CSC103 Programming Fundamentals

Project Report

Online Book Shop Management System

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Programing Fundamentals Project Report

> INTRODUCTION:

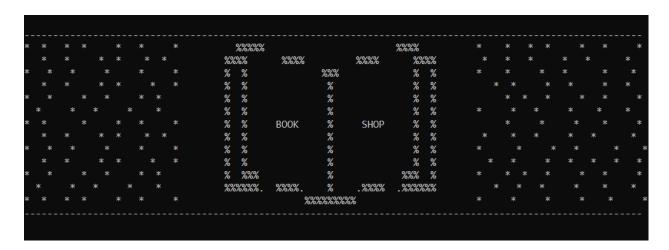
The project is on the **ONLINE BOOK SHOP MANAGEMENT SYSTEM.** The presenters of the project are:

MUHAMMAD SARIM SP22-BSE-040
 KHOLA GOHAR SP22-BSE-022.
 MUHAMMAD NOMAN SP22-BSE-037

Following are features of the project:

- Admin login.
- Costumer login.
- Book records.
- Sales records.

This application mainly helps in **keeping the record** of the books and makes the sales of the books easier. This is a user friendly and admin friendly application. All the books are **found under one roof** and thus can be bought easily. The owner will be able to update, view and change the data.



> MAIN FEATURES:

- o To access an application, An Admin or Customer must first authenticate into our system using their username and password. The user is denied access when a login attempt fails. They serve as a security mechanism to guard against unauthorized access to sensitive information.
- o Online Book Shop is used when someone wants to buy a book online from the shop. He can add books to his cart and buy them if he wants to buy them.
- o Another feature of add book in cart is that after a customer has add a book once in cart, the program will prevent him from adding it again in cart.

- The automatic generation of registration numbers is another characteristic that attracts attention. Any entity will automatically receive a registration number from the system, which will also check to make sure it hasn't already been used by another party. If this is the case, the application won't stop until a unique registration number is generated.
- o The Customer or admin can navigate to the previous menu / main menu whenever he wants.
- o Admin sale a book himself to any customer in the shop.

> SCOPE OF THE PROJECT:

It helps in collecting perfect management details in a very short time for **obvious**, **simple**, **and easy collection**. **It reduces the cost of collecting the management** and reduces the cost of collecting management.

Our project aims at business process automation i.e., we have tried to computerize various processes of book shop management system. they are as follows:

- Forms can be easily generated and there is no need to do work manually.
- System generates type of information that can be used for various purposes.
- Satisfies the user requirements.
- It's easy to operate.
- **Easy to understand** by user and operator.
- Encrypted id and password for both admin and customer

> TASK DISTRIBUTION:

Khola Gohar	Books		
M. Noman	Customer		
M. Sarim	Sales and Cart		

> CONCEPTS INTRODUCED:

Following are the concepts involved in this project:

- **File handling.** (Storing of data at the backend.)
- Exception handling.
- Arrays. (Deleting, updating of data, getting inputs and outputs.)
- Conditional statements.
- Loops.
- Recursion.
- Methods

> SIGN-IN DETAILS:

Every member using this book shop management system has its own login.it includes login as a:

- Book shop admin login.
- Costumer login.

To login correctly you must go through the following steps:

- As a customer, enter the correct password and login id provided by the admin.
- As an admin enter the correct password and username

After you have successfully signed into your account you reach the main menu.

> SIGN-UP DETAILS FOR THE CUSTOMER:

If we have a new costumer who has no previous account, he must go through the process off signing in by:

- The customer is provided with the **password** that is emailed by the admin.
- **User id** is generated randomly. A unique number that is always generated and checked thoroughly that weather is it unique or not.

Customer can sign up by providing the following information:

- Name of the customer in the form of a string.
- **Gender** of the customer by selecting the relevant point.
- Providing the phone number if the form of (0000-0000000). Any number entered other than pattern will not be considered, and the customer is asked to enter phone number again.

- Valid **email ID** of the customer.
- Address of the customer with complete information of the house number,

```
*************************
our reg id no. is: 268
Enter your name:
Enter your gender:
Options:
2.FEMALE
.OTHER
Enter your phone number(0000-0000000):
Enter your Gmail Id(Must be correct):
creatify60@gmail.com
Enter your address:-
Enter House Number:
Enter Street Number:
Enter your sector:
Faisal Town
Enter City name:
our UserID is 268 and you will get your password on your email within 5 minutes.
```

NOW THE CUSTOMER IS SUCCESSFULLY ADDED TO THE LIST OF THE CUSTOMERS.

> MAIN MENU:

Main menu handles all **the files and generate them**. It also handles **the login application** that consists of 4 options:

- Admin sign in.
- Customer sign in.
- Customers sign up.
- Termination of the program.

