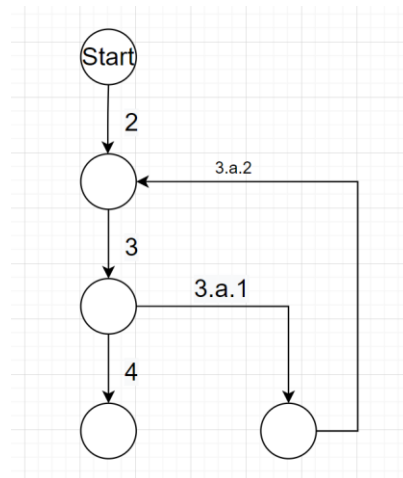# User Case 1: Administrator sign in

1) Graph:



2) The use case includes two scenarios. Both are needed for branch coverage.

| Id | Events | Description |
|---|---|---|
| 1.1 | 1-2-3-4 | Administrator entered right credentials |
| 1.2 | 1-2-3-3.a.1-3.a.2 | Entered invalid credentials |

3) Abstract Test Cases

Test Case: TC 1.1

Goal: Test the main course of events – an authorized log in

Scenario Reference: 1.1

Setup: Bookstore is ON, administrator username = admin, password = password

| | External Event | Expected Reaction | Comments |
|---|---|---|---|
| 1 | Enter user username=admin, password=password | Bookstore is logged in to admin page and the user is able to do admin operations. | Username and password entered when the system is prompting for login |

Pass Criteria: administrator is logged in; bookstore is showing admin page.

Test Case: TC 1.2

Goal: Test an unauthorized attempt to log in
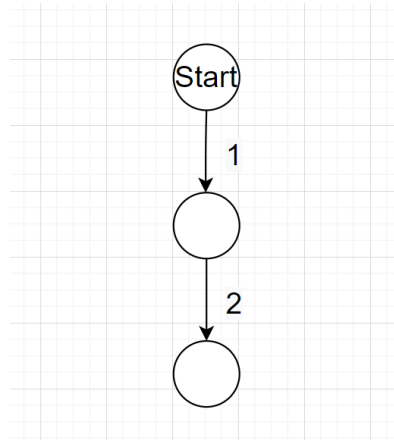
Scenario Reference: 1.2

Setup: Bookstore is ON, administrator username = admin, password = password

| | External Event | Expected Reaction | Comments |
|---|---|---|---|
| 1 | Enter user username=admin, password=abcdef | Bookstore shows error message | Username and password entered when the system is prompting for login |

Pass Criteria: administrator is not logged in; bookstore is showing error message.

# User Case 2: Administrator Sign out

1) Graph:



2) The use case includes one scenario.

| Id | Events | Description |
|---|---|---|
| 2.1 | 1-2 | Administrators click on log out button |

3) Abstract Test Cases

Test Case: TC 2.1

Goal: Test the main course of events – log out
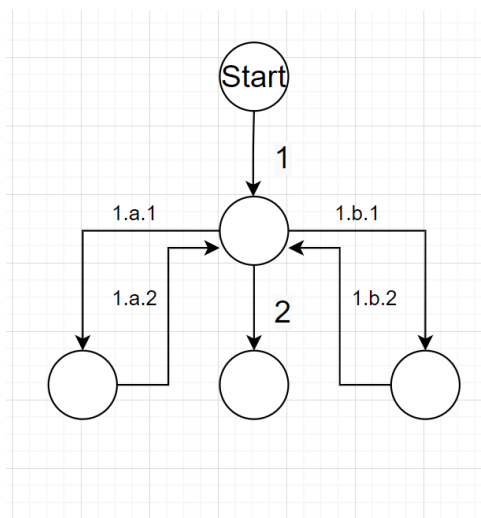
Scenario Reference: 1.1

Setup: Bookstore is ON, the user is logged in as administrator.

| | External Event | Expected Reaction | Comments |
|---|---|---|---|
| 1 | User clicked on the log out button | Bookstore shows log out message | |

Pass Criteria: administrator is logged out; bookstore is showing log in page with log out message.

