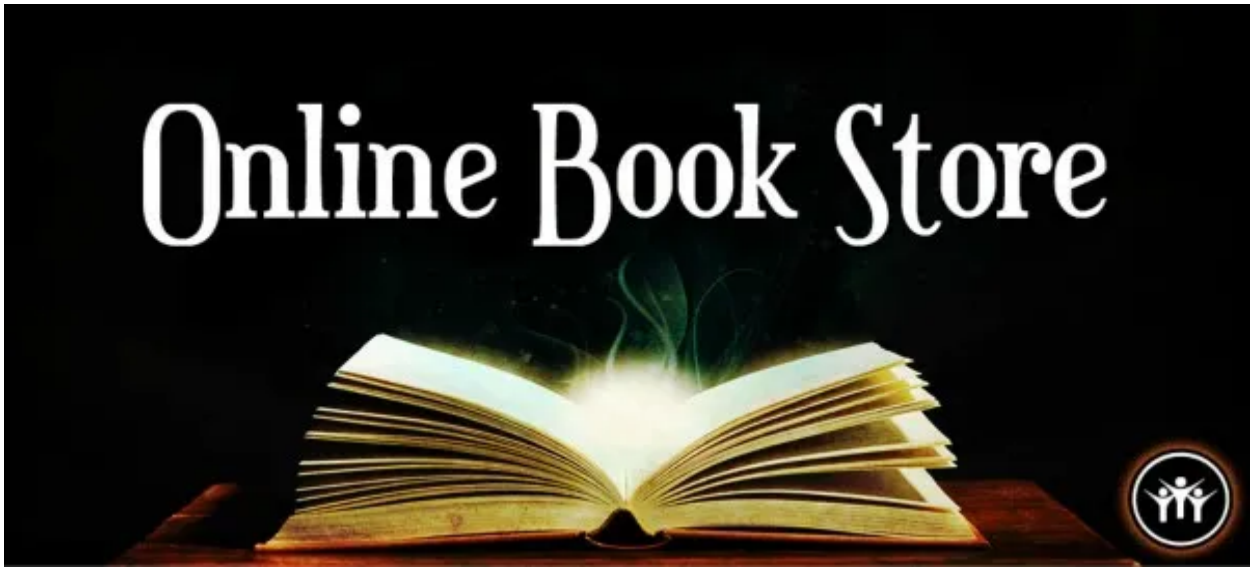
0.0.SOFTWARE ENGINEERING

PROJECT 01 REPORT
BOOKSTORE MANAGEMENT SYSTEM



(1.1) OVERVIEW OF THE PROJECT :

Bookstore management system mainly focuses on the activities of a book store such as information on books and books sold to customers. The database flexibility, convenient features, the maximum increase in customer service, access to accurate information make this ideal for all sizes of book stores.

The system supports the book orders, current status of books, customer order process, and customer personnel information. The database maintained by this system usually contains the store details, book details, data of publishers, author personnel information, book instances, order details and customer details.

(1.2) PURPOSE OF THE PROJECT :

The main purpose of a **Book-store Management System** is to focus on the solution of all the problems related to the paperwork for different reasons. It provides a facility to handle all the activities in one place. With the help of this application, the admin can perform different kinds of operations at the same time and place.

Bookstore management System has the ability to keep records safe related to Books. We provide the best service on our website or focus on user choice. We will improve the new feat so users can easily understand and trust our system.

(1.3) SCOPE OF THE PROJECT :

- The intentions of the Bookstore Management System are to reduce overtime pay and increase the number of records that can be treated accurately; Requirements statements in this document are both functional and non-functional.
- Correct and Accurate Searching provides the result by applying the search operation.
- Customers can book a book with just a few clicks.
- Give flexibility to admin to use the database effectively and utilize the word, not pad, and calculator Unambiguous and understandable by all level facilities effectively.
- Unambiguous and understandable at all levels.

(1.4) PROJECT BACKGROUND :

- This Bookstore Management System Software allows the Admin to store the book details and the customer details.
- Easier access to information like customer information and
- Provide a facility for storing data to reduce the paperwork.
- In Bookstore Management System Users can buy a book and Admin shows their name and another background of the user.
- A new idea about Project how Bookstore Management System works.
- To make a system computerized.

(1.4.1) APPLICABILITY OF THE PROJECT :

- For customers who want to buy books anywhere or anytime.
- Admin is applicable for insert books, list of books.
- The database is used for storing and fetching data from or to the database so both users and admin can fetch or read data.

