RESTAURANT MANAGEMENT SYSTEM

Submitted By:

Akriti Kumari (120101006)

Bharat N. Gupta (120101017)

C. H. Vinay (120101018)

Siddhesh Khandelwal (120101069)

Suraj Rautella (120101072)

TABLE OF CONTENTS

Table of Contents

General information ____ 1

About the software ____ 1

organization of the manual ____ 1

System Summary ____ 2

System Configuration ____ 2

User access level ____ 2

Getting Started ____ 3

Installation ____ 3

Software Interface ____ 3

Login Form ____ 3

Customer Form ____ 4

Chef Form ____ 6

Manager Form ____ 6

Using the Software ____ 16

Login Form ____ 16

Customer form ____ 16

Chef form ____ 16

manager form ____ 16

Zoom Feature ____ 18

Error Handling ____ 19

General information

ABOUT THE SOFTWARE

This software aims at electronic management of various activities at a restaurant like order placement (menu and dining options), cooking management (for chefs and cooking staff), order service management (for waiters and delivery staff), raw material, financial and employee management (for the manager).

The software also keeps a record of the frequency of customers, frequency of a particular dish and the amount of food material utilized on a daily basis. This data is then used to optimize the prices of each dish, offer special discounts to loyal customers and also manages the amount of stocks required.

ORGANIZATION OF THE MANUAL

The user's manual consists of five sections: General Information, System Summary, Getting Started, Using the Software, and Reporting.

General Information section explains in general terms the software and the purpose for which it is intended.

System Summary section summary outlines the users system's hardware and software requirements, system's configuration and user access levels in order to run the software.

Getting Started section explains how to get Statistical Tool and install it on the device. The section presents briefly system menu.

Using The Software section provides a detailed description of system functions

Reporting section describes in what way information collected by the application are presented and how to access the information

System Summary

System Summary section summary outlines the users system's hardware and software requirements, system's configuration and user access levels in order to run the software.

SYSTEM CONFIGURATION

The software requires Windows XP/Vista/7/8 and a connection to a remote server via the internet or intranet. A machine has to be set up running a MySQL server and containing the required database files. The username of the SQL Server should be '**root**' and the password should be '**abc123**'. The software also requires the latest version of Microsoft .NET Framework.

USER ACCESS LEVEL

Any user can use this application and it requires no special privileges

Getting Started

Getting Started section explains how to get Statistical Tool and install it on the device. The section presents briefly system menu.

INSTALLATION

The setup is an .exe file. Run the setup and follow the instructions on the screen.

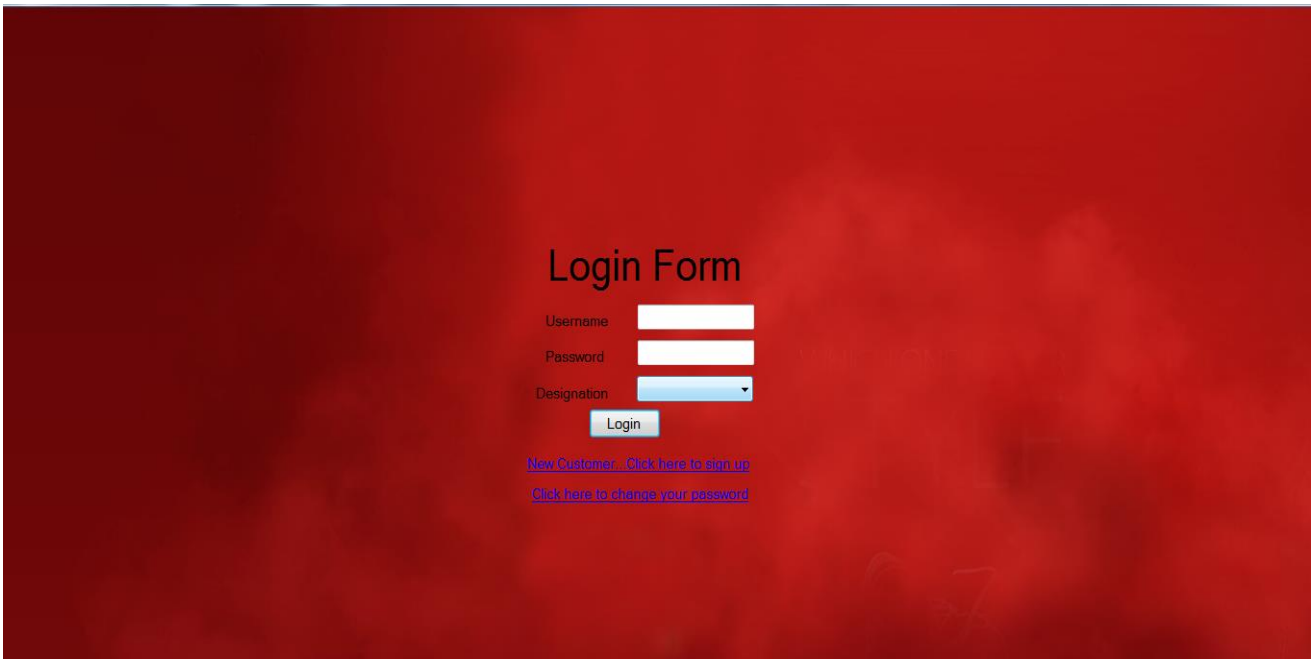
SOFTWARE INTERFACE

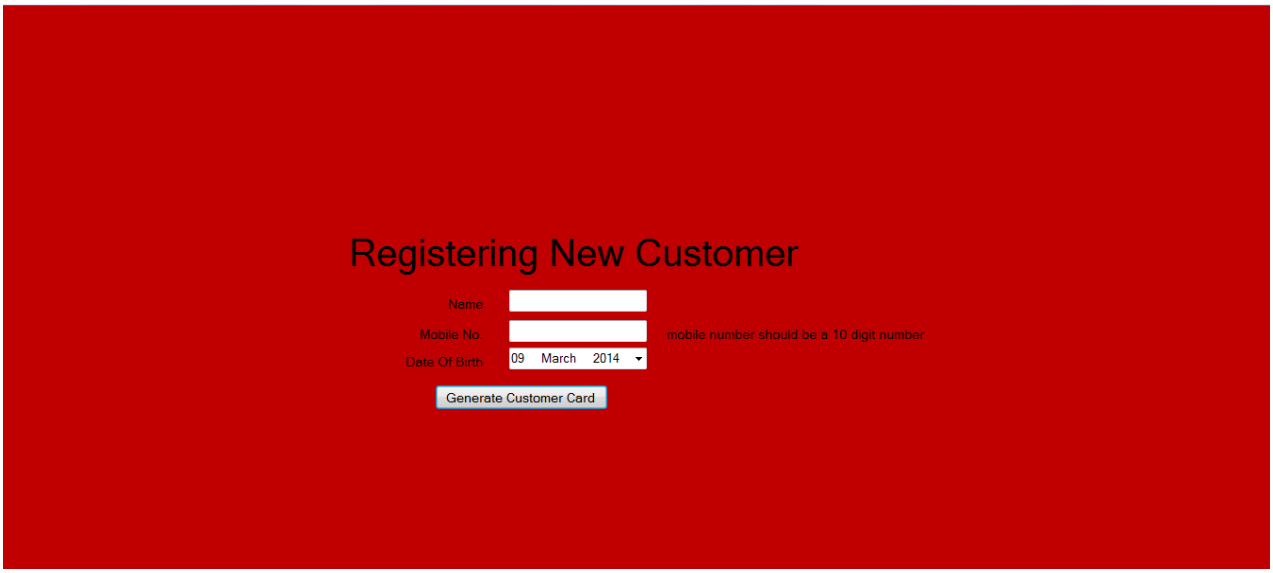
Using The Software section provides a detailed description of system functions

