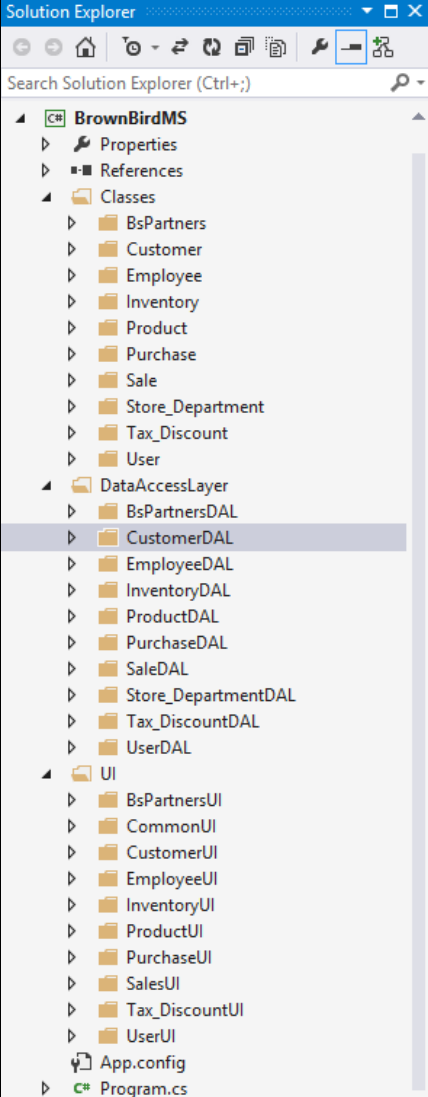
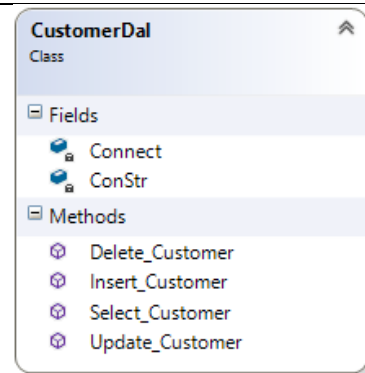
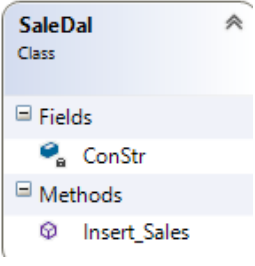
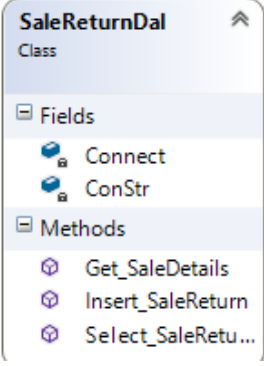
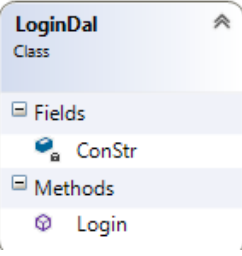
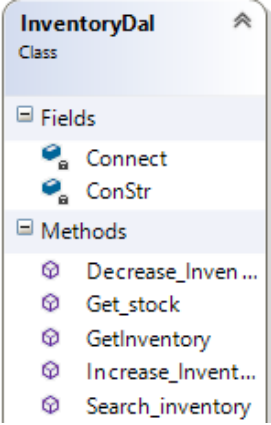
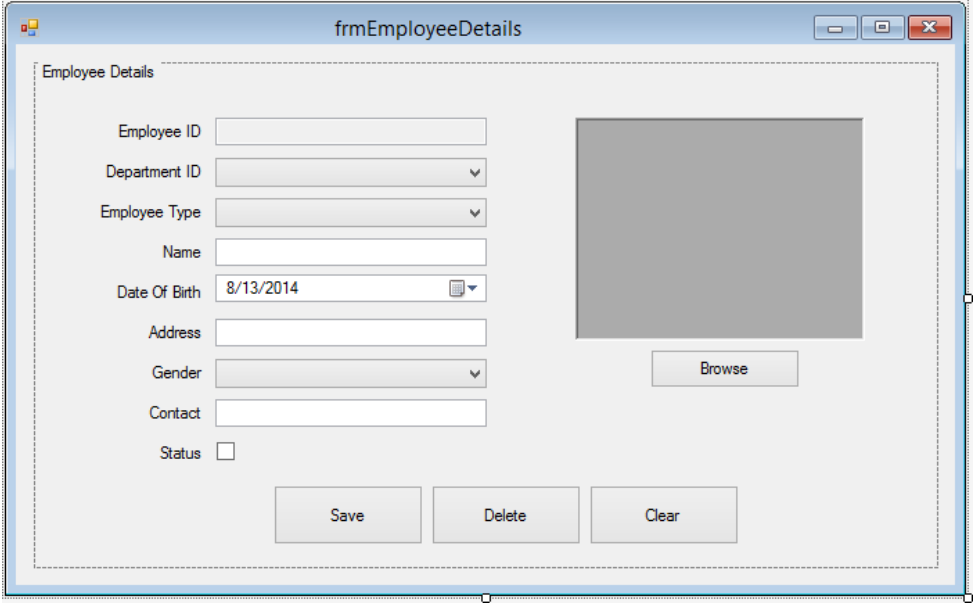