(4.1.2) REQUIREMENT SPECIFICATION :

The Bookstore management system contains two main modules, that is an Admin Module and Client Module…

Functionalities of Admin :

This Module includes the mainly following tasks :

- Entry of Category.
- Category List.

- Add a New Book.
- View Book.
- View Message which is sent by Client.

Functionalities of Client :

This Module includes the mainly following tasks :

- View Books.
- Add books to Cart.
- Search Books.
- View or Add items to Cart.

(4.1.3) HARDWARE REQUIREMENTS :

- System type 32-bit Operating System.
- Windows 7/8/8.1/10
- Linux OS / Mac OS / Windows OS
- 350MB RAM

(4.1.4) SOFTWARE REQUIREMENTS :

- Wamp Server (Not now)
- MySQL
- Browser
- PHPMyAdmin

(4.1.5) PROJECT ANALYSIS AND PLANNING :

The Bookstore Management System is critical to set up online orders, for customers to browse through book categories**.** This is a small-scale project Bookstore Management System.

The basic idea is that customers can buy a book from anywhere at any time with cash through.

User :

- Users can Register, Login, Logout the system.
- View different categories and books.
- Contact with Admin
- Add Books to Cart
- Order Books

Admin :

- Admin can manage the system.
- Provide books.
- Admin can insert a book or manage the records.

(4.1.6) DATABASE DESIGN AND STRUCTURE :

Various tables used in the System are as follows:

1. Admin
2. Book
3. Category
4. Contact
5. Register
6. Order

Conclusion

- At first look, we can say that Bookstore Management System is a perfect system but it has many limitations that are as follow :
- This is also used to list the category and books, also manage the customer and books of the Bookstore.
- The Bookstore Management System is used to give information about the Books to the customer.
- We faced problems like Database creation, the Flow of our system, designing front-end and back-end tools, coding, etc.
- Only a single user can use a system at a time.
- In this system, we cannot add a service module.
- We learned new languages like jQuery, PHP, Bootstrap, HTML, CSS, etc.

(1.5) LIMITATIONS OF THE SYSTEM :

Help

Currently, the help feature is not available. Using this functionality users can get help with the system.

Payment

Currently, the feature of online payment is not available. Users cannot give payment online.

Multilingual

Multilingualism is not supported in our system. Therefore users cannot work in different languages.

Backup & Recovery:

Users cannot take the backup or recover the data in this system.

Many More Others.

(1.6) FUTURE SCOPE OF THE PROJECT :

Help module

Using this module users can get help on how to access the system. All functionalities of the system are described in this module. And user can easily access the entire module using this feature.

Online payment module

Users can do their payment online using this functionality. In the future, we will add an online payment to make payment easier for the user.

Multilingual

In this system we will add the multilingual therefore users can work in different languages and understand easily.

(1.7) INPUT AND OUTPUT DESIGN :

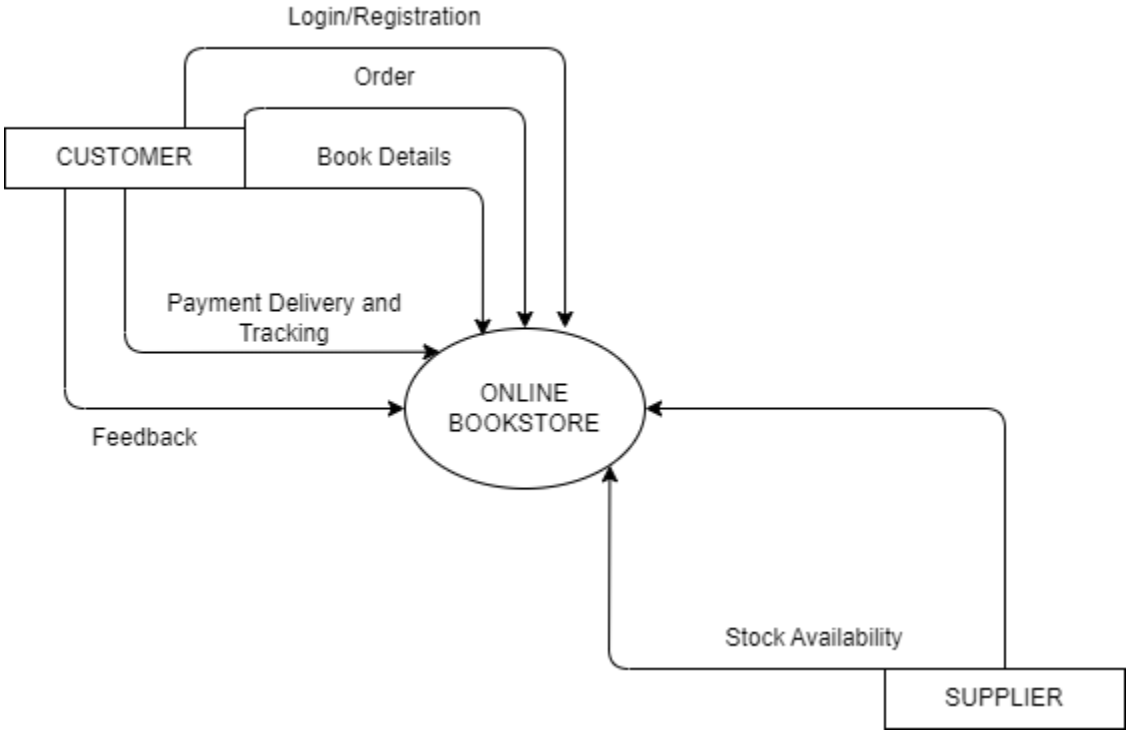
1. Home Page – Home Page of Bookstore Management System without logged-in User.
2. Selected Category – The detective Category is selected. Shows the

