Assignment #3

Question 1: Positive and Negative Test Situations

- **FR1: Addition of Books to Catalogue**

  - Positive: Add a book with all mandatory fields correctly filled.
  - Negative: Try to add a book with a missing mandatory field (e.g., no book title).

- **FR2: Browsing Books Catalogue**

  - Positive: Search for books in a specific category and verify the results.
  - Negative: Search with an invalid category and verify that no books are returned.

- **FR3: Adding Books to Order**

  - Positive: Add a book from the catalogue to the order.
  - Negative: Try to add a book to the order that doesn't exist in the catalogue.

- **FR4: Viewing Books Order**

  - Positive: View the order details with books added.
  - Negative: View the order when it is empty.

- **FR5: Updating Book Order**

  - Positive: Update the number of copies of a book in the order.
  - Negative: Try to update the number of copies to a negative number.

- **FR6: Checkout Process**

  - Positive: Checkout with a valid order.
  - Negative: Checkout with an empty order.

- **FR7: Removal of Books from Catalogue**

  - Positive: Remove a book that exists in the catalogue.
  - Negative: Try to remove a book that does not exist.

- **FR8: Administrator Authentication**

- Positive: Admin logs in with correct credentials.
- Negative: Admin logs in with incorrect credentials.

Question 2: Test Cases Based on Use Cases

Use Case 1: Administrator Sign In

Scenario Graph:

- Main Path: Administrator navigates to the admin page, enters credentials, and logs in.

- Alternative Path: Administrator enters wrong credentials, error message is shown, and they are prompted to re-enter credentials.

Set of Scenarios:

1. **Scenario 1**: Administrator enters correct credentials.

2. **Scenario 2**: Administrator enters incorrect credentials.

Abstract Test Cases:

- **Test Case 1**:

    o **Input**: Correct username and password.

    o **Expected Outcome**: Admin is logged in and admin operations page is displayed.

- **Test Case 2**:

    o **Input**: Incorrect username and/or password.

    o **Expected Outcome**: Error message "Invalid credentials" is displayed and login prompt is shown again.

Use Case 2: Administrator Sign Out

Scenario Graph:

- Main Path: Administrator selects to sign out.

Set of Scenarios:

1. **Scenario 1**: Administrator signs out.

Abstract Test Cases:

- **Test Case 3**:
    - o **Input**: Admin clicks the sign out button.
    - o **Expected Outcome**: Admin is logged out and login page is displayed.

Use Case 3: Add Book

Scenario Graph:

- Main Path: Admin enters all book information correctly and submits.
- Alternative Paths: Admin enters incomplete or duplicate book information, receives error messages.

Set of Scenarios:

1. **Scenario 1**: Admin enters all mandatory book details correctly.
2. **Scenario 2**: Admin enters incomplete book details.
3. **Scenario 3**: Admin enters a duplicate book id.

Abstract Test Cases:

- **Test Case 4**:
    - o **Input**: Complete and correct book details.
    - o **Expected Outcome**: Book is added to the catalogue, and confirmation message is displayed.
- **Test Case 5**:
    - o **Input**: Incomplete book details (e.g., missing title).
    - o **Expected Outcome**: Error message "Title is mandatory" is displayed.
- **Test Case 6**:
    - o **Input**: Duplicate book id.
    - o **Expected Outcome**: Error message "Duplicate book id" is displayed.

Use Case 4: Browse Catalogue

Scenario Graph:

- Main Path: User specifies a category and views books.
- Alternative Paths: User does not specify a category, or no books are found.

Set of Scenarios:

1. **Scenario 1**: User specifies a valid category.

2. **Scenario 2**: User specifies no category.

3. **Scenario 3**: No books found for specified category.

Abstract Test Cases:

- **Test Case 7**:

  o **Input**: Valid category.

  o **Expected Outcome**: List of books in the specified category is displayed.

- **Test Case 8**:

  o **Input**: No category specified.

  o **Expected Outcome**: List of all books is displayed.

- **Test Case 9**:

  o **Input**: Invalid or empty category.

  o **Expected Outcome**: Message "No books found" is displayed.