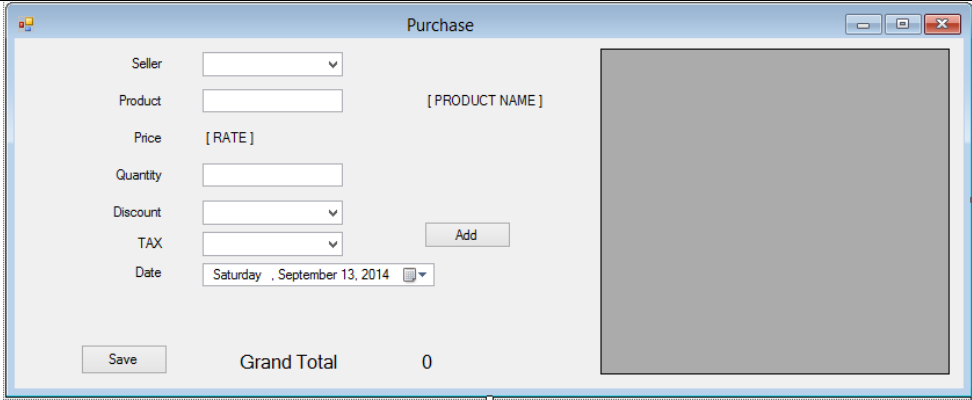
S.N.	Name	Purpose of use of the component	Screen shots
1.	<b>Whole Solution file structure</b>	The image at right is screen shot of the file tree for the whole solution. It shows required properties classes, UI files, Data access layer class and other files. It is structure of required solution to be implemented. Each component of the sytem like sales, purchase, costumer, employee etc. has their own separed, UI and classes. This makse solution more effeciet, durable and maintainable.	

Properties Structure			
2.	Customer	This class contains properties required to calculate, read and write data from customer table. Each properties will be used for inserting, updating or deleting customer data. To save new customer, values for different column of customer table will be taken form UI and saved them temporarily in clscustomer. Then, with help of DAL it will be saved in the customer table. Other operations will done similarly.	<pre> 10 references public class ClsCustomer {     //prop tab tab     6 references     public int CustomerID { get; set; }     5 references     public string CustomerName { get; set; }     5 references     public string Address { get; set; }     5 references     public int CustomerTypeID { get; set; }     5 references     public string Contact { get; set; } } </pre>
3.	Inventory	Like for customer class, clsInventory contains properties required to delete, update and insert into Inventory table. Data to be inserted or data taken from inventroy table can be saved temporarily in clsInventory. This makes development process much easier.	<pre> public class clsInventory {     6 references     public int ProductID { get; set; }     0 references     public int Stock { get; set; }     5 references     public int ProductEntry { get; set; } } </pre>
4.	Sale	Use of clsSale is similar to other properties classes. It contains, saleID, CustomerID, User, SaleDate, Grand Total and datatable for clsSaleDetails.	<pre> public class clsSale {     0 references     public int SaleID { get; set; }     2 references     public int CustomerID { get; set; }     2 references     public string User { get; set; }     2 references     public DateTime SaleDate { get; set; }     2 references     public float GrandTotal { get; set; }     1 reference     public DataTable clsForSaleDetails { get; set; } } </pre>