Books of Detective Category.
3. Book Details (Before Login) – Book Detail for Visitors. Visitors can't add Books to Add to Cart.
4. Visitor Login Page – Login Page for Viewers.
5. Register Page – Register Page for Viewers.
6. Contact Us Page
7. Cart Page
8. Order Page – Only Cash On Delivery is Available for Orders.
9. Home Page (Logged In) – Automatically Navigation Bar Changed. The user Can Log Out.
10. Book Details (Logged In) – Users can Add Books To Add to the cart. Removed Sign in Link.
11. Add to Cart (Logged In) – Users Can add books to add to cart. Details of books and price. Click Recalculate to Qty, Rate, and Total will Calculate. Users can order Books.
12. Search Books – Book Search Feature.
13. Admin Login Page – New Template.
14. Admin Home Page – New Template.
15. Add Category (Admin)
16. View Category – List of Books.
17. Add Books
18. View Books – List Books for Admin.
19. View Contacted List – List of People who Contacted using Contacted Page.
20. Users List
21. Forget the Password

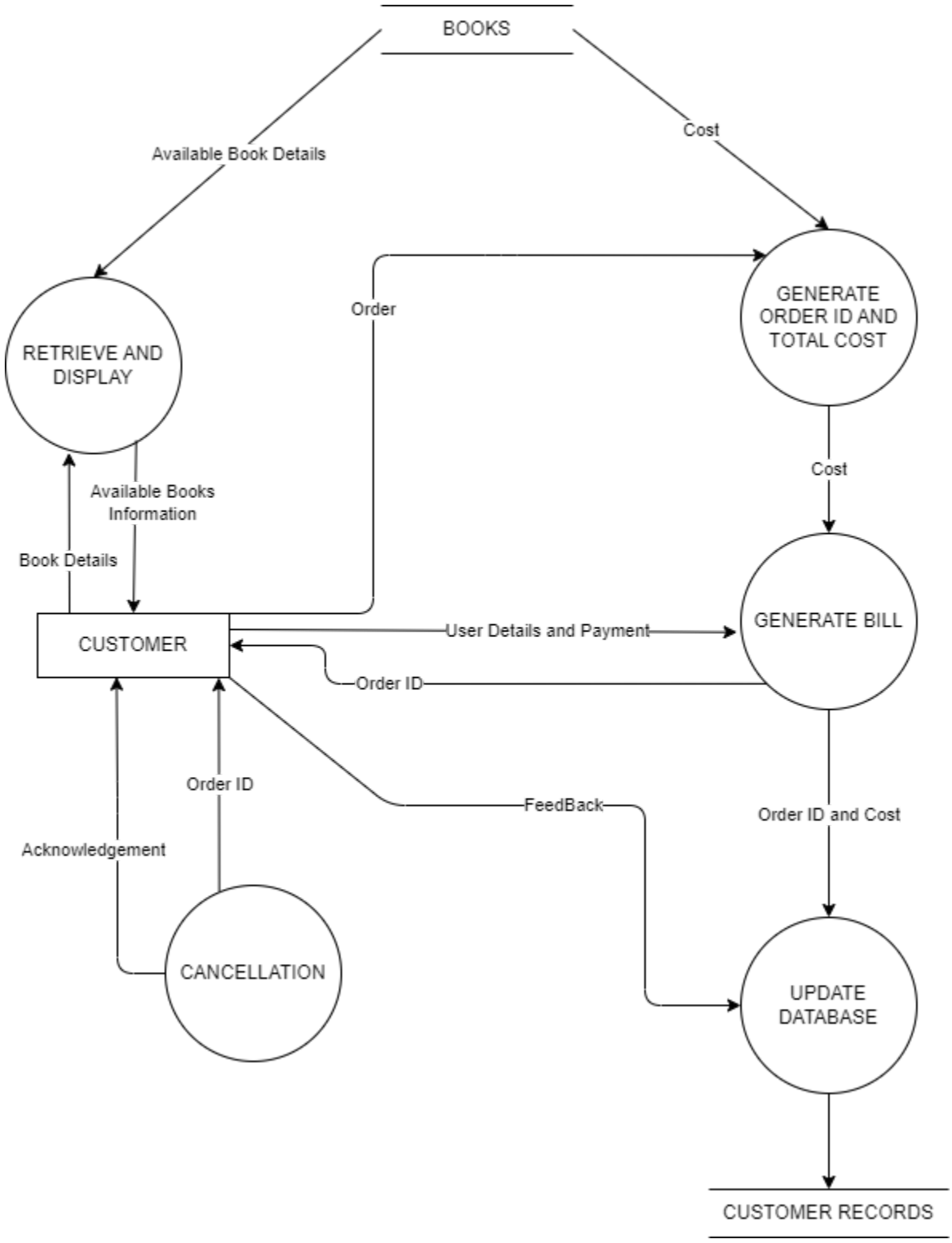
OBJECT ORIENTED PROGRAMMING SYSTEMS MINI PROJECT