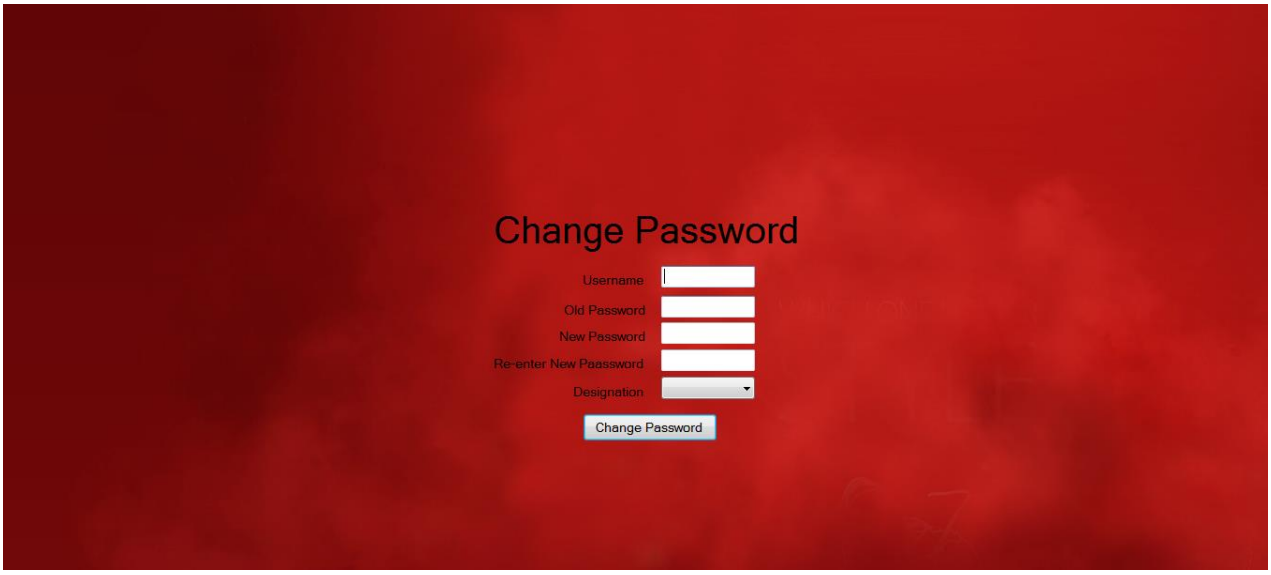
Login Form

The login form is used to connect to the various features of the software. It has the option to sign in as one of the following: Customer, Chef or Manager, each having a separate set of functions.

There is an option to add new Customers and also to change the password of an existing account.



