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|  | 2021-22 |
| **School of Computing, Engineering and Mathematics** |
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|  | **5001CEM**  **Software Engineering**  **Test Regime Template** |
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**Test Regime**

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**2 Project**

BookShop consists of an online app for a company selling books that offer registration, login, homepage with a shopping cart and checkout with payment included for the customers. The app also has a version for the administrators to control the quantity of books in stock and to add new books. The checkout is available for every user. The app is done in Flask, SQL, html and css and (bootstrap) with no real payment and no advanced functionalities but that fit the requirements. Although the fact security is not a priority in this project, there are still some functions to reinforce that (namely the one to encode the password and the one that gets the book’s values directly from the database).

**3 Test scope**

Functional tests for each of the major system components:

* Register
* Login
* Homepage
* Stock Level
* Add Stock
* Shopping Cart
* Checkout
* Payment

**3.1 out of scope**

* Security
* UX

**4 Test regime**

The tests should take 60 minutes to be done.

4.1 Registration

Test 1: Use an existing username

Test 2: Submit without filling the username or password.

4.2 Login

Test 1: login with a username that is not in the database (that doesn’t exist yet)

Test 2: login with a wrong password

Test 3: login withot filling one of the fields.

Test 4: login with different kinds of users (admin and customer1)

4.3 Homepage - Customer

.1 Correct books displayed

Test 1: inspect the books with positive quantity in the database records and cross these with the displayed ones. These should match

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes / No | Fail | Yes / No | Comments |  |

Test 2: delete or set a different quantity of some book in the database and check if after that the changed book is not displayed

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes / No | Fail | Yes / No | Comments |  |

.2 Books are correctly displayed

Test 1: ensure that images are correctly resized and that the titles correspond with the images.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes / No | Fail | Yes / No | Comments |  |

.3 Books can be added to the shopping cart

Test 1: add a book.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes / No | Fail | Yes / No | Comments |  |

.4 Correct number of books and total price with the shopping cart icon

Test 1: add some books into the shopping cart. The number of books and total price should change according to that.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes / No | Fail | Yes / No | Comments |  |

.5 Logout

Test 1: press the logout button on the top left corner

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes / No | Fail | Yes / No | Comments |  |

4.4 Shopping cart

.1 It is shown when pressing the shopping cart icon

Test 1: press the shopping cart icon

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes / No | Fail | Yes / No | Comments |  |

.2 Book are correctly shown (it includes having a thumbnail picture, the book’s name, the unit price and the quantity selected)

Test 1: ensure that the books information is correct

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes / No | Fail | Yes / No | Comments |  |

.3 Books can be added and removed through the corresponding buttons

Test 1: Add book

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes / No | Fail | Yes / No | Comments |  |

Test 2: Remove book

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes / No | Fail | Yes / No | Comments |  |

.4 The shopping cart can be deleted

Test 3: Delete the shopping cart

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes / No | Fail | Yes / No | Comments |  |

.5 Books’ prices and total price are correctly displayed

Test 1: Amounts should agree with the database

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes / No | Fail | Yes / No | Comments |  |

4.5 Checkout

.1 Check the if the books quantity in stock is enough

Test 1: decrease the quantity of some book in the cart so it’s lower then the number of that book in the cart. Try to checkout, the quantity of that book should change accordling to that

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes / No | Fail | Yes / No | Comments |  |

.2 Payment

Test 1: fill the payment form with acceptable details; payment successful screen will display

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes / No | Fail | Yes / No | Comments |  |

.3 The quantity of books bought is correctly updated in the database

Test 1: inspect in the database if the bought books quantity is correct after the payment

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes / No | Fail | Yes / No | Comments |  |

4.6 Homepage - Admin

.1 Correct books displayed

Test 1: inspect the books with positive quantity in the database records and cross these with the displayed ones. These should match

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes / No | Fail | Yes / No | Comments |  |

4.7 Stock level

.1 Correct books displayed

Test 1: book information displayed and database records should match

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes / No | Fail | Yes / No | Comments |  |

.2 Books quantity can be changed

Test 1: check if the wanted quantity form works

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes / No | Fail | Yes / No | Comments |  |

.3 Books can be deleted

Test 1: delete one of the books

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes / No | Fail | Yes / No | Comments |  |

4.8 Add Stock

.1 Add book form

Test 1: ensure it requires all the neccesary informations to add a new book into the database

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes / No | Fail | Yes / No | Comments |  |

.2 Adding a book that already exists in the database

Test 1: fill the form with a book from the stock level. A message error will be displayed

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes / No | Fail | Yes / No | Comments |  |