ONLINE BOOK-STORE MANAGEMENT SYSTEM Data Flow Diagrams :

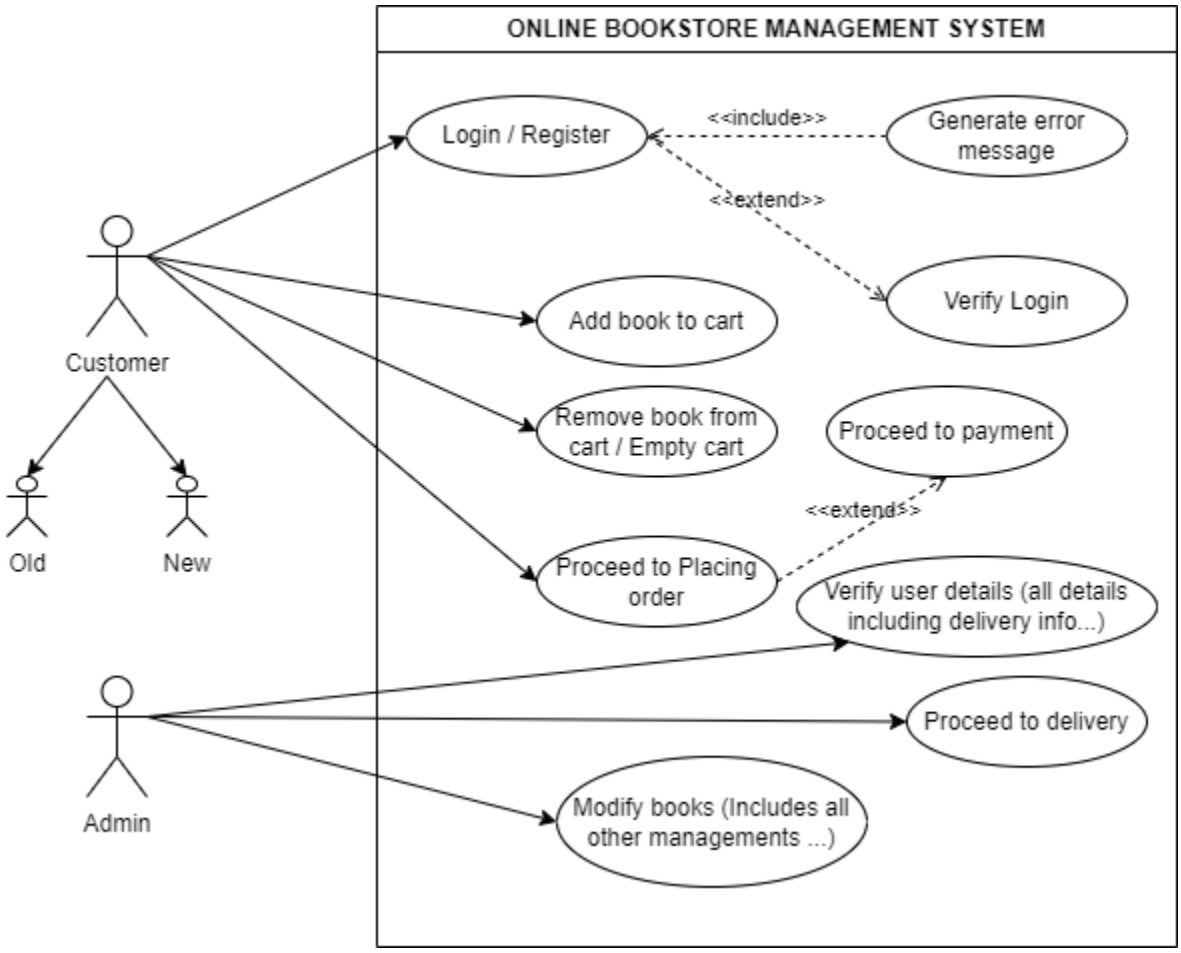
LEVEL 01 :



