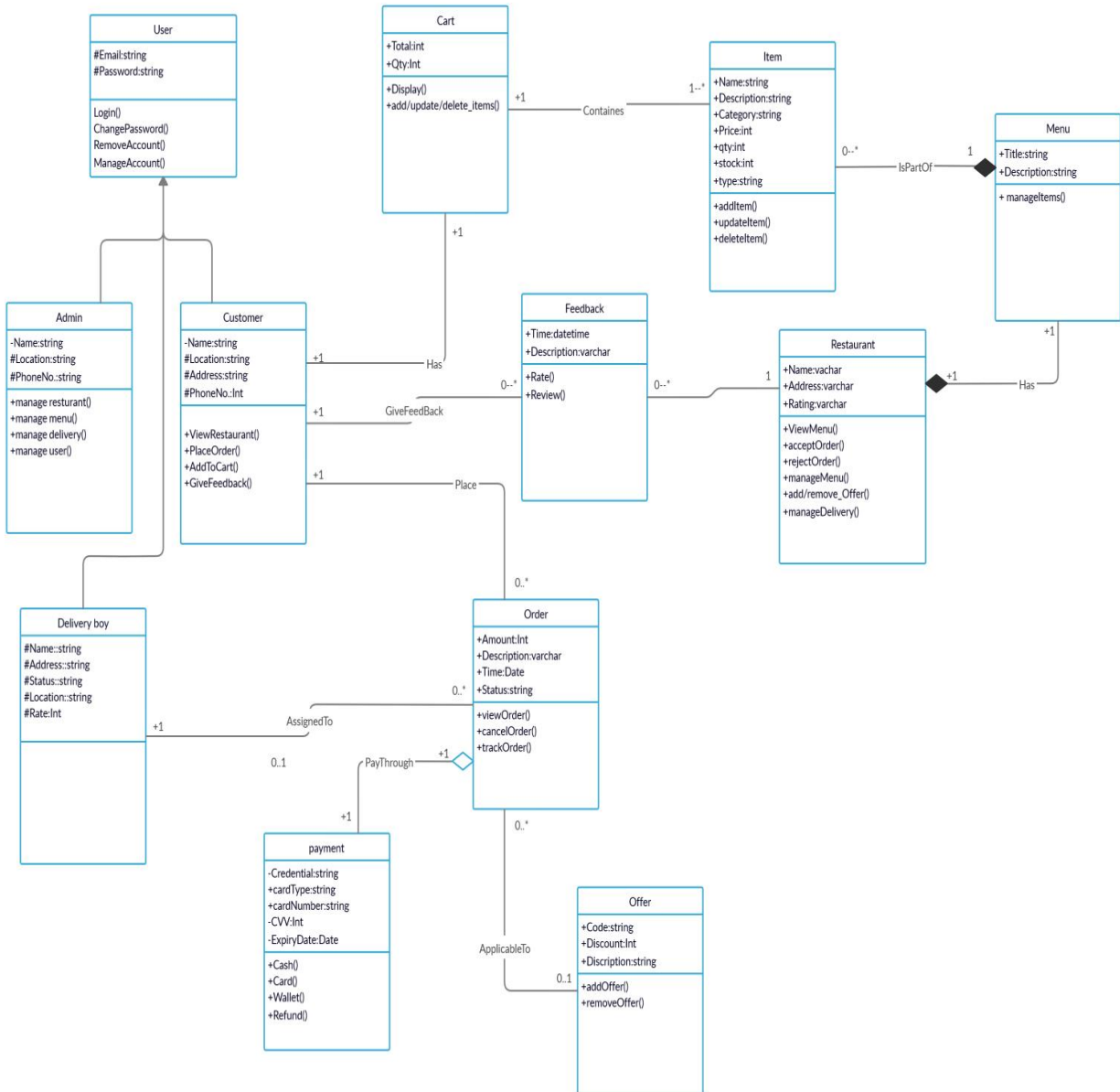
## Design

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### Use case diagrams



### Class diagram



## Implementation detail

Following is brief description about important class and methods of project

### **Item**

Represent menu item, This class is annotated as data contract and it is main entity on which crud operations are done.