> ADMIN DETAILS:

Admin can perform the following tasks:

- Add book.
- View book.
- Update book.
- Search for a book.
- Delete a book.
- View customer.
- Update a customer.
- · Search for a customer.
- Delete a customer.
- Sale of book by admin.
- View book record sold by admin.
- · View book record reserved by customer.

ADDITION OF THE BOOK:

Book can be added by the following procedure:

- Enter the **book id** of your own choice. If the book id already exists it prints the message that it is already present and asks to reenter a unique value.
- Enter **the book's name and author's name**. If an integer value or any other value other than string is written it asks the user to write the value again.
- **Book type** is entered by the user.
- Published date is entered in form of (MM/DD/YYYY). If entered ither than this, it asks the user to enter date again.
- Price and quantity of books is asked.

NOW THE BOOK HAS SUCCESSFULLY ADDED TO THE BOOK SHOP.

If you want to add more books it can be done by pressing "y" or "Y".

```
*ADD BOOK RECORD*
Enter book id:
126
Enter book name:
Charlie
Enter author's name:
Chaplin
Book type:-
1-Informational(Study) 2-Adventure story
                                                3-Novel
                        5-Children story
4-Crime book
                                                6-Science friction
7-Historical story
                       8-Horror story
                                                9-Mystery story
10-Poetry book
                        11-Someone biography
                                                12-Other
Choose book type:
Enter the Date (MM/DD/YYYY):
02/11/2021
Enter book price:
7000
Enter book quantity:
Book with id 126 was added succesfully.
Want to add more Book records? (Y/n)
```

VIEW BOOK:

Added books can be viewed by selecting the option "VIEW BOOK."

		3	5 1					

	VIEW BOOK RECORD							

=====	=======================================		==========					
BOOK :	ID BOOK NAME	AUTHOR NAME	BOOK TYPE	PUBLISHED on	PRICE/BOOK	QUANTITY		
=====						========		
126	Charlie	Chaplin	Mystery	02/11/2021	7000	3		

UPDATE BOOK:

Book can be UPDATED by the following procedure:

- It asks the **id of the book** you want to update. If no book of such id is present, then it asks to enter the id again.
- You can update the book name, author's name, book quantity, book type, published date of the book and its price by selecting the respective point.
 If anything, else entered it asks the user to enter it again.

```
Enter book id to update book:

126

You can update data:-
1)BOOK NAME

2)AUTHOR'S NAME

3)BOOK TYPE

4)DATE OF PUBLISH
5)BOOK PRICE
6)BOOK QUANITITY
Choose option to update:
3

Book type:-
1-Informational(Study) 2-Adventure story 3-Novel
4-Crime book 5-Children story 6-Science friction
7-Historical story 8-Horror story 9-Mystery story
10-Poetry book 11-Someone biography 12-Other
Choose book type: 1

Book type updated.
```

NOW THE BOOK HAS SUCCESSFULLY UPDATED IN THE BOOK SHOP.

SEARCH A BOOK:

Book can be searched by the following procedure:

- It asks for the valid id of the book to be searched.
- It then asks the user if it wants to search the full details, book name, author's name, book type, publish date, price, and quantity of the book by selecting the respective point.

```
Enter book id to search:
Enter choice you want to search
1-All details
2-Book name only
3-Author name only
1-Book type
-Publish date only
-Price only
7-Quantity only
8-Back to book records
Choose option:
                                   AUTHOR NAME
                                                                                                PRICE/BOOK
126
                 Charlie
                                           Chaplin
                                                             Study
                                                                               02/11/2021
                                                                                                         7000
```

DELETE A BOOK:

Book can be deleted by entering the **id of the book** you want to delete. Note that the book id should be valid.

```
********
                                ********
                                ****
                                **** BOOK RECORDS
                                ****
                                                 ****
                                *********
Options
1-ADD book
2-VIEW book
3-UPDATE book
4-SEARCH any book
5-DELETE book
6-Back to main menu
Enter ur option:
Enter Book ID you want to delete:126
Delete book succesfully.
```

NOW THE BOOK HAS SUCCESSFULLY DELETED IN THE BOOK SHOP.

VIEW CUSTOMER:

Added customers can be viewed by selecting the option "VIEW CUSTOMERS."



UPDATE CUSTOMER:

Customer can be UPDATED by the following procedure:

- It asks the **id of the customer** you want to update. If no customer of such id is present, then it asks to enter the id again.
- You can update the customer's name, gender, phone number, email, address by **selecting the respective point**. If anything, else entered it asks the user to enter it again.

```
Enter Customer id to update customer:

268

You can update:-

1)Name

2)Gender

3)Phone no.

4)Email

5)Address

3
Enter new phone number:

0346-1674249
Phone number updated.
```

NOW THE CUSTOMER HAS SUCCESSFULLY UPDATED IN THE COSTUMERS LIST.