LEVEL 02 :

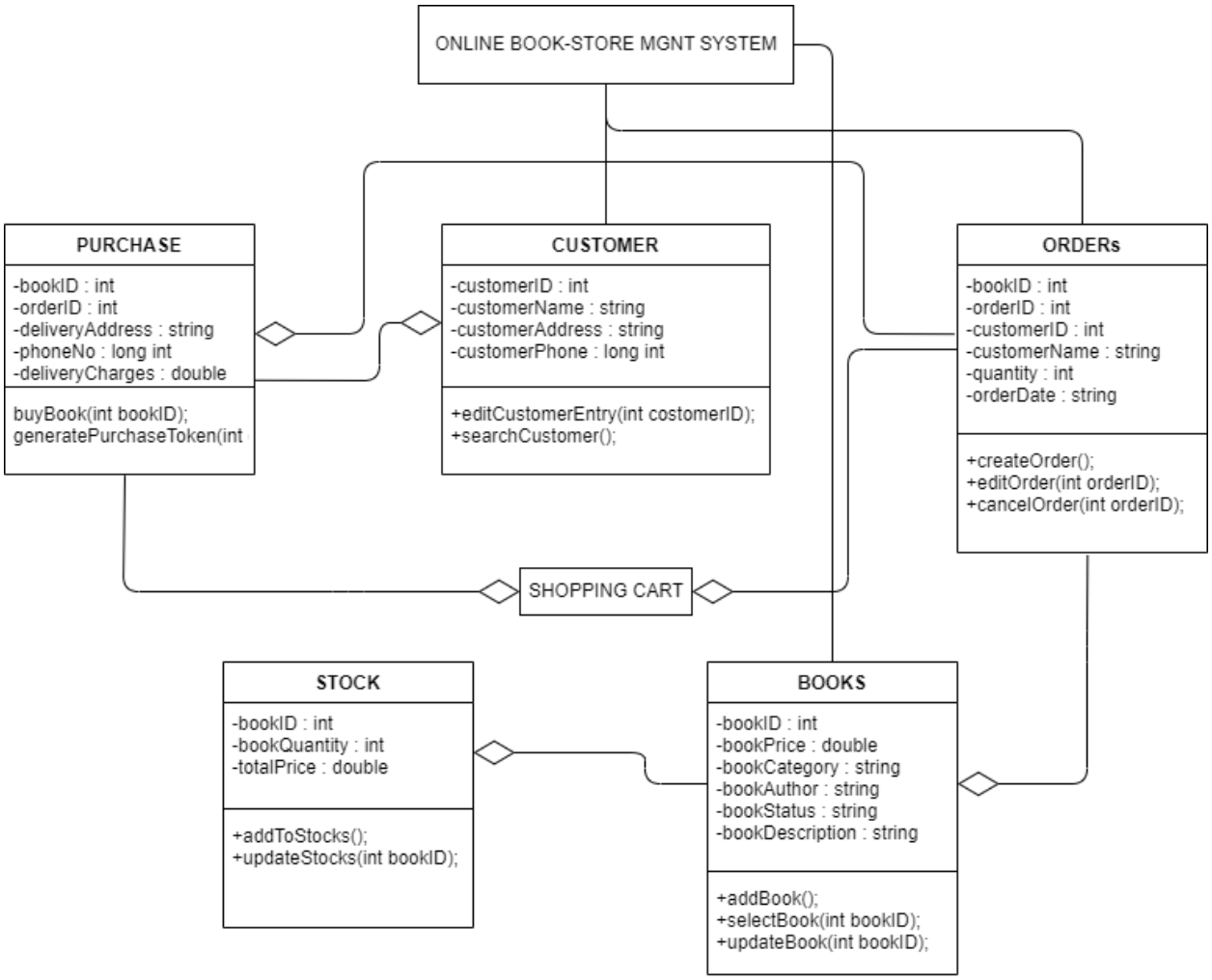

BOOKS
Available Book Details
Cost
RETRIEVE AND DISPLAY
Order
GENERATE ORDER ID AND TOTAL COST
Cost
Available Books Information
Book Details
CUSTOMER
User Details and Payment
GENERATE BILL
Order ID
Order ID
FeedBack
Order ID and Cost
Acknowledgement
CANCELLATION
UPDATE DATABASE
CUSTOMER RECORDS

ONLINE BOOK-STORE MANAGEMENT SYSTEM Use Case Diagrams :



OBJECT ORIENTED PROGRAMMING SYSTEMS MINI PROJECT

ONLINE BOOK-STORE MANAGEMENT SYSTEM Class Diagrams :



OBJECT ORIENTED PROGRAMMING SYSTEMS MINI PROJECT

// LOGIN PAGE :

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Data.SqlClient;

namespace BookStoreMSystem
{
   public partial class Login_Page : Form
   {
      public Login_Page()
      {
         InitializeComponent();
      }

      private void Login_Page_Load(object sender, EventArgs e)
      {

      }

      private void login_button_Click(object sender, EventArgs e)
      {
         string ConnectionString = "Data Source=HAYDC24\\SQLEXPRESS;Initial
Catalog=UserInfo;Integrated Security=True"; // Address of SQL server and database...
         SqlConnection con = new SqlConnection(ConnectionString); // Establish connection...
         con.Open(); // Open connection...

         // Prepare Query...
         string Query = "INSERT INTO UserInformation VALUES ('" + userName.Text + "', '" +
userEmail.Text + "', '" + userPassword.Text + "')";
         SqlCommand cmd = new SqlCommand(Query, con); // Execute Query...
         cmd.ExecuteNonQuery();
         con.Close(); // Close connection...

         MessageBox.Show("Successfully Logged in !");
         Main_Page main_page = new Main_Page();
         main_page.Show();
      }
```

```
        private void login_page_label(object sender, EventArgs e)
        {

        }

        private void login_page_image_box(object sender, EventArgs e)
        {

        }