Following all methods are annotated as operation contract.

### **AddItem(Item)**

This method is used to insert a menu item in restaurant menu.

### **getItems()**

This method is used to retrieve all menu items of restaurant menu.

### **DeleteItem(Item)**

This method is used to delete a menu item in restaurant menu.

### **SearchItem(Item)**

This method is used to search a menu item in restaurant menu.

### **UpdateItem(Item)**

This method is used to update details of a menu item in restaurant menu.

Service is hosted locally by ASP.NET console application as host with basic http binding. ASP.NET Web client application is used to consume service. ADO.NET framework is used to interact with SQL server database.

## Testing

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Unit testing is done on individual methods of the service.

Below is example of AddItem test case

Test Id	Test scenario	Test steps	Test data	Expected results	Actual results	Pass/Fail
1	Insert item with valid details(All required properties are not null)	1.Open add item form 2.Enter item details 3.Click on save button	Name = cheese pizza Description = none Price = 300 Category = Pizza Type = veg Status = available	Item should be added to menu	As expected	Pass
2	Insert item with invalid details(some required properties are null)	1.Open add item form 2.Enter item details 3.Click on save button	Name = null Description = none Price = Category = Pizza Type = veg Status = available	Item should not be added to menu and error message should be displayed	As expected	Pass

## Screen shots

Search item by id

The screenshot shows a web application interface. At the top, there are four blue buttons labeled 'Add new', 'Update', 'Delete', and 'Display'. Below these is a search bar with the text 'Enter Item ID' and a placeholder 'Enter Item ID e.g 201'. To the right of the search bar is a green button labeled 'Search'. Below the search bar is a black bar with the text 'By'.

Add item



## CRUD Operation Using WCF Service

Add New
Update
Delete
Display

Name

Farmhouse

Description

cheese pizza with mushroom , onion

Price

300

Category

pizza

Type

☒ Veg
 ☐ Non-veg

Status

☒ Available
 ☐ Not Available

Save

Reset

By

Display all items

## CRUD Operation Using WCF Service

Add New
Update
Delete
Display

	Id	Name	Description	Price	Type	Category	Status
	1	Farmhouse		320	Veg	Pizaa	Not Available
	3	Mexican delight		380	Veg	Pizza	Available
	4	Garlic bread		100	Veg	Side	Available

By

Update item

Name	<input type="text" value="Farmhouse"/>
Description	<input type="text"/>
Price	<input type="text" value="320"/>
Category	<input type="text" value="Pizaa"/>
Type	<input checked="" type="radio"/> Veg <input type="radio"/> Non-veg
Status	<input type="radio"/> Available <input checked="" type="radio"/> Not Available
<input type="button" value="Update"/> <input type="button" value="Cancel"/>	

Delete item

Enter Item ID	<input type="text" value="1"/>	<input type="button" value="Search"/>														
<table> <thead> <tr> <th>Id</th> <th>Name</th> <th>Description</th> <th>Price</th> <th>Type</th> <th>Category</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Farmhouse</td> <td></td> <td>320</td> <td>Veg</td> <td>Pizaa</td> <td>Not Available</td> </tr> </tbody> </table>			Id	Name	Description	Price	Type	Category	Status	1	Farmhouse		320	Veg	Pizaa	Not Available
Id	Name	Description	Price	Type	Category	Status										
1	Farmhouse		320	Veg	Pizaa	Not Available										
<input type="button" value="Delete"/> <input type="button" value="Cancel"/>																

## Conclusion

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Our project is able to successfully demonstrate Crud operation on a entity in SQL server database via WCF service hosted locally and is able to be consumed by ASP.NET web client application.

## Limitation and future extension

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Currently this project is implemented for a single Restaurant menu , later can be extended to multiple restaurant menus and proper authentication can be added to client application.

## Bibliography

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