SEARCH A CUSTOMER:

Book can be searched by the following procedure:

- It asks for the **valid id of the customer** to be searched.
- It then asks the user if it wants to search the full details, costumers name, gender, phone number, email, address by selecting the respective point.

DELETE A CUSTOMER:

The customer can be deleted by entering the **id of the customer** you want to delete. Note that the customer id should be valid.

```
Options
1-VIEW customer
2-UPDATE customer
3-SEARCH customer
4-DELETE customer
5-Back to main menu
Choose option:
4
Enter customer id to delete:
268
Delete customer with id 268 successfully.
```

NOW THE BOOK HAS SUCCESSFULLY DELETED IN THE COSTUMERS LIST.

SALE A BOOK YOURSELF:

Book can be sold by the admin himself by the following procedure:

• Write the costumers valid id.

```
Choose option:

1
Enter Customer UserId to sale book:
663
Enter Book ID you want to sale from your shop:
111
Enter quantity of book want to sale:
1
Name of book whose id is 111: Chemistry
Total price of book? (Y/n)
```

VIEW A BOOK SOLD BY ADMIN:

Books sold by admin can be viewed by selecting the option **"VIEW BOOKS SOLD BY YOURSELF".**

CUSTOMER ID	CUSTOMER NAME	BOOK ID	BOOK NAME	PRICE	YTTMAUQ	
989	farooq	12	urdu	450	3	
35	ahsan	60	steve	365	1	
565	Manahil	120	grass	1120	7	

VIEW A BOOK RESERVED BY COSTUMER:

Books reserved by the costumer can be viewed by selecting the option **"RECORD" OF BOOK BUY BY COSTUMER.".**

CUSTOMER ID	CUSTOMER NAME	BOOK ID	BOOK NAME	PRICE	QUANTITY		
35	ahsan	 20	PF	2400	 2		
35	ahsan	60	steve	365	1		
989	farooq	150	croods	900	3		
565	Manahil	150	croods	600	2		
35	ahsan	10	chem	4000	2		

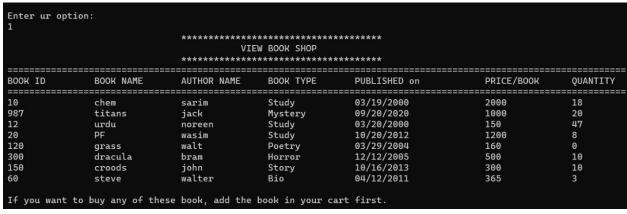
> CUSTOMER DETAILS:

Customer can perform the following tasks:

- View a book.
- Search a book.
- View and add a book in cart.
- View your cart and Buy a book.
- View Your Data
- Update Your Data

VIEW BOOK:

Added books can be viewed by the costumer that are already present in the book shop by selecting the option **"VIEW BOOK."**



SEARCH A BOOK:

Added books can be searched by the costumer that are already present in the book shop by selecting the option "SEARCH BOOK."

A book can be searched by the following procedure:

- It asks for the **valid id of the book** to be searched.
- It then asks the user if it wants to search the full details, book name, author's name, book type, publish date, price, and quantity of the book by selecting the respective point.

```
Enter ur option:
Enter book id to search:
Enter choice you want to search
1-All details
2-Book name only
3-Author name only
4-Book type
5-Publish date only
6-Price only
7-Quantity only
8-Back to book records
Choose option:
                  BOOK NAME
                                                                         PUBLISHED on
                                                                                                     PRICE/BOOK
                                                                                                                       QUANTITY
                  urdu
                                     noreen
                                                       Study
                                                                         03/20/2000
                                                                                                     150
                                                                                                                       47
```

ADD BOOK INTO YOUR CART:

You can add a book into your cart by the following procedure:

- Enter the valid book id. If the invalid id entered it will ask to reenter the id.
- Enter the **quantity of books** you want to add in the cart. (Keeping in view of the total quantity of book present.)

```
Enter ur option:
  BOOK ID
                BOOK NAME
  10
                chem
  987
                titans
  12
                urdu
  20
                PF
  120
                grass
  300
                dracula
  150
                croods
  60
                steve
Enter book id you want to add in cart:
Enter book quantity you want to add in cart: 1
Book added in cart succesfully.
```

NOW THE BOOK HAS SUCCESSFULLY ADDED TO THE CART.