        private void cancel_button_Click(object sender, EventArgs e)
        {
            External_Page expernal_Page = new External_Page();
            expernal_Page.Show();

        }

        private void user_name(object sender, EventArgs e)
        {

        }

        private void user_email(object sender, EventArgs e)
        {

        }

        private void user_password(object sender, EventArgs e)
        {

        }

        private void agree_login_check_mark(object sender, EventArgs e)
        {

        }

        private void admin_page_button_Click(object sender, EventArgs e)
        {
            Admin_Page admin_page = new Admin_Page();
            admin_page.Show();
        }
    }
```

```
}
// ADMIN PAGE :
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Data.SqlClient;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace BookStoreMSystem
{
   public partial class Admin_Page : Form
   {
      public Admin_Page()
      {
         InitializeComponent();
      }

      private void button1_Click(object sender, EventArgs e)
      {

      }

      private void searchButton_Click(object sender, EventArgs e)
      {
         string ConnectionString = "Data Source=HAYDC24\\SQLEXPRESS;Initial
Catalog=BooksDB;Integrated Security=True";
         SqlConnection con = new SqlConnection(ConnectionString);

         string Query = "SELECT * FROM Book_Specification WHERE bookID LIKE @bookID +
'%' OR bookName LIKE @bookName + '%' OR bookPublishDate LIKE @bookPublishDate + '%'
OR bookAuthor LIKE @bookAuthor + '%' OR bookGenere LIKE @bookGenere + '%' OR
bookPrice LIKE @bookPrice + '%'";
         SqlDataAdapter sda = new SqlDataAdapter(Query, con);
         sda.SelectCommand.Parameters.AddWithValue("@bookID",searchTextBox.Text.Trim());

sda.SelectCommand.Parameters.AddWithValue("@bookName",searchTextBox.Text.Trim());

sda.SelectCommand.Parameters.AddWithValue("@bookPublishDate",searchTextBox.Text.Trim(
));
```