5.	Employee	<p>clsEmployee is properties class for employee table. It contains all the properties required to perform read, update or delete operation on employee table. To save image of employee in the employee table first image data is converted into array if byte denoted as byte[].</p>	<pre> public class clsEmployee {     5 references     public int EmployeeID { get; set; }     5 references     public int EmployeeType { get; set; }     4 references     public int DepartmentID { get; set; }     8 references     public string Emp_Name { get; set; }     5 references     public string Date_Of_Birth { get; set; }     5 references     public string Address { get; set; }     5 references     public string Gender { get; set; }     5 references     public string Contact { get; set; }     5 references     public Byte[] Picture { get; set; }     5 references     public string Status { get; set; } </pre>
<p>Structure for Data Access Layer (DAL): Data Access Layer contains classes which contains separate functions to perform read, insert, update, delete operation in the table. When the specified event is triggered, specified function is executed.</p>			
6.	Customer	<p>CustomerDal contains several function (methods) and variables as shown in image at right. Variables connect and ConStr are used for database connection and other methods are for as name suggests delete, insert, select and update. When certain event is triggered, for instance, delete button click event, it calls delete_customer which executes codes inside to delete certain specified row from table customer.</p>	

7.	Sales	SaleDal is used for inserting sales information into sales table. Data from UI first saved temporarily in clsSale (properties class for sale) then data is inserted into the database.	 <p><b>SaleDal</b> Class</p> <ul style="list-style-type: none"> <li>Fields <ul style="list-style-type: none"> <li>ConStr</li> </ul> </li> <li>Methods <ul style="list-style-type: none"> <li>Insert_Sales</li> </ul> </li> </ul>
8.	SaleReturnDal	Values for each properties of clsSaleReturn ( properties class) is taken from UI and then with help of SaleReturnDal inserting, deleting, updating or selecting operation is done.	 <p><b>SaleReturnDal</b> Class</p> <ul style="list-style-type: none"> <li>Fields <ul style="list-style-type: none"> <li>Connect</li> <li>ConStr</li> </ul> </li> <li>Methods <ul style="list-style-type: none"> <li>Get_SaleDetails</li> <li>Insert_SaleReturn</li> <li>Select_SaleRetu...</li> </ul> </li> </ul>
9.	Login	When user provides username and password LoginDal perform select operation on User table, if values provided matches value in user table, it perform successful login. Else returns false value which allows UI to generate error message.	 <p><b>LoginDal</b> Class</p> <ul style="list-style-type: none"> <li>Fields <ul style="list-style-type: none"> <li>ConStr</li> </ul> </li> <li>Methods <ul style="list-style-type: none"> <li>Login</li> </ul> </li> </ul>

10.	Inventory	<p>This DAL class contains several methods required to perform inventory operations. When sale is done InventoryDal has method than can be called to decrease the product stock as per sale number. Similarly, When purchased, stock in inventory increases. It also has method to filter the result as per productID.</p>	
<p>Structure for User Interface (UI): User Interface is very important part of system development. It is first this client notices. For this particular solution, Forms are used. Various user controls are used to make solution simple and user friendly.</p>			
11.	Employee:	<p>frmEmployeeDetails contains various user controls such as combo box, buttons, text box, image box, data time picker etc. This allows user to provide employee details in respective fields. When user clicks save button, values in each fields first gets saved in clsEmployee then executes insert function from EmployeeDal. If textbox employeeID already has some value it save button executes update method instead save method. Similar process happens when delete button is press. Browse button allows to browse and select image file.</p>	

12.	<p><b>Purchase:</b></p> <p>frmPurchase allows user to perform purchase operation. It contains data grid view which shows product to be purchase. Grand total displays total cost of each product to be purchased.</p>	
13.	<p><b>Sale Return:</b></p> <p>frmSaleReturn form provide UI form sale return feature of the system. When saleID and ProductID is provided gridview displays sold product. Once save button is clicked after providing all field's values, it perform insert operation in SaleReturn table and increase the returned product number in the inventory stock.</p>	