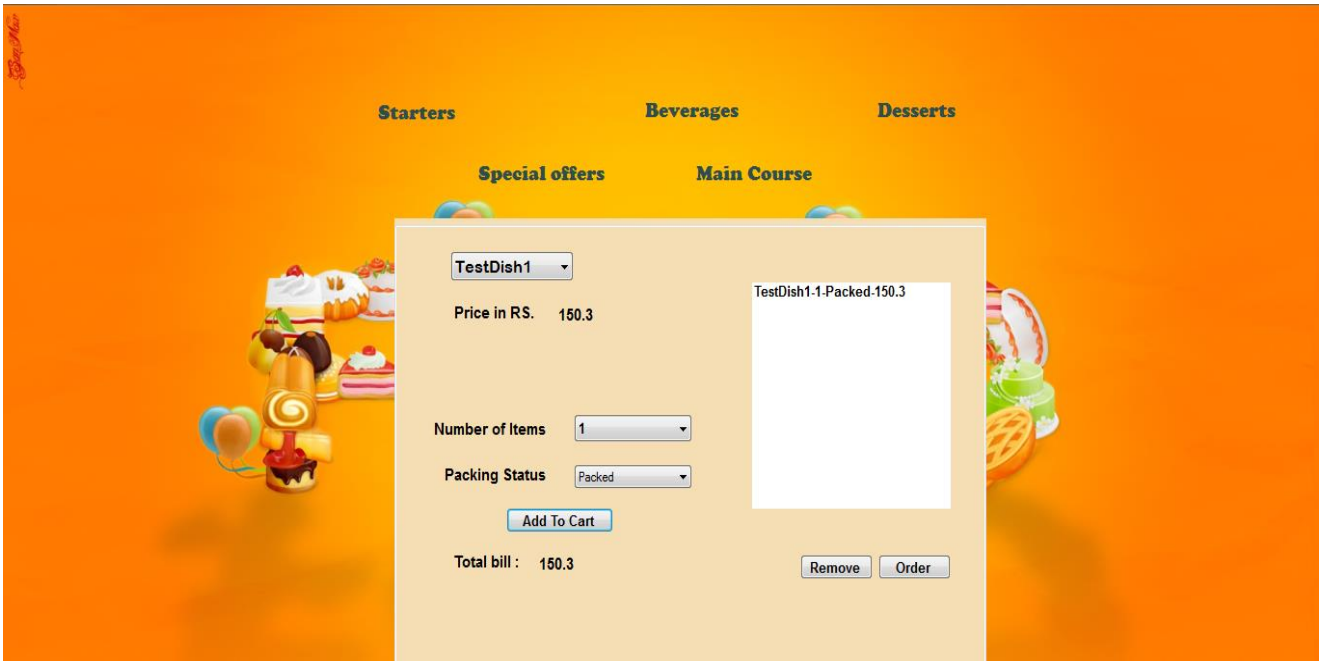


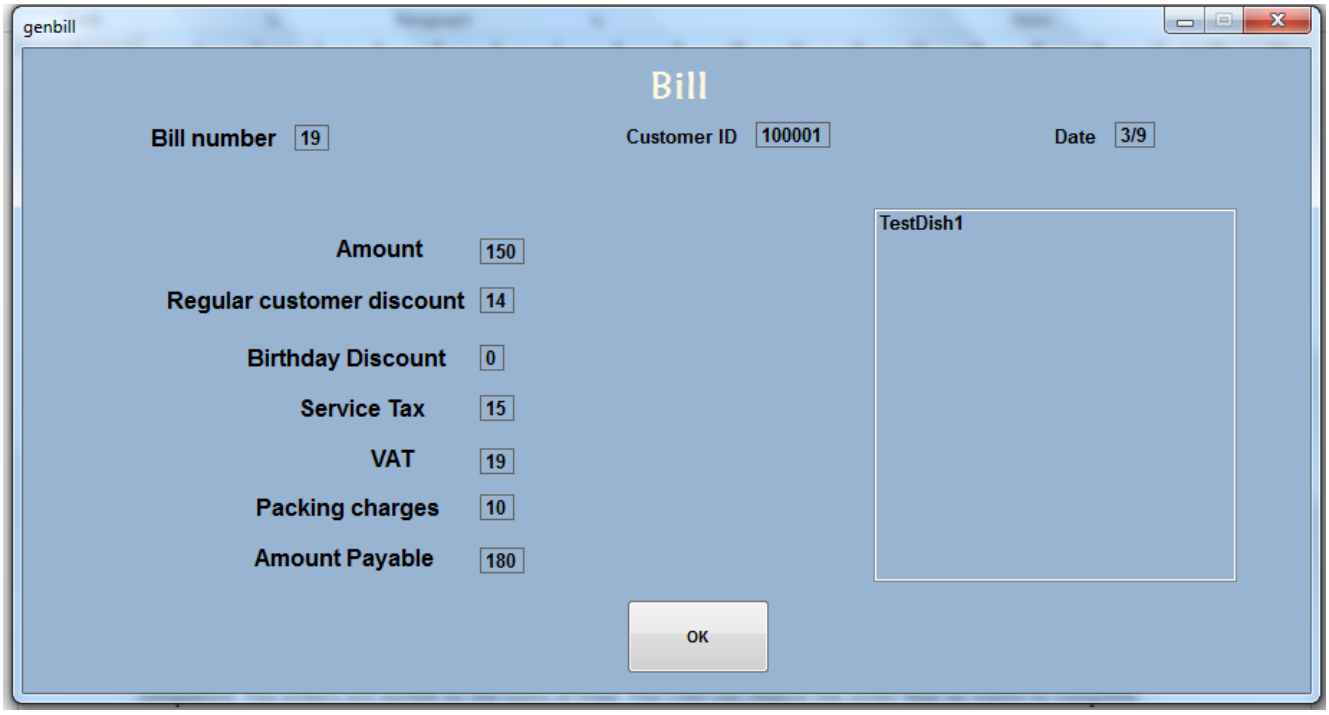


Customer Form

The Customer form has a menu-card type interface that allows the customer to choose from a variety of food items under different categories. The form enables the customer to place an order depending on his choice.

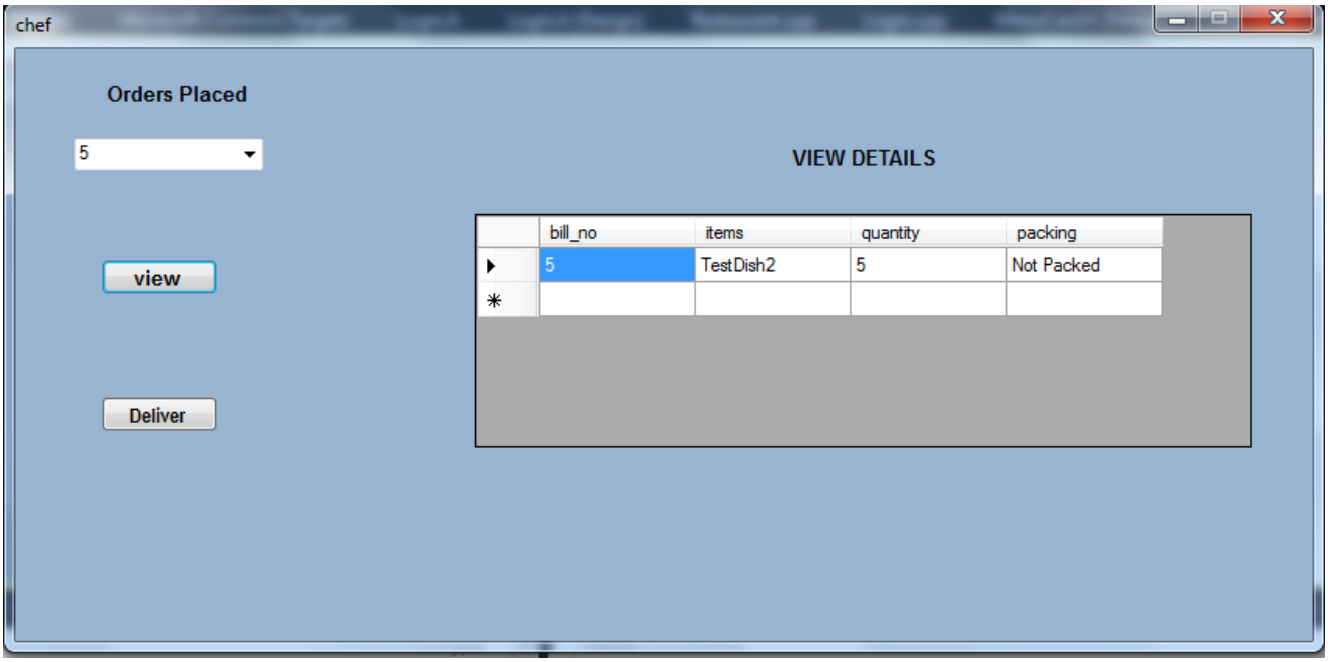
After placing the order, an electronic bill is generated that shows the detailed information related to the amount payable after discounts and taxes.


Starters
Beverages
Desserts
Special offers
Main Course
TestDish1
Price in RS. 150.3
TestDish1-1-Packed-150.3
Number of Items 1
Packing Status Packed
Add To Cart
Total bill : 150.3
Remove
Order


genbill
Bill
Bill number 19
Customer ID 100001
Date 3/9
Amount 150
Regular customer discount 14
Birthday Discount 0
Service Tax 15
VAT 19
Packing charges 10
Amount Payable 180
TestDish1
OK

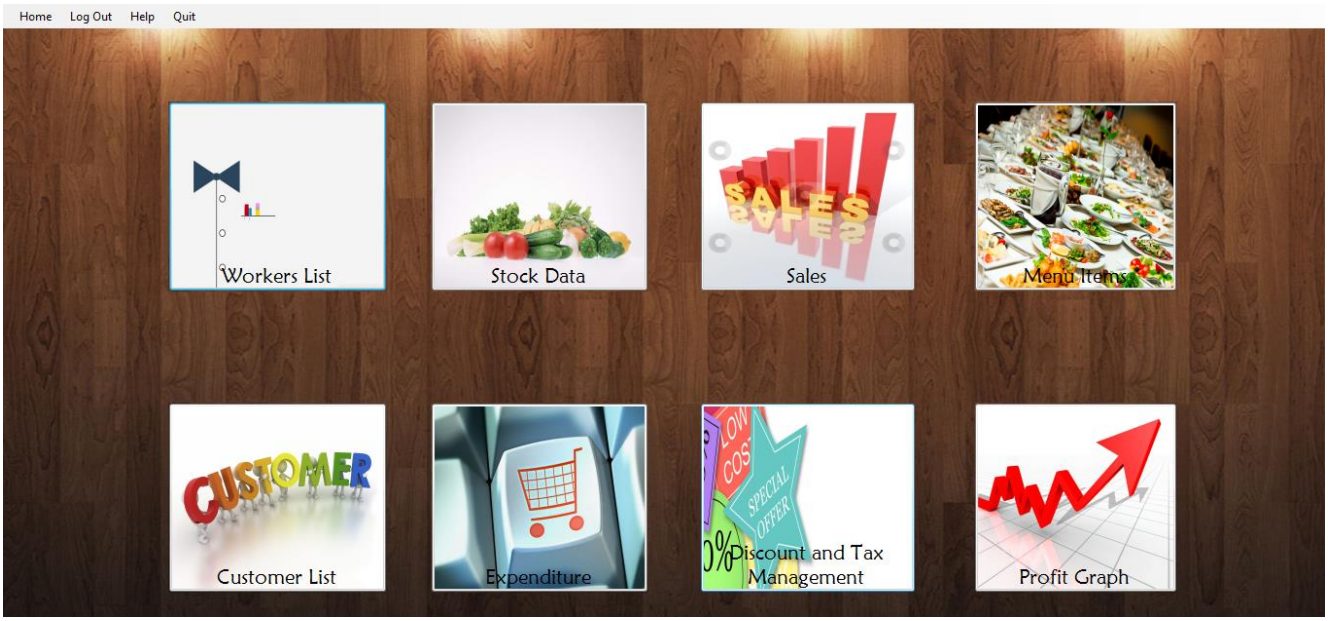
Chef Form

The Chef form enables the user logged in as Chef to check the pending /non-delivered orders that need to be completed. The orders are sorted on the basis of time. The Chef can choose the order that he wants to complete.



