

TBS Sales Suit Application

User Manual

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1. Description:

Twinkle Book Store (TBS) Application is a bookstore sales software. TBS is a very historical bookstore with large loyal customer base. The average annual sales per customer is greater than Fifteen thousand rupees annually. The purpose of developing this Application, “TBS Sales Suit” is to serve customers efficiently.

2. Pre-requisites:

- MS SQL Server and Management Studio
- .NET Framework 4.7.1

3. System Requirements:

- Operating System: Windows 7 SP1, Windows 8.1, Windows 10, Windows Server 2008 R2 SP1, Windows Server 2012 R2, Windows Server 2016
- Hardware: 1GHz or above processor, 512 MB or above RAM, 5 GB or more free Hard disk space.

4. Installation:

1. To run the Application, make sure MS SQL Server and Management Studio is installed on the target machine.
2. To build the Application in Visual Studio, install following NuGet packages:
 - Entity Framework (v6)
 - iTextSharp (v5)
 - Microsoft Office Interop Excel (v15)
3. Modify the connectionString named “TBSDbContext” in the TBS_Sales_Suit_App.exe.config file with the valid connection string of the target machine SQL server connection.

NOTE: An empty database gets created automatically when the Application is first launched. The Application will take some to load the very first time as it creates the database first. As a first step make sure to Import data using Excel or CSV format to get sample data.

4. Make sure the below mentioned Input files are in the same folder as the exe:
TwinkleBookStoreExcelData.xlsx
TwinkleBookStore_CustomersCsv.csv
TwinkleBookStore_BooksCsv.csv
TwinkleBookStore_PurchasehistoryCsv.csv

5. Usage:

5.1. User Login:

1. By default there are two Users added when the Application database is created as given below:

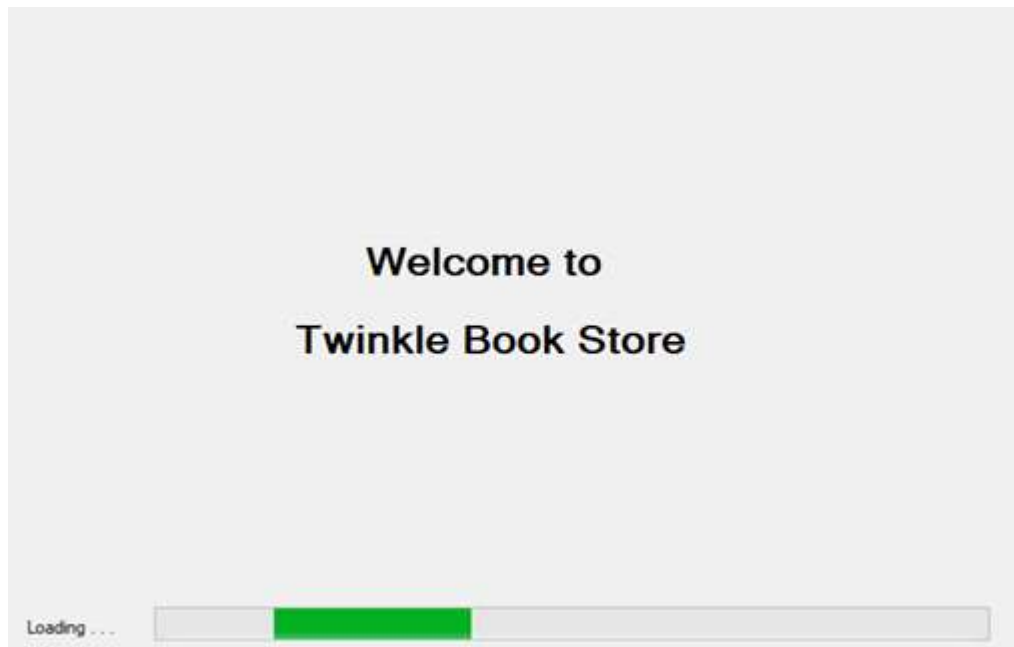
Username: John, Password: 12345678, Role: Manager

