

Test Plan Document for Bookstore:

This is a step by step guide to **bookstore_management_system** Bookstore project. Please follow each step closely.

Step 1:

- Run **bookstore_management_system** project. Upon running the project user is greeted by “Thank you for visiting our Bookstore, please look at our menu below, and let me know how I can assist you.” User then must look at the menu below. I tried explaining output in the first step, but it didn’t work, there fore I will add images.

```
Thank you for visiting our Bookstore, please look at our menu below,
and let me know how I can assisst you.
*****
                MENU
*****
[1]. Add Member.
[2]. Add Stock.
[3]. Buy Product.
[4]. Find Product.
[5]. Find Member.
[0]. Exit Bookstore.
*****
```

Step 2:

- Upon thoroughly reading the menu, user must input a number between 1-5. If user does not enter a number between 1-5, he will be prompted to do so again. The menu displays the following.

```
[1]. Add Member.
[2]. Add Stock.
[3]. Buy Product.
[4]. Find Product.
[5]. Find Member.
[0]. Exit Bookstore.
```

1. If user picks option 1, he will have the have option to add either a Premium Member or a Free Member, followed by this output example. User must only input a number 1 or 2 in order to proceed otherwise user is stuck in a while loop.

Thank you for choosing to add a member.

We offer 2 type of memberships, please select 1 or 2 for your choice.

[1] = Premium Membership

[2] = Free Membership

- After user inputs 1 or 2 he's followed to the next Screen where it will ask for the members First name, and this screen only accepts String type input, therefore no numbers or symbols, only letters. Next, user is required to input a last name, this follows the same criteria as the first name. Then the program will generate a random int Member ID for the user. Then user is required to input their balance, which only accepts double or any number input. However, if user balance is not greater than \$10.0, he will not be able to become a premium member as there is a monthly fee of \$10.0 to become a premium member. Therefore, user is kicked back to the main menu. Else if the user balance is greater than \$10.0, he is added to the Member Array List as a Premium Member. Followed by this Screen output.

You are all set. I have deducted a fee of \$10 for becoming a Premium Member,

Thank you for choosing to shop with us alex!

I will attach a receipt of all the information covered today, have a good day!

First name: alex, Last name: wang, Member ID: 5, Balance: \$40.0,
Payment method: Balance

- I initially had a balance of \$50.0. But if you choose to become a free Member there will be no balance deduction but everything else will be the same. And that concludes Add Member.

```

Thank you for choosing to add a member.
We offer 2 type of memberships, please select 1 or 2 for your chocie.
[1] = Premium Membership
[2] = Free Membership

Enter your choice of number = 1

Thank you for choosing to add a Premium Member.
I'm just going to need some information from you to process this.

What's your first name?
First name: Alexander

What's your last name?
Last name: Tekleab

We will generate a random Customer ID for you.
ID number: 9

What's your balance?
Balance: 100

Thnak you for that, and we will be using your balance
to complete today's transaction.

You are all set. I have deducted a fee of $10 for becoming a Premium Member,
Thank you for choosing to shop with us Alexander!
I will attach a receipt of all the information covered today, have a good day!

First name: Alexander, Last name: Tekleab, Member ID: 9, Balance: $90.0, Payment method: Balance

```

2. If user picks option 2 from the Menu, he will have the option to add to the stock similar to Add member, there will be a screen which accepts an input between 1-3 to either add Books, CDs, or DVDs. I will attach an output example at the end, I will only cover what user must input for this method. User must only input a number between 1-3 to move to the next screen. If user inputs 1, he will be prompted to add a book but will be asked to input information about the book. For example, he will be required to input the book's name, this only accepts String, so only letters. It will automatically generate a Product ID, so user is not required to do anything. Next, he will be required to input a book price, therefore only number input. Next, he will be prompted to enter book ISBN, only accepts String. Then book will be added to the Product Array List. Similar to book, user can choose to add CDs option 2, it will ask for the same information until ISBN, since it's a CD, it will ask you to input an Album name, this only accepts String. Next it will ask to input Artist name, then your CD is created and is added to the product Array List. Lastly, you can add DVDs option 3, this again similar to Book and CD, it will ask you to input the same thing until ISBN, since it's DVD, it will ask you to input a movie title, this only accepts String. Next it will ask you to input a Director name, this only accepts String, and finally it will ask you to input a Production company, this also takes only a string.

Thank you for choosing to add a book to the stock.
I'm just going to need some information from you to process this.

What's the book name?
Book name: Shogun

We will generate a random Product ID for you.
Product ID: 7

What's the price of the Book?
Book Price: 5

What's the International Standard Book Number?
Book ISBN: dkfjsdf

You are all set. Thank you for stocking Shogun to our inventory!
I will attach a receipt of the Book stocked today, have a good day!

Product Name: Shogun, Product ID: 7, Price: \$5.0, ISBN: dkfjsdf

3. If user picks option 3 from the Menu, he will have the option to buy either Books, CDs, or DVDs. User can pick a number between 1-3, input only accepts number. If user picks option 1, he will be able to buy a Book. User can pick a number between 1-3 based on the menu of the books. Based on user input he will be able to buy the book of his choice, again between 1-3 only number input. The other option is for user to buy CDs option 2. User is then prompted to another screen where he must choose from a list of CDs, input only accepts a number between 1-3 similar to buying a book. User then buys CD based on his input 1-3. Lastly, user has the option to buy DVDs option 3. If user inputs option 3, he will be prompted to the DVDs menu where he will be required to input a number between 1-3 in order to buy a DVD based on the DVD menu. User then buys DVD based on their input 1-3.

Thank you for choosing to buy a Book. Look at the Book menu below.
You must enter a number choice between 1-3 for the Book ID to purchase a book.

BOOK MENU

[1]. Stoner
[2]. Shogun
[3]. Children of Time

What's the Book ID?

Book ID: 2

Thank you for deciding to buy Shogun.

I will print the receipt below. I have also deducted \$5.0 from your balance.

Product Name: Shogun, Prodcut ID: 2, Price: \$5.0, ISBN: 939-3-17-149410-0

Thank you for shopping with us, and have a good day.

4. If user picks option 4 from the Menu, he will have the option to find a product DVD from the Array List. User must enter a DVD Product ID as an input between 1-3 as requested, only numbers. Then the program will run and print the DVD product found in the Array List.

Thank you for choosing Find Product.
We will be trying to locate some of our DVD products.

Enter a DVD ID between 1-3.
DVD ID: 1

Product Name: Blu-ray Disc, Prodcut ID: 1, Price: \$10.0, Movie title: Holes, Director name: Andrew Davis, Production company: Walt

You have located the DVD Movie Holes, greate job!

5. If user inputs option 5 from the Menu, he will have the option to find a Premium Member from list. Upon clicking option 5 user then must input a Member ID a number between 1-3, only number. The program then executes and finds the Premium Member within the Array List while also printing him.

Thank you for choosing Find Member.
We will be trying to locate some of our Premium Member.

Enter a Member ID between 1-3.
Member ID: 1

First name: Alexander, Last name: Wang, Member ID: 1, Balance: \$100.0, Payment method: Balance

You have located Alexander the Premium Member, greate job!

0. If user picks option 0 from the Menu, the program ends, and the Bookstore closes.

Please select a number of your choice between 0-5.

Enter your choice of number = 0

Thank you for visiting our Bookstore! Have a good day!