Manager Form

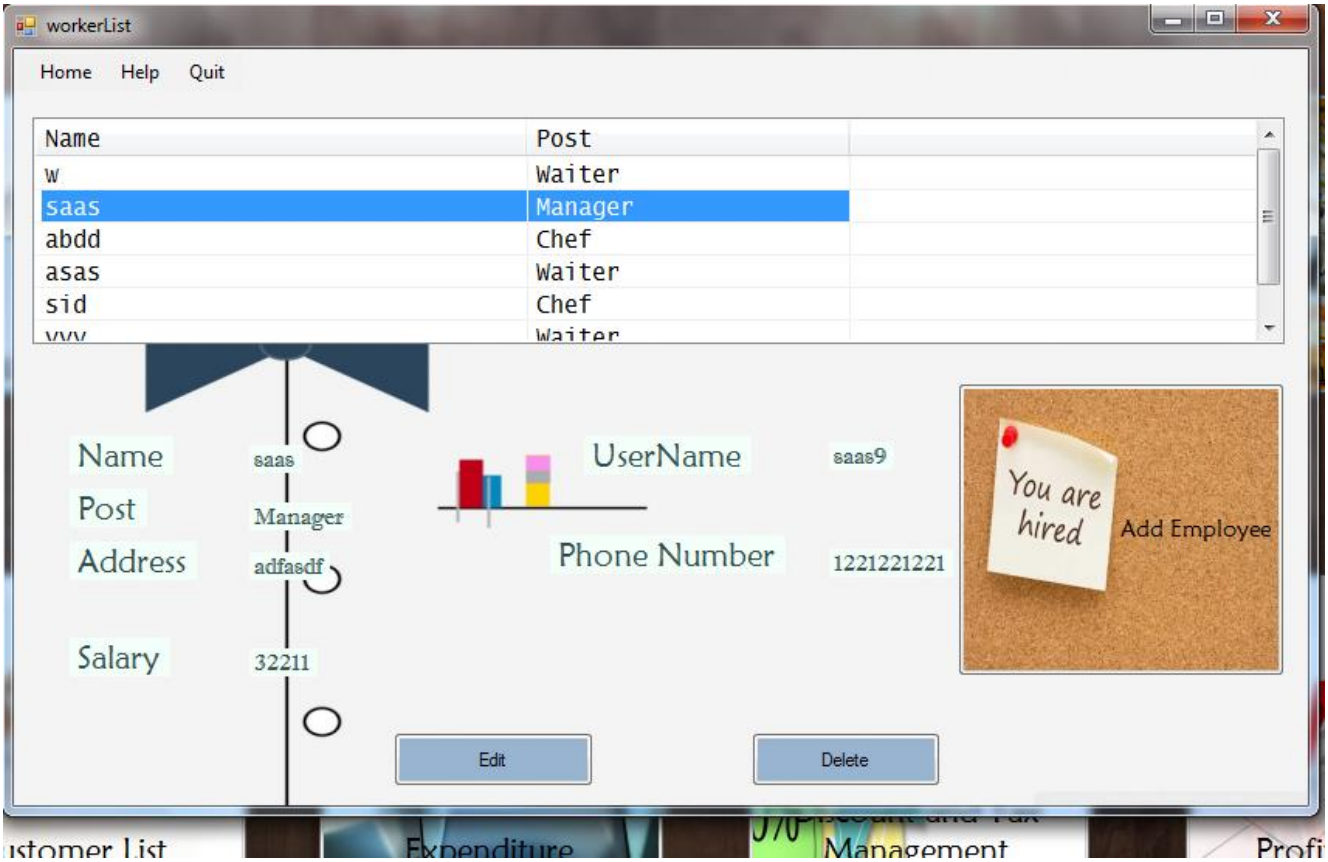
The Manager Form provides Super- User access to the person logged in as Manager. After installation, the default Manager username is '**manager**' and the password is '**manager**' (It is important to change the default password after installation of the software).



The manager form has 8 different sub-options that enable the manager to keep a check on the various activities in the restaurant.