Password: Mike, Password: 87654321, Role: Salesman

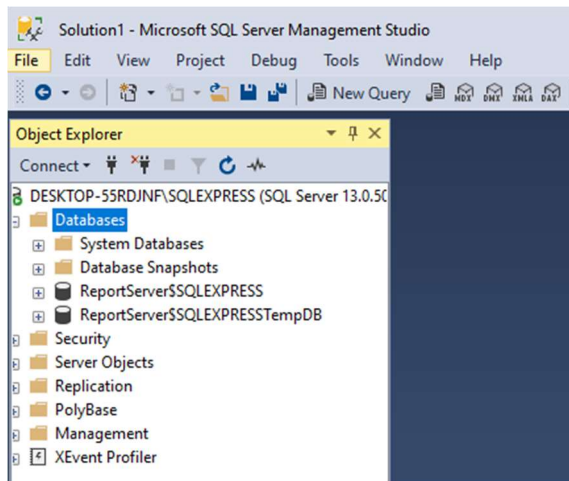
Use one of the above logins to check the corresponding responsibilities.

To Login:

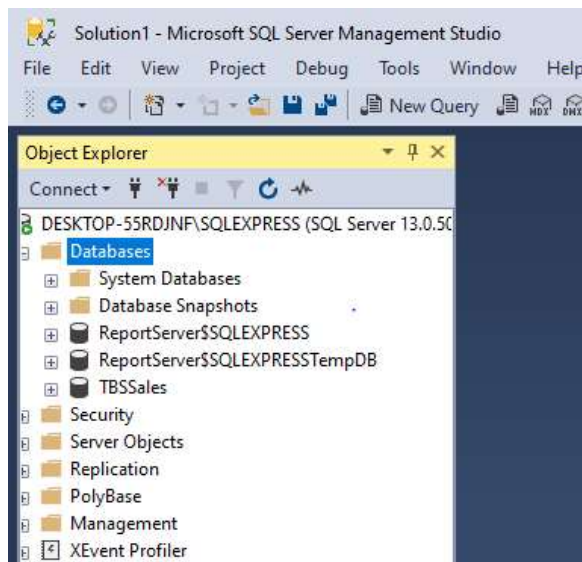
Launch the Application. Wait for the login page to show up.



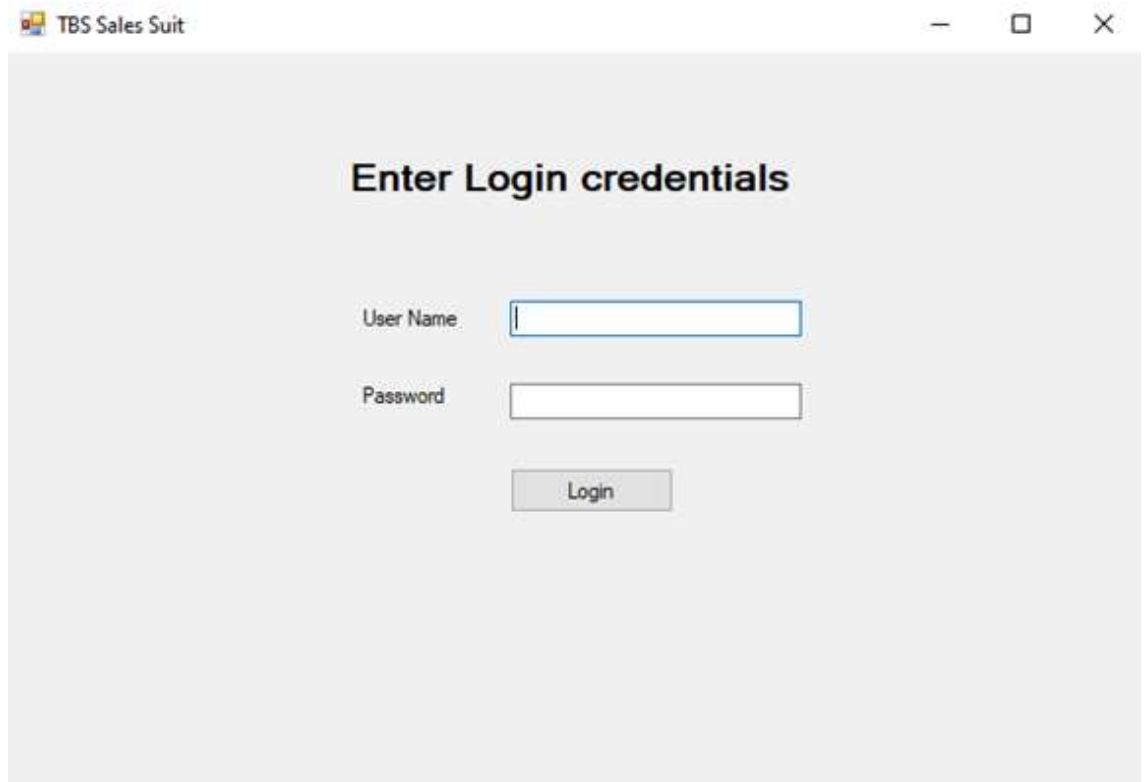
Note: The application will take few seconds to load the very first time as the Database is getting created in the background. List of databases before launching application (for first time) is shown below in SQL Management Studio.



