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**Faculty of Technology, Department of**  
**Computer Engineering**  
**B. Tech. CE Semester – VI**

**Subject: Service oriented computing**

**Project title :Restaurant-Menu-Management-System**

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**CERTIFICATE**

This is to certify that the project entitled “**Restaurant-Menu-Management-System**” is a bonafied report of the work carried out by

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# Abstract

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

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

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

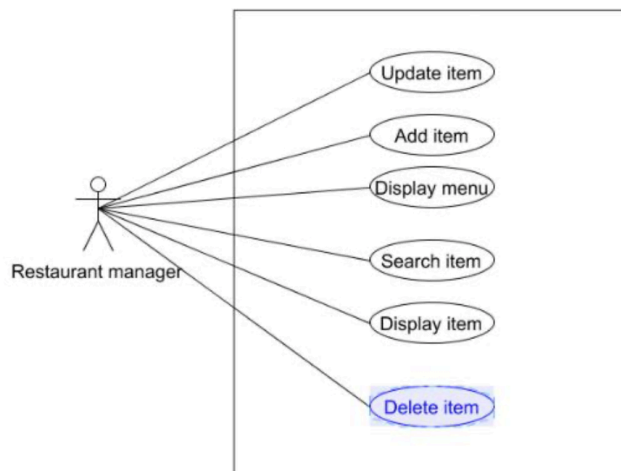
Restaurant manager shall be able to delete item from menu.

Input: User selection

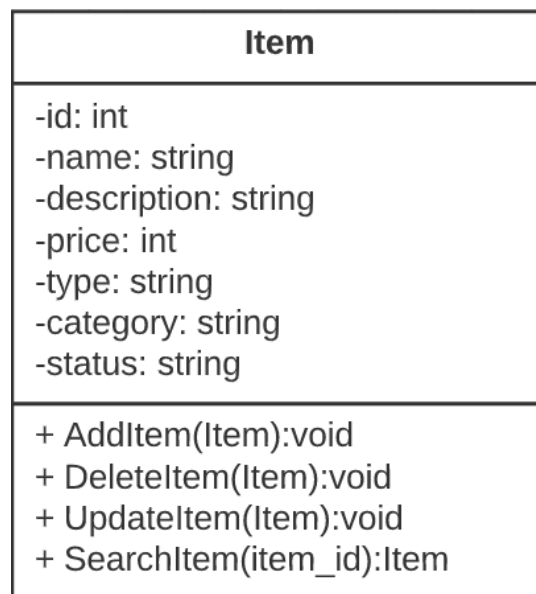
Output: item is removed from menu.

## Design

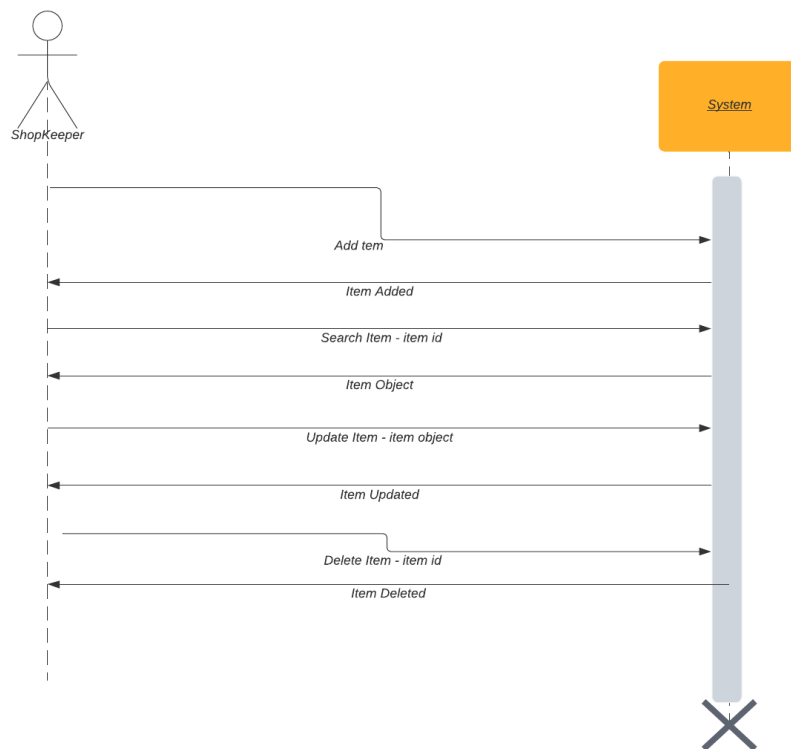
### Use case diagram



## Class diagram



# Sequence 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

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(so me 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

# Screenshots

[RMMS](#) [Item](#) [About](#) [Contact](#)

## Restaurant Menu Management System (RMMS)

Your back-of-house team puts a ton of effort into crafting your dishes. Shouldn't your POS system's restaurant menu management software be just as carefully crafted?

We think so. That's why we designed the TouchBistro menu management system specifically for restaurant service staff, with a host of smart features to make your menu ordering, prep, and reporting process a masterpiece.

Menu management software, sometimes called menu planning software, is any computer program that allows you to control your restaurant's menu and prices electronically.

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[RMMS](#) [Item](#) [About](#) [Contact](#)

### Create

Item

<b>Name</b>	<input type="text" value="Samosa"/>
<b>Description</b>	<input type="text" value="Stuffed with potato and paneer"/>
<b>Price</b>	<input type="text" value="50"/>
<b>Type</b>	<input type="text" value="Veg"/>
<b>Category</b>	<input type="text" value="Breakfast"/>
<b>Status</b>	<input type="text" value="Available"/>
	<input type="button" value="Create"/>

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[Create New](#)

Name	Description	Price	Type	Category	Status	
Paneer Tikka	chunks of paneer marinated in spices and grilled in a tandoor.	100	Veg	dinner	Not Available	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
Extra Cheese	100g extra cheese.	40	Veg	add on	Not Available	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
Chicken Burger	Delicious burger with chicken and veggies	250	Non-veg	burger	Available	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
Samosa	Stuffed with potato and paneer	51	Veg	Breakfast	Available	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
New Samosa	Stuffed with potato and paneer	51	Veg	Breakfast	Available	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>

Details

Item

<b>Name</b>	Samosa
<b>Description</b>	Stuffed with potato and paneer
<b>Price</b>	51
<b>Type</b>	Veg
<b>Category</b>	Breakfast
<b>Status</b>	Available

[Edit](#) | [Back to List](#)

## Edit

Item

<b>Name</b>	<input type="text" value="Samosa"/>
<b>Description</b>	<input type="text" value="Stuffed with potato and paneer"/>
<b>Price</b>	<input type="text" value="51"/>
<b>Type</b>	<input type="text" value="Veg"/>
<b>Category</b>	<input type="text" value="Breakfast"/>
<b>Status</b>	<input type="text" value="Available"/>
	<input type="button" value="Save"/>

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# Conclusion

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

# Limitation and future extension

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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