Test Plan and Test Cases for BookCart Application

1. Test Plan

Application: BookCart (https://bookcart.azurewebsites.net/)
Objective: Ensure the core functionalities of the BookCart e-commerce app work as expected.

Scope:
- User Authentication (Login/Sign Up)
- Book Search
- Filtering and Viewing Books
- Add to Cart
- Checkout Process
- Logout

Testing Types:
- Functional Testing
- Smoke Testing
- Positive and Negative Test Cases
- Automation Testing (Smoke Test)

2. Test Cases

Login

Test Case ID	Description	Expected Result	Type
TC01	Login with valid credentials	User successfully logs in	Positive, Smoke
TC02	Login with invalid password	Login fails with error message	Negative
TC03	Login with empty fields	Login fails with validation message	Negative

Registration

Test Case ID	Description	Expected Result	Type
TC04	Register with valid info	Account is created	Positive, Smoke
TC05	Passwords do not match	Validation error is shown	Negative
TC06	Invalid email format	Validation error is shown	Negative

Search

Test Case ID	Description	Expected Result	Type
TC07	Search for existing book	Results are shown	Positive
TC08	Search for non-existent book	No results	Negative
TC09	Empty search and submit	No action	Negative

Add to Cart

Test Case ID	Description	Expected Result	Type
TC10	Add book to cart (logged in)	Book appears in cart	Positive, Smoke
TC11	Add book to cart (not logged in)	Redirect to login if tried to go on checkout	Negative

Checkout

Test Case ID	Description	Expected Result	Type
TC12	Checkout with items in cart	Successful checkout	Positive, Smoke
TC13	Checkout with empty cart	No checkout option	Negative

Filter

Test Case ID	Description	Expected Result	Type
TC14	Filter books by price	Books are filtered by price from given rank	Positive

Wishlist

Test Case ID	Description	Expected Result	Type
TC15	User can mark favorite books	User can open wishlist and see all favorite books	Positive

Book details

Test Case ID	Description	Expected Result	Type
TC16	User can click on the book and see details about it	User is redirected to book details and can see more about the title, author, category and price. Also, this page offers similar books to the chosen one	Positive

My orders

Test Case ID	Description	Expected Result	Type
TC17	User can see his orders	User can open section "My orders" and see all his/hers ordered books, table also contain date of order and final price	Positive

Logout

Test Case ID	Description	Expected Result	Type
TC18	User logs out	User is redirected to login page	Positive, Smoke

BUGS AND IMPROVEMENTS

1. When attempting to log in with incorrect credentials, the user should receive a clear warning or message indicating the reason for the failed login (e.g., "Invalid username or password").

2. During registration, if the user does not select a gender, the registration should not proceed. However, there is currently no feedback provided to the user. A message should be displayed indicating that gender selection is required.

3. The "Register" and "Login" buttons could be disabled (grayed out) until all mandatory fields are correctly filled in.