Once the database “TBSSales” is created, it will appear in the list as shown below.



The Login window shows up in the meantime as shown below.



The screenshot shows a window titled "TBS Sales Suit" with standard Windows window controls (minimize, maximize, close) in the top right corner. The main content area has a light gray background and is titled "Enter Login credentials" in bold black text. Below the title, there are two input fields: "User Name" and "Password". The "User Name" field is currently active, indicated by a blue border and a cursor. Below these fields is a "Login" button. The overall layout is clean and professional.

Enter Username and Password of a user from the default users mentioned above.

On successful login, the Applications' main window shows up as shown below.
To switch user or log out click on the "Log out" button on the top right corner.



NOTE: The User Interface has limited screens with only those mandatory features required for this demonstration.

5.2. Import Data

To import data from EXCEL or CSV input files, select corresponding entry from the above shown screen.



After selecting the input file format, click on Import data button. This will import all the excel data of TBS into the SQL database.

5.3. Add Customer

Select the "Add Customer" tab from the top menu. It appears as shown below.

TBS Sales Suit

Import/Export Add Customer View/Update Customers Add Purchase Modify Records Log out

Add new Customer :

Name : Member since : ▼

Address : Valid until : ▼

Contact Number :

Date of Birth : ▼

Add

Enter the customer information and click on Add button at the bottom. “Member since” and “Valid Until” fields are optional.

5.4. Update Customer

Select the “View/Update Customer” tab on the top menu. It shows up as below.

TBS Sales Suit

Import/Export Add Customer View/Update Customers Add Purchase Modify Records Log out

Customer Name : Contact Number : Search

Customer Information :

Name : Member since : ▼

Address : Valid until : ▼

Contact Number :

Date of Birth : ▼

Update

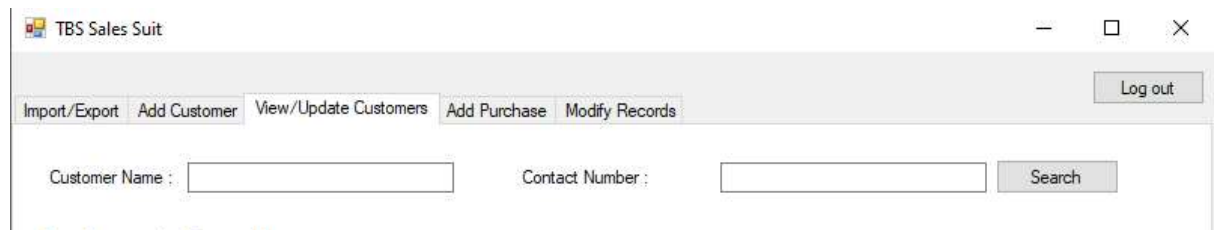
Enter the “Customer Name” and/or “Contact Number” of a Customer to search for his/her information. After entering, click in “Search” button.

This will display the available user information if exists in the database. User may edit the details and click on “Update” button to update Customer information.

5.5. Search Customer:

Click the “View/Update Customer” tab on the top Menu.