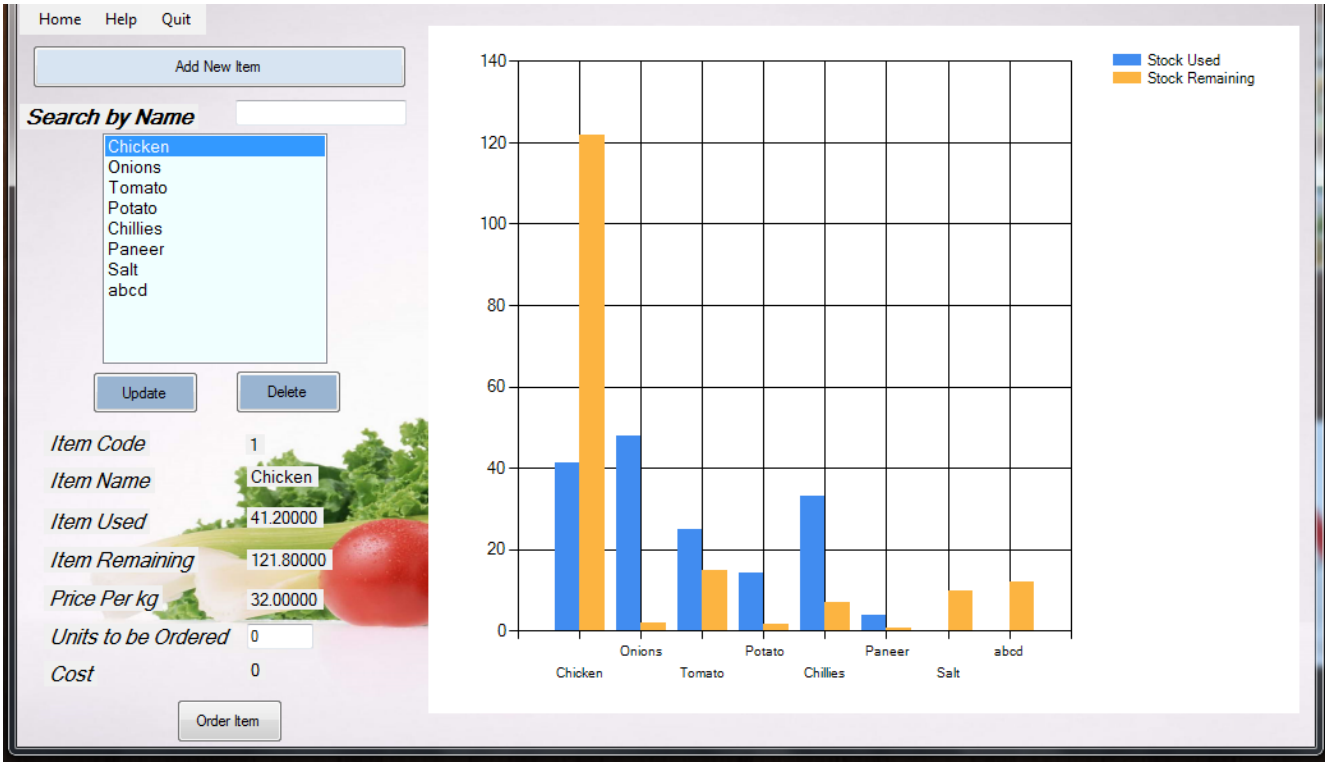
Workers List

The Workers List enables the Manager to add/edit the current working employees in the restaurant. It has various options to set the salary, job, etc. of each employee.



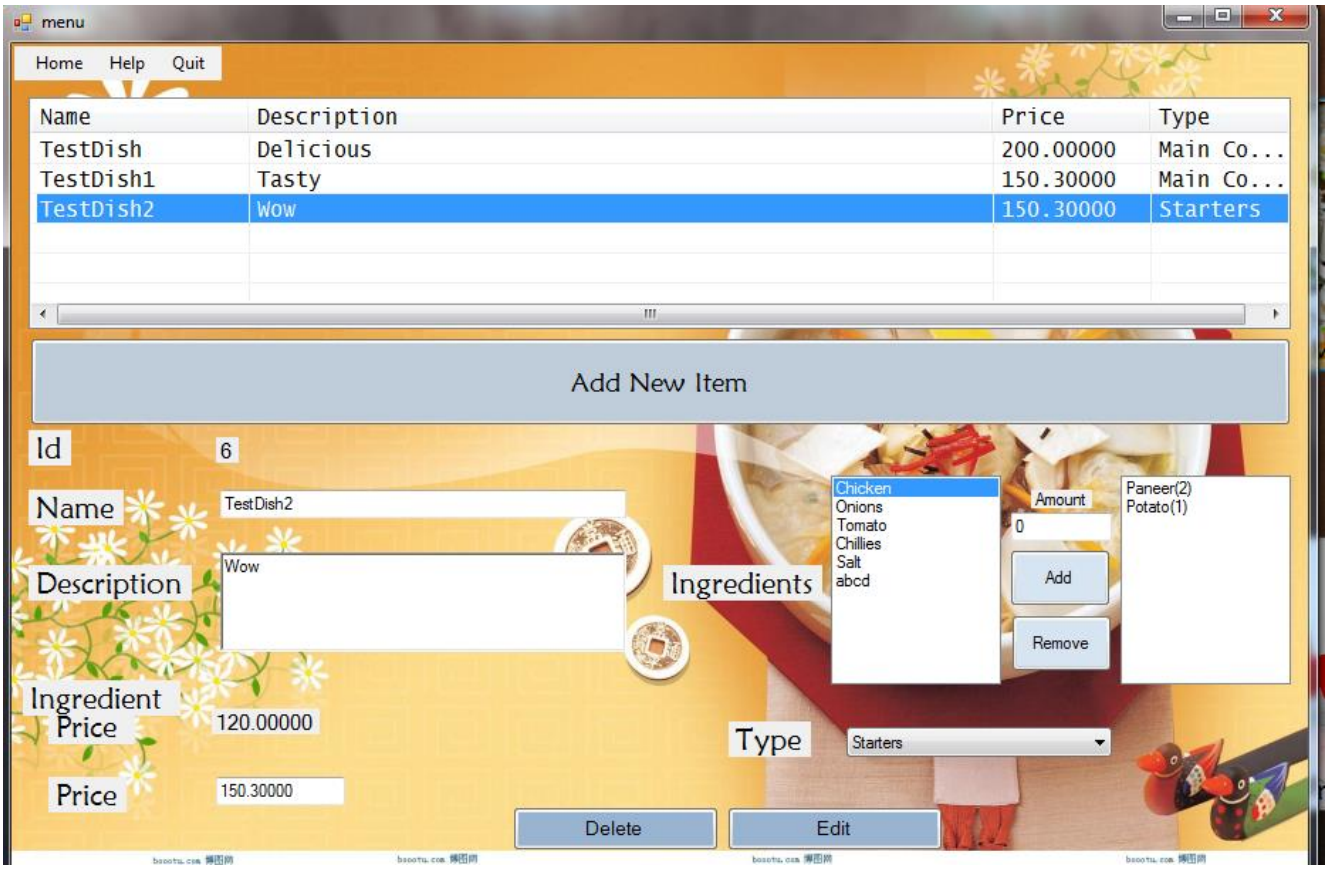
Stock Data

The Stock Data enables the manager to add/edit the various raw materials that will be required in cooking various food items. It has options to order raw materials, edit prices depending upon the market and add new raw materials. The form is facilitated with a graph that shows the amount of raw materials used and the amount of raw materials remaining that gives a visual representation of the same.



Menu Items

The Menu Items enables the Manager to add/edit the Menu items available in the restaurant. It allows the manager to add new menu items with the amount and cost of raw materials required to make the dish, set prices of the food items and add a description to the menu item.