```
sda.SelectCommand.Parameters.AddWithValue("@bookAuthor",searchTextBox.Text.Trim());

sda.SelectCommand.Parameters.AddWithValue("@bookGenere",searchTextBox.Text.Trim());

sda.SelectCommand.Parameters.AddWithValue("@bookPrice",searchTextBox.Text.Trim());
            DataTable data = new DataTable();
            sda.Fill(data);

            booksDataGridView.DataSource = data;
            searchTextBox.Text = "";
            con.Close();
        }

        private void modifyButton_Click(object sender, EventArgs e)
        {
            Modify_Page modify_Page = new Modify_Page();
            modify_Page.Show();
        }

        private void refreshButton_Click(object sender, EventArgs e)
        {
            string ConnectionString = "Data Source=HAYDC24\\SQLEXPRESS;Initial
Catalog=BooksDB;Integrated Security=True";
            SqlConnection con = new SqlConnection(ConnectionString);
            con.Open();
            string Query = "SELECT * FROM Book_Specification";
            SqlCommand cmd = new SqlCommand(Query, con);
            var reader = cmd.ExecuteReader();

            DataTable table = new DataTable();
            table.Load(reader);
            booksDataGridView.DataSource = table;

            con.Close();
        }

        private void booksDataGridView_CellContentClick(object sender,
DataGridViewCellEventArgs e)
        {

        }

        private void Admin_Page_Load(object sender, EventArgs e)
```

```
        {

        }
    }
}
```

// MODIFY PAGE :

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Data.SqlClient;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace BookStoreMSystem
{
    public partial class Modify_Page : Form
    {
        public Modify_Page()
        {
            InitializeComponent();
        }

        private void Modify_window_Load(object sender, EventArgs e)
        {

        }

        private void updateButton_Click(object sender, EventArgs e)
        {
            string ConnectionString = "Data Source=HAYDC24\\SQLEXPRESS;Initial
Catalog=BooksDB;Integrated Security=True";
            SqlConnection con = new SqlConnection(ConnectionString);
            con.Open();

            string ID = bookIdTextBox.Text;
            string Name = bookNameTextBox.Text;
            string PDate = bookPDateTextBox.Text;
            string Author = bookAuthorTextBox.Text;
            string Genre = bookGenreTextBox.Text;
```

```
            string Price = bookPriceTextBox.Text;

            string Query = "UPDATE Book_Specification SET bookName = '" + Name + "',
bookPublishDate = '" + PDate + "', bookAuthor = '" + Author + "', bookGenere = '" + Genre + "',
bookPrice = '" + Price + "' WHERE bookID = " + ID;
            SqlCommand cmd = new SqlCommand(Query, con);
            cmd.ExecuteNonQuery();
            con.Close();

            MessageBox.Show("Entry updated Successfully !");
            bookIdTextBox.Text = "";
            bookNameTextBox.Text = "";
            bookAuthorTextBox.Text = "";
            bookGenreTextBox.Text = "";
            bookPDateTextBox.Text = "";
            bookPriceTextBox.Text = "";
        }

        private void searchTextBox_TextChanged(object sender, EventArgs e)
        {

        }

        private void showRecordButton_Click(object sender, EventArgs e)
        {

        }

        private void deleteButton_Click(object sender, EventArgs e)
        {
            string ConnectionString = "Data Source=HAYDC24\\SQLEXPRESS;Initial
Catalog=BooksDB;Integrated Security=True";
            SqlConnection con = new SqlConnection(ConnectionString);
            con.Open();

            string ID = bookIdTextBox.Text;

            string Query = "DELETE FROM Book_Specification WHERE bookID = "+ ID;
            SqlCommand cmd = new SqlCommand(Query, con);
            cmd.ExecuteNonQuery();
            con.Close();

            MessageBox.Show("Entry deleted Successfully !");
```

```
            // Clearing the text boxes after operations...
            bookIdTextBox.Text = "";
            bookNameTextBox.Text = "";
            bookAuthorTextBox.Text = "";
            bookGenreTextBox.Text = "";
            bookPDateTextBox.Text = "";
            bookPriceTextBox.Text = "";
        }

        private void insertRecordButton_Click(object sender, EventArgs e)
        {
            string ConnectionString = "Data Source=HAYDC24\\SQLEXPRESS;Initial
Catalog=BooksDB;Integrated Security=True";
            SqlConnection con = new SqlConnection(ConnectionString);
            con.Open();

            string Query = "INSERT INTO Book_Specification VALUES ('"+bookIdTextBox.Text+"',
'"+bookNameTextBox.Text+"', '"+bookAuthorTextBox.Text+"', '"+bookGenreTextBox.Text+"', '"+
bookPDateTextBox.Text + "', '"+ bookPriceTextBox.Text + "') ";
            SqlCommand cmd = new SqlCommand(Query, con);
            cmd.ExecuteNonQuery();
            con.Close();

            MessageBox.Show("Entry inserted Successfully !");

            // Clearing the text boxes after operations...
            bookIdTextBox.Text = "";
            bookNameTextBox.Text = "";
            bookAuthorTextBox.Text = "";
            bookGenreTextBox.Text = "";
            bookPDateTextBox.Text = "";
            bookPriceTextBox.Text = "";

        }
    }
}
```