# User Case 3: Add book

1) Graph:

2) The use case includes three scenarios all are needed for branch coverage.

| Id | Events | Description |
|---|---|---|
| 3.1 | 1-2 | Administrator is logged in and added a book with right and no missing information |
| 3.2 | 1-1.a.1-1.a.2 | The book being added is with wrong or missing information |
| 3.3 | 1-1.b.1-1.b.2 | The book id entered is duplicated. |

3) Abstract Test Cases

Test Case: TC 3.1

Goal: Test the main course of events – add book

Scenario Reference: 3.1

Setup: Bookstore is ON, the user is logged in as administrator.

| | External Event | Expected Reaction | Comments |
|---|---|---|---|
| 1 | The administrator enters all right book information and clicks add button | Bookstore shows successful added message | |

Pass Criteria: administrator successfully added the book; bookstore is showing book being added message.

Test Case: TC 3.2

Goal: Test the main course of events – add book

Scenario Reference: 3.2

Setup: Bookstore is ON, the user is logged in as administrator.

| | External Event | Expected Reaction | Comments |
|---|---|---|---|
| 1 | The administrator enters wrong book information and clicks add button | Bookstore shows failed message | |

Pass Criteria: administrator fail to add the book; bookstore is showing book is not added message and ask administrator to edit book information.

Test Case: TC 3.2

Goal: Test the main course of events – add book

Scenario Reference: 3.3

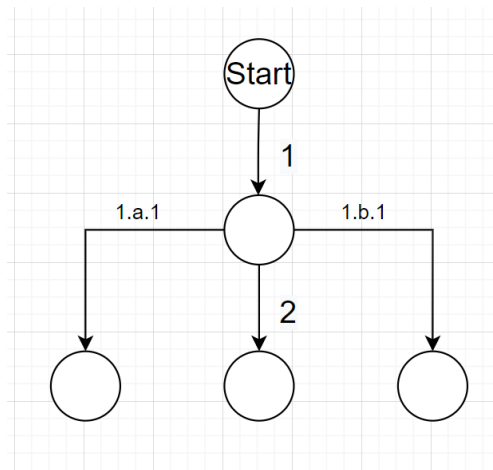Setup: Bookstore is ON, the user is logged in as administrator.

| | External Event | Expected Reaction | Comments |
|---|---|---|---|
| 1 | The administrator enters duplicated book id and clicks | Bookstore shows the id is already exist. | |

| | add button | | |
|---|---|---|---|

Pass Criteria: administrator fail to add the book; bookstore is showing book id is exist message and ask administrator to edit book information.

# User Case 4: Browse Catalogue

1) Graph:



2)The use case includes three scenarios all are needed for branch coverage.

| Id | Events | Description |
|---|---|---|
| 4.1 | 1-2 | The user enters a specify category and click on search button    then list of books showed up |
| 4.2 | 1-1.a.1 | The user does not enter a specify category and click on search button    then list of all books showed up |
| 4.3 | 1-1.b.1 | The user enters a specify category and click on search button, but no book is found |

3)Abstract Test Cases

Test Case: TC 4.1

Goal: Test the main course of events – browse catalogue

Scenario Reference: 4.1

Setup: Bookstore is ON

| | External Event | Expected Reaction | Comments |
|---|---|---|---|
| 1 | The user enters a certain category and clicks on search button | Bookstore shows all books belong to the category that user entered | |

Pass Criteria: bookstore is showing all the books satisfying the selected category

Test Case: TC 4.2
Goal: Test the main course of events – browse catalogue
Scenario Reference: 4.2
Setup: Bookstore is ON

| | External Event | Expected Reaction | Comments |
|---|---|---|---|
| 1 | The user does not enter a certain category and clicks on search button | Bookstore shows all books | |

Pass Criteria: bookstore is showing all the books.

Test Case: TC 4.3
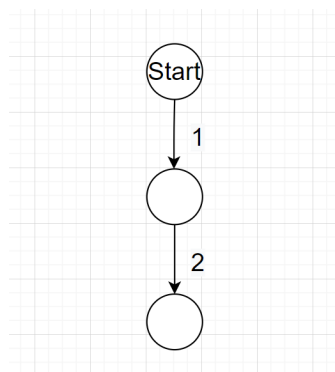Goal: Test the main course of events – browse catalogue
Scenario Reference: 4.3
Setup: Bookstore is ON

| | External Event | Expected Reaction | Comments |
|---|---|---|---|
| 1 | The user enters a specify category with no book satisfied and click on search button | Bookstore shows no book found message | |

Pass Criteria: bookstore is displaying no book found message.