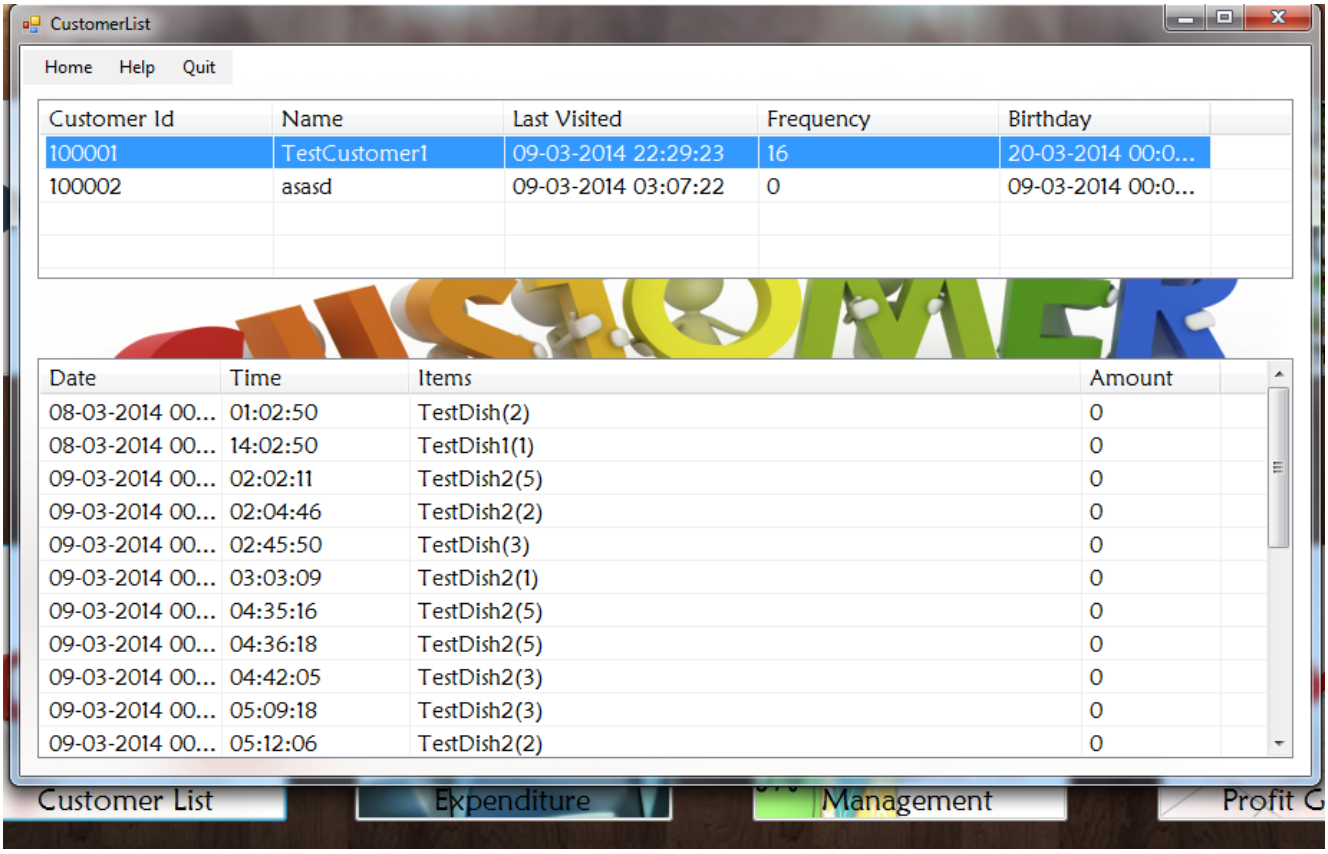


Sales

The Sales gives the Manager an idea of the amount of various food items sold each day and the individual income from each food item. There is also a graph that visually depicts the same.

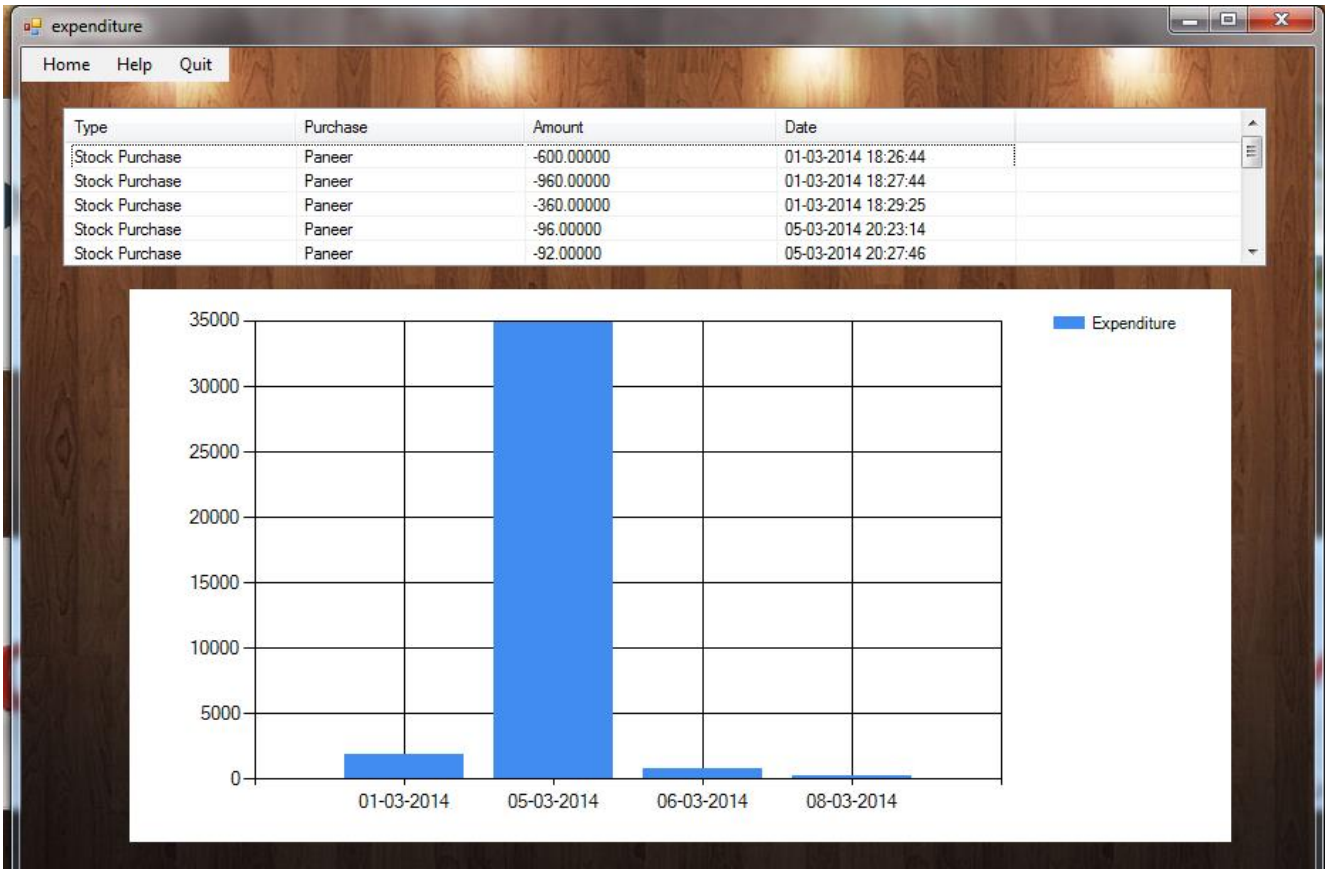
Customer List

The Customer List provides the Manager with a detailed description of the registered customers (visited in the last 30 days) and their detailed orders over the past month.



Expenditure

The Expenditure provides the Manager with a detailed description of the amount spent by the restaurant (over the past month) in purchase of various raw materials and employee salaries.