// MAIN PAGE :

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
```

```
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace BookStoreMSystem
{
    public partial class Main_Page : Form
    {
        public Main_Page()
        {
            InitializeComponent();
        }

        private void Form2_Load(object sender, EventArgs e)
        {

        }

        private void button2_Click(object sender, EventArgs e)
        {
            Help_Page help_Page = new Help_Page();
            help_Page.Show();
        }

        private void label3_Click(object sender, EventArgs e)
        {

        }

        private void books_button_Click(object sender, EventArgs e)
        {
            Books_Page books_Page = new Books_Page();
            books_Page.Show();
        }

        private void category_button_Click(object sender, EventArgs e)
        {
            Category_Page category_Page = new Category_Page();
            category_Page.Show();
        }

        private void cart_button_Click(object sender, EventArgs e)
        {
            Cart_Page cart_Page = new Cart_Page();
```

```
            cart_Page.Show();
        }

        private void logout_button_Click(object sender, EventArgs e)
        {
            Exit_Page exit_Page = new Exit_Page();
            exit_Page.Show();
        }

        private void main_page_side_bar(object sender, EventArgs e)
        {

        }

        private void main_page_label(object sender, EventArgs e)
        {

        }

        private void pictureBox1_Click(object sender, EventArgs e)
        {

        }
    }
}
```

// BOOKS PAGE :

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Data.SqlClient;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace BookStoreMSystem
{
    public partial class Books_Page : Form
    {
        public Books_Page()
        {
```

```
            InitializeComponent();
        }

        private void Books_Page_Load(object sender, EventArgs e)
        {

        }

        private void dataGridView1_CellContentClick(object sender, DataGridViewCellEventArgs
e)
        {

        }

        private void showBooks_Click(object sender, EventArgs e)
        {
            string ConnectionString = "Data Source=HAYDC24\\SQLEXPRESS;Initial
Catalog=BooksDB;Integrated Security=True";
            SqlConnection con = new SqlConnection(ConnectionString);
            con.Open();
            string Query = "SELECT * FROM Book_Specification";
            SqlCommand cmd = new SqlCommand(Query, con);
            var reader = cmd.ExecuteReader();

            DataTable table = new DataTable();
            table.Load(reader);
            booksDataGridView.DataSource = table;

            con.Close();
        }

        private void searchButton_Click(object sender, EventArgs e)
        {
            string ConnectionString = "Data Source=HAYDC24\\SQLEXPRESS;Initial
Catalog=BooksDB;Integrated Security=True";
            SqlConnection con = new SqlConnection(ConnectionString);

            string Query = "SELECT * FROM Book_Specification WHERE bookID LIKE @bookID +
'%' OR bookName LIKE @bookName + '%' OR bookPublishDate LIKE @bookPublishDate + '%'
OR bookAuthor LIKE @bookAuthor + '%' OR bookGenere LIKE @bookGenere + '%' OR
bookPrice LIKE @bookPrice + '%'";
            SqlDataAdapter sda = new SqlDataAdapter(Query, con);
            sda.SelectCommand.Parameters.AddWithValue("@bookID", searchTextBox.Text.Trim());
```

```
            sda.SelectCommand.Parameters.AddWithValue("@bookName",
searchTextBox.Text.Trim());
            sda.SelectCommand.Parameters.AddWithValue("@bookPublishDate",
searchTextBox.Text.Trim());
            sda.SelectCommand.Parameters.AddWithValue("@bookAuthor",
searchTextBox.Text.Trim());
            sda.SelectCommand.Parameters.AddWithValue("@bookGenere",
searchTextBox.Text.Trim());
            sda.SelectCommand.Parameters.AddWithValue("@bookPrice",
searchTextBox.Text.Trim());
            DataTable data = new DataTable();
            sda.Fill(data);

            booksDataGridView.DataSource = data;
            searchTextBox.Text = "";
            con.Close();
        }

        private void searchTextBox_TextChanged(object sender, EventArgs e)
        {

        }

        private void booksDataGridView_CellContentClick(object sender,
DataGridViewCellEventArgs e)
        {

        }
    }
}
```