## User Case 5: Remove Book

1) Graph:

2) The use case includes one scenario.

| Id | Events | Description |
|---|---|---|
| 5.1 | 1-2 | The administrator clicks on delete button of a book. |

3) Abstract Test Cases

Test Case: TC 5.1

Goal: Test the main course of events – remove books.
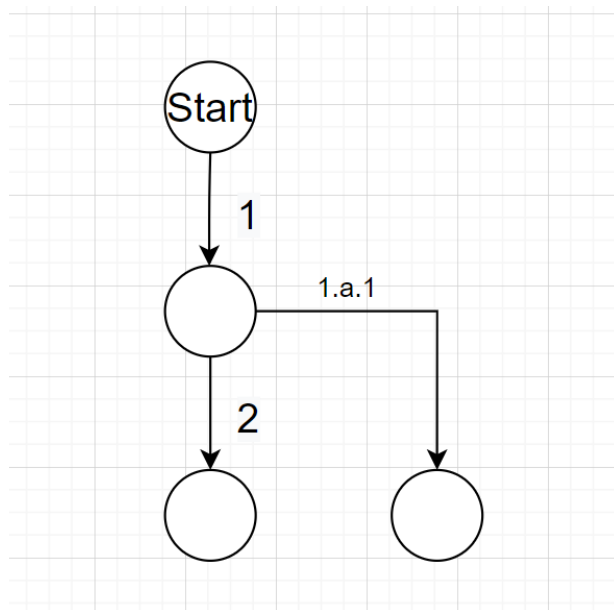
Scenario Reference: 5.1

Setup: Bookstore is ON, the user is logged in as administrator.

| | External Event | Expected Reaction | Comments |
|---|---|---|---|
| 1 | The administrator clicks on delete button of a book. | Bookstore shows the list of books without the removed book | |

Pass Criteria: bookstore is showing a list of books without the removed book.

# User Case 6: Order Book

1) Graph:



2) The use case includes two scenarios both are need for branch coverage.

| Id | Events | Description |
|---|---|---|
| 6.1 | 1-2 | The customer selects a book and adds to his order. |
| 6.2 | 1-1.a.1 | The customer added a duplicated order then the bookstore increase the number of quantity of one. |

3) Abstract Test Cases

Test Case: TC 6.1

Goal: Test the main course of events – order books.
Scenario Reference: 6.1
Setup: Bookstore is ON. The book list page is showing.

|   | External Event | Expected Reaction | Comments |
|---|---|---|---|
| 1 | The user selects books click on added button | Bookstore adds the book to the order | |

Pass Criteria: bookstore adds the selected book in the order.

Test Case: TC 6.2
Goal: Test the main course of events – order books.
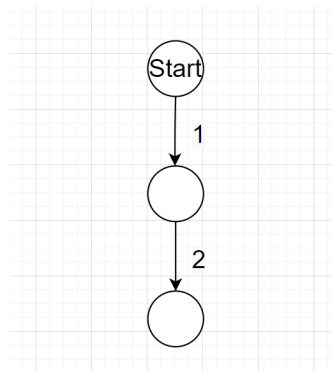Scenario Reference: 6.2
Setup: Bookstore is ON. The book list page is showing.

|   | External Event | Expected Reaction | Comments |
|---|---|---|---|
| 1 | The user selects books click on added button | Bookstore increments the number of the book by one in the order | |

Pass Criteria: bookstore adds 1 more copies of the selected book in the order.