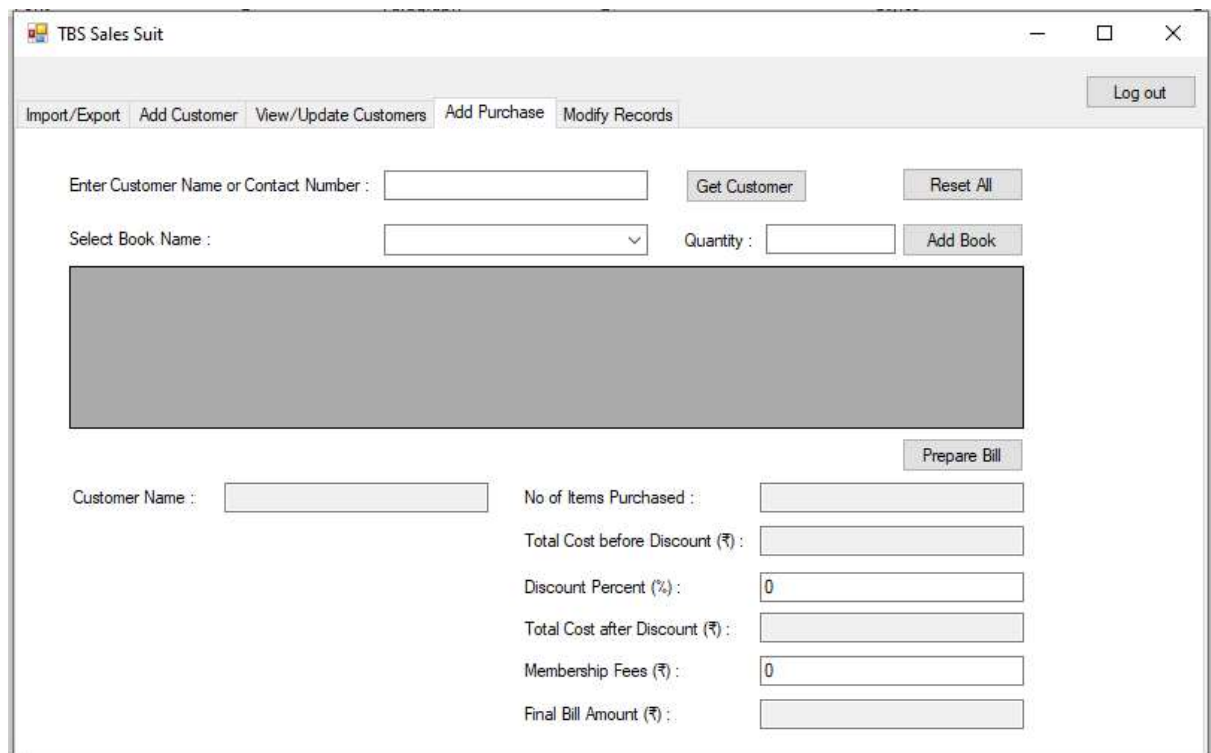
Enter the “Customer Name” and/or “Contact Number” of a Customer to search for his/her information. After entering, click in “Search” button.



The screenshot shows the TBS Sales Suit application window. The title bar reads "TBS Sales Suit". The menu bar contains "Import/Export", "Add Customer", "View/Update Customers", "Add Purchase", and "Modify Records". A "Log out" button is in the top right. Below the menu bar, there are two input fields: "Customer Name :" and "Contact Number :". To the right of these fields is a "Search" button.

5.6. Add Purchase entry

Select “Add Purchase” tab from the top Menu. The screen will display as shown below.



The screenshot shows the TBS Sales Suit application window with the "Add Purchase" tab selected. The title bar reads "TBS Sales Suit". The menu bar contains "Import/Export", "Add Customer", "View/Update Customers", "Add Purchase", and "Modify Records". A "Log out" button is in the top right. Below the menu bar, there are several input fields and buttons. On the left, there is a label "Enter Customer Name or Contact Number :" followed by an input field. To the right of this field are two buttons: "Get Customer" and "Reset All". Below this, there is a label "Select Book Name :" followed by a dropdown menu. To the right of the dropdown is a label "Quantity :" followed by an input field. To the right of the quantity field is a button "Add Book". Below these fields is a large grey rectangular area. At the bottom right of this area is a button "Prepare Bill". Below the grey area, there are several input fields arranged in two columns. The left column contains: "Customer Name :", "Total Cost before Discount (₹) :", "Discount Percent (%) :", "Total Cost after Discount (₹) :", "Membership Fees (₹) :", and "Final Bill Amount (₹) :". The right column contains: "No of Items Purchased :", "0", "0", "0", and "0".

To add a Purchase entry, we need a Customer to whom we are creating the purchase entry and the Items the Customer is buying with its quantity details.