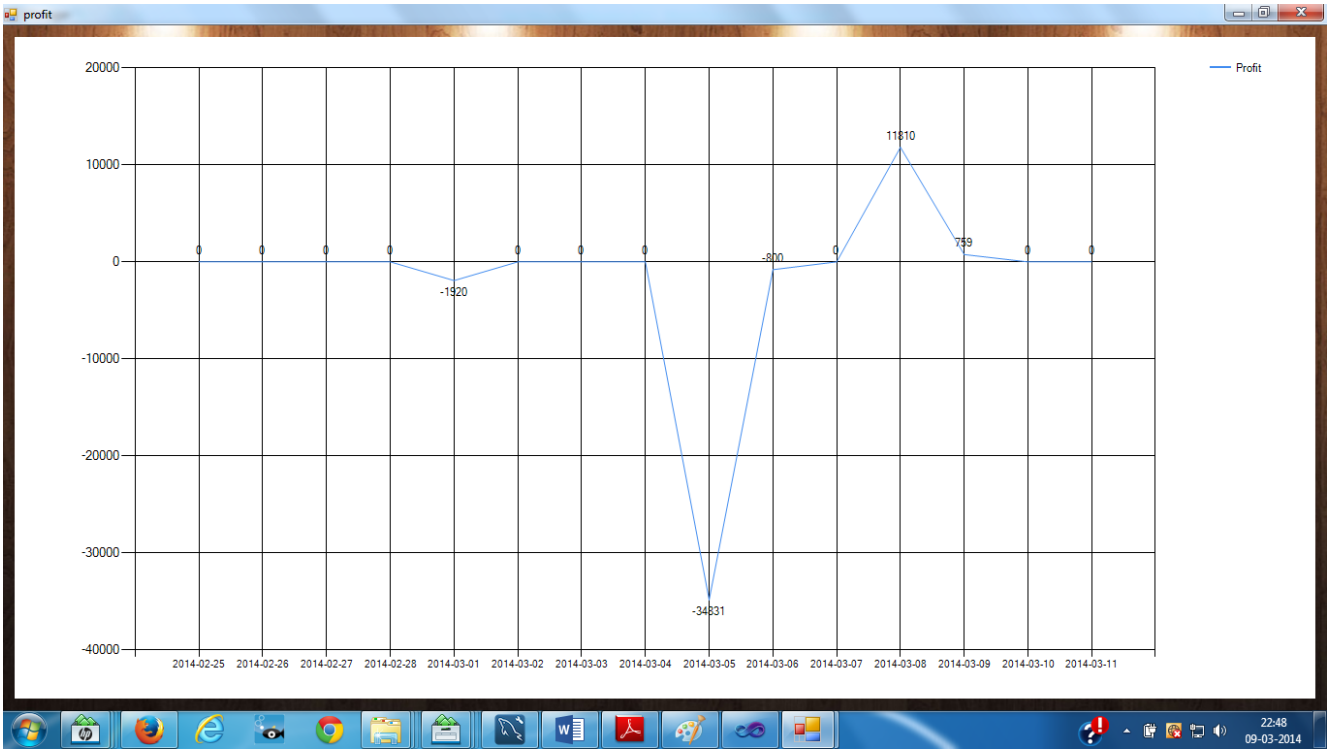


Discount and Tax Management

The Discount and Tax Management enables the Manager to set the various discounts and taxes that are applicable to the customers based on the criteria specified.

Profit Graph

The Profit Graph gives the manager a visual representation of the profit earned (Earning – Expenditure) by the restaurant in the past 15 days.



All the graphs and charts have a **Zoom feature** that is explained in the next section.

Using the Software

Using The Software section provides a detailed description of system functions

LOGIN FORM

There are 3 fields in the login form – username, password and designation, all of which are required to be entered.

The Designation needs to be selected from the dropdown list.

There are two links “add customer” and “change password”. On clicking the link “add customer” a new form is opened that facilitates adding a customer in which case the user needs to enter his name and a 10 digit mobile number and his birth date. (If any field is left empty or not filled correctly i.e. mobile number accepts only a 10 digit number, then a message box is generated displaying the appropriate error/message).On clicking the link “change password” a new form is opened that requires the user to enter his present username, old password, designation and new password (If any field is left empty or not filled correctly then a message box is generated displaying the appropriate error/message).

CUSTOMER FORM

This form opens when a customer is logged in. It displays the various food items available to the user in the form of an electronic menu guide under various categories (five namely Starters, Beverages, Deserts, Main Course, Special Offers).

The customer is supposed to click on one of the fields and then click on the drop down menu below to see the food items under that category. The user can select one of the food items and know its rate. The user subsequently needs to select the quantity he wants to order of that particular food items (upper bounded according to the amount of ingredients of that food item present in stock).The user is then supposed to click on the button “add to cart” to select the order. In this way the user can add or remove the food items (by “remove” button) and see the corresponding cost (without the taxes). The user is supposed to click on the button “Order” to order the items placed in the cart, after which a bill is displayed showing the details regarding the amount payable, discount, various taxes, customer’s username etc. There is button named as “log out” which logs out the user.

CHEF FORM

There is a list box in this form which displays the pending orders based on their ordering time. The chef is supposed to click on button view order to know the details of a particular order. The chef is supposed to click on the “Deliver” button after an order is completed and thus changing the status of that order from “not_delivered” to “delivered” in the database.

MANAGER FORM

This form consists of 8 buttons displaying 8 sub features

Worker's List

The corresponding form displays the list of current workers to the manager in the form of table showing the workers name and his designation. The manager can select a particular worker and see his various details and also edit the same. The manager can also add a new employee or fire an existing one with help of "Add Employee" and "Delete" button.

Stock Data

This form has a list box displaying the items present in the stock. The items of the list box are searched dynamically. The manager can add a new item in the stock by clicking the "Add new item" button. The details of an item can be edited and also the quantity of item remaining is displayed. The user can order more quantity of an item or change its cost by entering the required number in their respective fields. The form contains graph which has a zoom feature. The zoom feature is applicable to all 2-D axis based graphs. In order to zoom, drag and select the required region with the mouse to obtain a magnified image.

Menu Items

This form displays the food items available in the menu in a table having 4 fields namely name, description, price, type. The user can select a particular food item and edit its details (edit button) or add a new food item (add button) or delete an existing one (delete button). The fields "Price" and "Amount" should be entered as float values. The two list boxes show the available items and the selected items respectively (from left to right). The user can select an available item and set its amount and click on the add button to add that food item in the menu and similarly click on the remove button to remove a food item from menu.

Sales

This form consists a table showing the sales of various food items on a particular date along with other details. The date can be selected from the "Date Picker" located on the top left of the form. The form consists of a bar graph showing the sales of all items on that particular date. The graph has zoom feature.

Customer List

There are two tables in this form. The first table consists of the attributes like customer id, name, last visit, frequency and birthday of the registered customers (those who have ordered in the last 30 days). The user can select a particular customer and see his past history in the second table, showing attributes like date, time, items and amount of the particular order placed by that customer.

Expenditure

The form has a table which shows the details about the various expenditures (namely paying salary, ordering stock). The table displays the date of expenditure, amount and type. There is a graph in the form displaying the expenditure on a particular date. The graph has zoom feature. The zoom feature is applicable to all 2-D axis based graphs. In order to zoom, drag and select the required region with the mouse to obtain a magnified image.

Discount and Tax management

There are 2 types of discount and 3 types of tax in this form. There is a discount based on the frequency of the customer and based on his birthday. The taxes are VAT, service tax and packing charges. All the fields in this form are numeric counters and thus appropriate values should be entered. The values need to be saved by clicking on the "save" button.