# User Case 7: View Books Order

1) Graph:



2) The use case includes one scenario.

| Id | Events | Description |
|---|---|---|
| 7.1 | 1-2 | The customer clicks on the cart button after adding books into his order. |

3) Abstract Test Cases

Test Case: TC 7.1
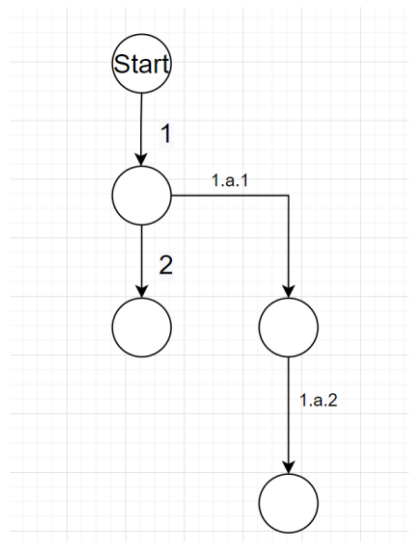Goal: Test the main course of events – view the order

Scenario Reference: 7.1
Setup: Bookstore is ON, the bookstore is in catalog page

|   | External Event | Expected Reaction | Comments |
|---|---|---|---|
| 1 | The user clicks on the cart button | Bookstore shows the list of books in his order | |

Pass Criteria: bookstore is showing a list of books in customer's order.


# User Case 8: Update Book Order

1) Graph:



2) The use case includes one scenario.

| Id | Events | Description |
|---|---|---|
| 8.1 | 1-2 | The customer edits the number of copies of the book and the bookstore updates the total cost |
| 8.2 | 1-1.a.1-1.a.2 | The number customer entered is less or equal to 0. The bookstore updates the total cost and removes the book. |

3) Abstract Test Cases


Test Case: TC 8.1
Goal: Test the main course of events – update book order
Scenario Reference: 8.1
Setup: Bookstore is ON, the bookstore is in order page

| | External Event | Expected Reaction | Comments |
|---|---|---|---|
| 1 | The user edits the number of books | Bookstore updates the total cost | |

Pass Criteria: bookstore is showing new total cost of the order.

Test Case: TC 8.2
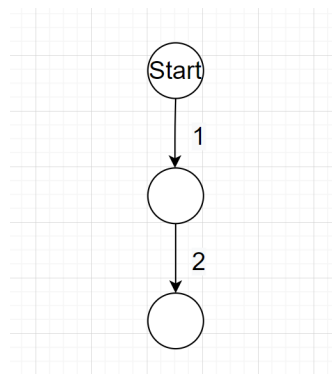Goal: Test the main course of events – update book order
Scenario Reference: 8.2
Setup: Bookstore is ON, the bookstore is in order page

| | External Event | Expected Reaction | Comments |
|---|---|---|---|
| 1 | The user edits the number of books less to 0 | Bookstore updates the total cost to 0 and remove the book from the order | |

Pass Criteria: bookstore is showing new total cost of 0 and remove the book of the order.

# User Case 9: Check out

1) Graph:



2) The use case includes one scenario.

| Id | Events | Description |
|---|---|---|
| 9.1 | 1-2 | The customer clicks on the checkout button after adding books into his order. |

3) Abstract Test Cases

Test Case: TC 9.1
Goal: Test the main course of events – check out
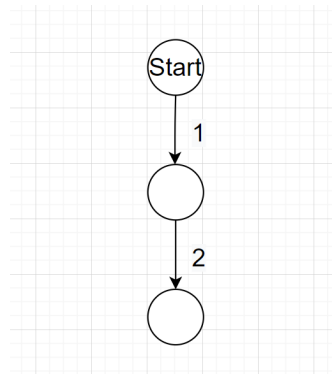Scenario Reference: 9.1
Setup: Bookstore is ON, the bookstore is in order page

| | External Event | Expected Reaction | Comments |
|---|---|---|---|
| 1 | The user clicks on the checkout button | Bookstore process the order and shows the payment information | |

Pass Criteria: bookstore is showing the payment information of the customer's order.

# User Case 10: Select language

1) Graph:



2) The use case includes one scenario.

| Id | Events | Description |
|---|---|---|
| 10.1 | 1-2 | The customer selects the language then bookstore display in the selected language |

3) Abstract Test Cases

Test Case: TC10.1

Goal: Test the main course of events – change the language

Scenario Reference: 10.1

Setup: Bookstore is ON

| | External Event | Expected Reaction | Comments |
|---|---|---|---|
| 1 | The user selects language | Bookstore change the language of the application to the selected language. | |

Pass Criteria: bookstore is in selected language.