VIEW YOUR CART AND BUY A BOOK:

You can buy a book by the following procedure:

- You can view the cart by selecting the option "VIEW CART".
- Go to the option view your cart.
- Here you can see the books added to your cart.

```
VIEW YOUR CART
                              **********
                              AUTHOR NAME
                                                                                                 QUANTITY
                                                           PUBLISHED on
                                                                                  PRICE/BOOK
                                                           09/20/2020
987
               titans
                              jack
                                            Mystery
                                                                                  1000
                                                                                                 10
                                            Study
                                                                                                 10
10
                                                           03/19/2000
                                                                                  2000
               chem
                              sarim
Total books in cart: 2
Total price of books in cart: 30000
Want to buy any book? (Y/n)
```

- If you want to buy the book you can simply type "y" or "Y" to confirm your order.
- Provide your id to further **proceed your order.**

```
VIEW YOUR CART
BOOK ID
                   BOOK NAME
                                      AUTHOR NAME
                                                        BOOK TYPE
                                                                           PUBLISHED on
                                                                                                        PRICE/BOOK
                                                                                                                           QUANTITY
987
                   titans
                                      jack
                                                        Mystery
                                                                           09/20/2020
                                                                                                                           10
60
                                                                           04/12/2011
                                                                                                        365
Total books in cart: 2
Total price of books in cart: 10365
Want to buy any book? (Y/n)
Enter your UserId to buy book:
Enter Book ID you want to buy from your cart:
987
Enter quantity of book want to buy:
Name of book whose id is 987: titans
Total price of book with quantity 2 is: 2000
Want to buy this book? (Y/n)
You buy the book succesfully and back to cart section.
```

YOU BUY THE BOOK SUCCESSFULLY.

VIEW YOUR DATA:

A Customer can view his data after providing his ID.

You can view his data by the following procedure:

- Go to the option view your data.
- Enter your ID to view data.
- Choose the options from 1-7

YOU WILL SEE ALL THE DETAILS OF YOURSELF.

UPDATE YOUR DATA:

A Customer can update his data after providing his ID.

You can update his data by the following procedure:

- Go to the option update your data.
- Enter your ID to update data.
- Choose the options from 1-5 (Which detail you want to update).

```
Choose option:

2
Enter your UserId to update data:

35
You can update:-
1)Name
2)Gender
3)Phone no.
4)Email
5)Address
4
Enter new gmail id:
mymail@gmail.com
Gmail ID updated.
```

DATA WILL BE UPDATED.

> CART DETAILS:

Following are the functionalities of the cart:

- Add a book.
- Delete a book.
- Buy a book.

ADD A BOOK INTO YOUR CART:

You can add a book into your cart by the following procedure:

- Enter the **valid book id**. If the invalid id entered it will ask to reenter the id.
- Enter the **quantity of books** you want to add in the cart. (Keeping in view of the total quantity of book present.)

```
Enter ur option:
  BOOK ID
                BOOK NAME
  10
                chem
  987
                titans
  12
                urdu
  20
                PF
  120
                grass
  300
                dracula
                croods
  150
                steve
Enter book id you want to add in cart:
Enter book quantity you want to add in cart: 1
Book added in cart succesfully.
```

NOW THE BOOK HAS SUCCESSFULLY ADDED TO THE CART.

DELETE A BOOK FROM THE CART:

Book can be deleted by entering the **id of the book** you want to delete. Note that the book id should be valid.

```
Options
1-View your cart.
2-Add book to cart.
3-Delete book from cart
4-Back to main menu

Enter ur option:
3
Enter book id you want to delete from your cart:
60
Book deleted succesfully from your cart.
```

NOW THE BOOK HAS SUCCESSFULLY DELETED FROM THE CART.

BUY A BOOK:

You can buy a book by the following procedure:

- Go to the option view your cart.
- Here you can see the books added to your cart.
- If you want to buy the book you can simply type "y" or "Y" to confirm your order.
- Customers id is required to further proceed with your order.

```
VIEW YOUR CART
                       **********
BOOK ID
           BOOK NAME
                       AUTHOR NAME BOOK TYPE
                                                                PRICE/BOOK
                                                                            OUANTITY
                                              PUBLISHED on
titans
                                  Mystery
                                               09/20/2020
                       iack
                       walter
                                   Bio
                                               04/12/2011
                                                                 365
           steve
Total books in cart: 2
Total price of books in cart: 10365
Want to buy any book? (Y/n)
Enter your UserId to buy book:
Enter Book ID you want to buy from your cart:
987
Enter quantity of book want to buy:
Name of book whose id is 987: titans
Total price of book with quantity 2 is: 2000 Want to buy this book? (Y/n)
You buy the book succesfully and back to cart section.
```

YOU BUY THE BOOK SUCCESSFULLY.

Thank you