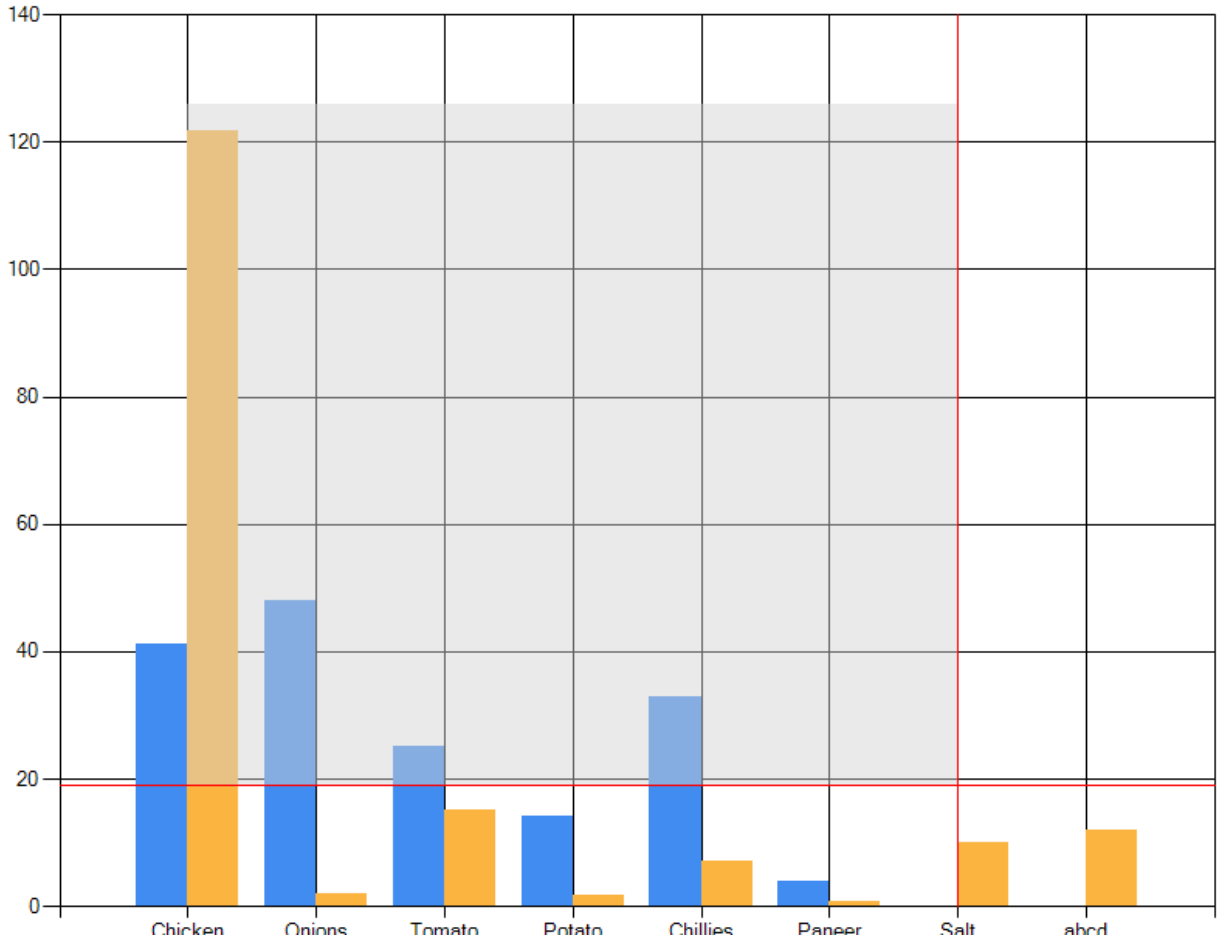
Profit Graph

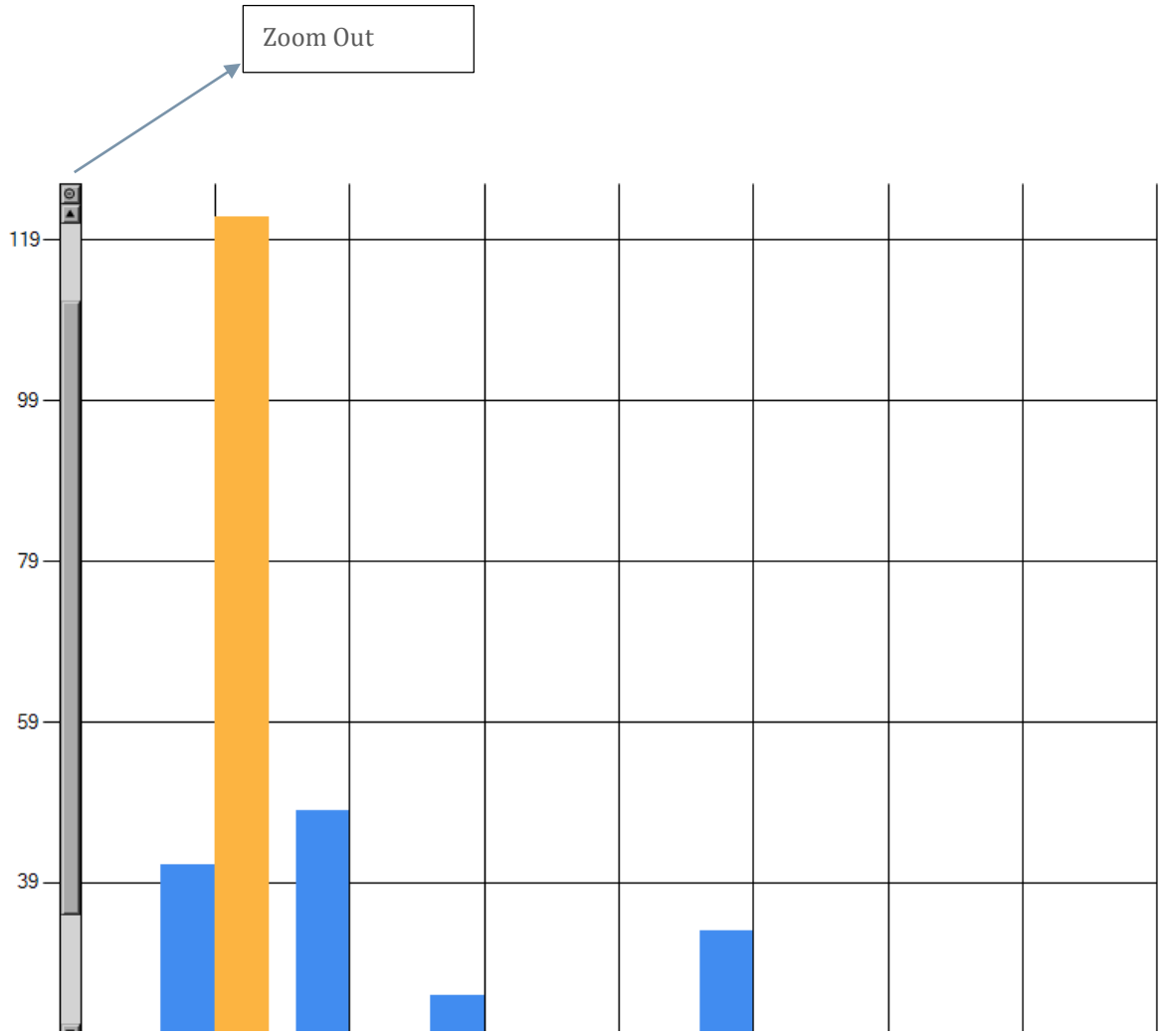
This form shows the profit of the company in the form of a graph. The profit is showed over a time frame of 15 days. The graph has zoom feature.

Zoom Feature

The zoom feature is applicable to all 2-D axis based graphs (bar and line) .

In order to zoom, drag and select the required region with the mouse to obtain a magnified image .





ERROR HANDLING

If there are any errors in the program, it will be shown as an error message to the user.