Use Case 5: Remove Book

Scenario Graph:

- Main Path: Admin selects a book and removes it from the catalogue.

Set of Scenarios:

1. **Scenario 1**: Admin removes a book that exists in the catalogue.

Abstract Test Cases:

- **Test Case 10**:

  o **Input**: Select existing book and remove.

  o **Expected Outcome**: Book is removed from the catalogue, and confirmation message is displayed.

Use Case 6: Order Book

Scenario Graph:

- Main Path: Customer adds a book to their order.

- Alternative Paths: Book already in the order.

Set of Scenarios:

1. **Scenario 1**: Customer adds a new book to the order.

2. **Scenario 2**: Customer adds a book that is already in the order.

Abstract Test Cases:

- **Test Case 11**:

    - **Input**: Select book and add to order.

    - **Expected Outcome**: Book is added to order, and order summary is updated.

- **Test Case 12**:

    - **Input**: Select book already in order and add again.

    - **Expected Outcome**: Number of copies of the book in the order is incremented.

Use Case 7: View Books Order

Scenario Graph:

- Main Path: Customer views their order.

Set of Scenarios:

1. **Scenario 1**: Customer views order with books added.

Abstract Test Cases:

- **Test Case 13**:

    - **Input**: View order.

    - **Expected Outcome**: Order summary with book details is displayed.

Use Case 8: Update Books Order

Scenario Graph:

- Main Path: Customer updates the number of copies of a book in their order.

- Alternative Paths: Number of copies is set to 0 or negative.

Set of Scenarios:

1. **Scenario 1**: Customer updates the number of copies to a positive number.

2. **Scenario 2**: Customer updates the number of copies to 0 or negative.

Abstract Test Cases:

- **Test Case 14**:

    - **Input**: Update number of copies to a positive number.

    - **Expected Outcome**: Order summary is updated with the new number of copies.

- **Test Case 15**:

    - **Input**: Update number of copies to 0 or negative.

    - **Expected Outcome**: Book is removed from the order, and order summary is updated.

Use Case 9: Check Out

Scenario Graph:

- Main Path: Customer checks out their order.

Set of Scenarios:

1. **Scenario 1**: Customer completes checkout.

Abstract Test Cases:

- **Test Case 16**:

    - **Input**: Select checkout.

    - **Expected Outcome**: Order is processed, and payment information is displayed.

Use Case 10: Select Language

Scenario Graph:

- Main Path: User selects a language.

Set of Scenarios:

1. **Scenario 1**: User selects a language.

Abstract Test Cases:

- **Test Case 17**:

    o **Input**: Select language.

    o **Expected Outcome**: Interface is updated to the selected language.

Question : implementation

✓ makingSureJUnitConfigured*

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http://localhost:8080   ▾

Command	Target	Value

Command   [▾] [//] [⬀]

Target   [   ] [▣] [🔍]

Value   [   ]

Description [   ]

Runs: 1   Failures: 0

| Log | Reference | ⊘
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Running 'Untitled'   22:24:37

'Untitled' completed successfully   22:24:37

Running 'makingSureJUnitConfigured'   22:25:44

'makingSureJUnitConfigured' completed successfully 22:25:45

✓ testAdministratorSignInNegative*

http://localhost:8080

	Command	Target	Value
1	✓ *open*	/admin	
2	✓ *set window size*	783x816	
3	✓ *click*	id=addBook-category	
4	✓ *type*	id=addBook-category	mathematic
5	✓ *click*	css=tr:nth-child(3) > td:nth-child(2)	
6	✓ *click*	id=addBook-id	
7	✓ *type*	id=addBook-id	300
8	✓ *click*	id=searchBtn	

Command

Target

Value

Description

Runs: 1   Failures: 0

Log	Reference

3. click on id=addBook-category OK   22:34:56
4. type on id=addBook-category with value mathematic OK   22:34:56
5. click on css=tr:nth-child(3) > td:nth-child(2) OK   22:34:56
6. click on id=addBook-id OK   22:34:56
7. type on id=addBook-id with value 300 OK   22:34:56
8. click on id=searchBtn OK   22:34:57
'testAdministratorSignInNegative' completed successfully   22:34:57