First enter Customer Name or Contact Number in the given field and click on “Get Customer” button. This will retrieve the Customer information and displays the name in the below given Customer name field.

Select a Book name from the drop down given and also enter its quantity then click on “Add Book” button. This is add the entry to the current Purchase list as shown below.

The screenshot shows the 'TBS Sales Suit' application window with the 'Add Purchase' tab selected. At the top, there are navigation buttons: 'Import/Export', 'Add Customer', 'View/Update Customers', 'Add Purchase', and 'Modify Records'. A 'Log out' button is in the top right corner. The main form area contains the following elements:

- Customer Information:** A text field labeled 'Enter Customer Name or Contact Number:' with the value '9912345678'. To its right is a 'Get Customer' button (highlighted with a blue border) and a 'Reset All' button.
- Book Selection:** A dropdown menu labeled 'Select Book Name:' with 'BOOKA' selected. To its right is a 'Quantity:' field with the value '2' and an 'Add Book' button.
- Table:** A table with 7 columns: Name, Author, Genre, Price, AvailableCount, and QuantitySelected. The first row is highlighted in blue and contains the data: 'BOOKA', 'Adam', 'Drama', '550', '20', and '2'. Below the table is a scrollbar.
- Summary Fields:** A 'Prepare Bill' button is located below the table. Below it are several input fields:
 - 'Customer Name:' with the value 'Ram'.
 - 'No of Items Purchased:' (empty).
 - 'Total Cost before Discount (₹):' (empty).
 - 'Discount Percent (%):' with the value '0'.
 - 'Total Cost after Discount (₹):' (empty).
 - 'Membership Fees (₹):' with the value '0'.
 - 'Final Bill Amount (₹):' (empty).

If the user logged in is of Role, “Manager”, then he will be allowed to override the discount percent for the current Purchase entry. To do so, enter a discount percent value in the “Discount Percent” field.

In order to issue membership to the customer whose name is mentioned in the “Customer Name” field, enter a fee amount of Rs.500 (as per requirement) in the “Membership Fees” field.

This will create a membership for the customer with 1 year of validity.

To generate a bill for the current selected list of purchase items, click on “Prepare Bill” button.

This will calculate the discount price for the customer based on his/her Purchase history records in the database and the discount criteria as mentioned below:

1. If Membership card is enrolled for new or existing customer, flat discount of 5% in addition to the discount criteria as below: (Membership card fee= Rs.500 valid for 1 year. Discount does is not applicable on membership fee)
2. If new customer DISC = 2%
3. If new customer and purchase bill amount is > 5000 then DISC = 3%
4. If existing customer and billing date = birth month, then DISC = flat 20%
5. If existing customer and No. of purchases >5 then DISC = 3%
6. If existing customer and Total purchase amount so far > 6000 then DISC = 5%
7. If existing customer and member since 5 years then flat DISC = 20%

NOTE:

1. Manager can override the discount percent by manually entering a new value.
2. Discount cannot be applied on the Membership fees paid.

The final bill amount will be generated and displayed as shown below.

The screenshot shows the 'TBS Sales Suit' application window with the 'Add Purchase' tab selected. The interface includes a menu bar with options: Import/Export, Add Customer, View/Update Customers, Add Purchase, and Modify Records. A 'Log out' button is in the top right corner.

Below the menu bar, there is a search bar labeled 'Enter Customer Name or Contact Number : 9912345678' with a 'Get Customer' button and a 'Reset All' button. Below this is a 'Select Book Name : BOOKC' dropdown menu, a 'Quantity : 1' input field, and an 'Add Book' button.

A table displays the selected books:

	Name	Author	Genre	Price	AvailableCount	QuantitySelected
▶	BOOKA	Adam	Drama	550	20	2
	BOOKC	Sam	Comedy	400	25	1

Below the table is a 'Prepare Bill' button. The bottom section contains a 'Customer Name : Ram' input field and a summary of the purchase:

No of Items Purchased : 3
Total Cost before Discount (₹) : 1500
Discount Percent (%) : 0.2
Total Cost after Discount (₹) : 1200
Membership Fees (₹) : 0
Final Bill Amount (₹) : 1200

To add another Purchase entry, click on "Reset All" button at the top right area. This will clear all the entries in the fields and allows the user to enter another Purchase entry.