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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**

**1 Developer name / SID : 9764659**

**2 Project**

A bookshop application with registration and login, shopfront, shopping cart, admin, checkout and dummy payment.

Customers can purchase books and admin can add more books to the stock.

The application has limited data, and no real payment facility. Security and UX are not a focus.

**3 Test scope**

Basic functional tests for each of the seven major system components:

* Home page
* Registration
* Login
* Shopfront (which is the main page for books)
* Adding to and removing from cart
* Admin
* Checkout

3.1 out of scope

The following will not be tested:

* Security
* UX

**4 Test time**

The total set of tests should take approximately fifty minutes.

**5 Test regime**

# here we define the set of tests

# the tester should be provided a means of reporting findings simply and effectively

# the following are examples only

5.1 Home (3 mins)

.1 Shows home page

Test 1: The default URL takes a user to the home page

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes | Fail | No | Comments | Home page is shown to all users. |

5.2 Registration (7 mins)

1. Allows registration

Test 1: The form accepts user input, the password input is hidden

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes | Fail | No | Comments | The register button takes the user to the registration page. |

1. Register a new user

Test 1: The database accepts the user data

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes | Fail | No | Comments | No error and redirects to login page. |

1. Duplicate user data

Test 1: The database shows error for existing user data

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | No | Fail | Yes | Comments | No error is shown and continues to login page as usual. |

5.3 Login (10 mins)

.1 Allows login

Test 1: The form accepts input for username and password

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes | Fail | No | Comments | A user can use the login button to go to the login page if already registered with the database. |

.2 Use user data to do the login

Test 1: A registered user can login

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes | Fail | No | Comments | No error and redirects to main page for books. |

.3 Login with incorrect password

Test 1: Can’t login with incorrect password

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes | Fail | No | Comments | Redirects to home page. |

.4 Login with no existing user

Test 1: A user can’t login without being registered

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes | Fail | No | Comments | Redirects to home page. |

.5 Login with admin

Test 1: Logs the user into the admin account

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes | Fail | No | Comments | Admin account is redirected to the admin page. |

5.4 Shopfront (15 mins)

.1 System deals with n-sized data

Test 1: Inspect number of database records and cross reference to display. These should match

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes | Fail | No | Comments | Shows the same number of books for the same number of rows in the books tables in database. |

Test 2: Use alternative database with expanded records and repeat Test 1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes | Fail | No | Comments | Both number of records match. |

Test 3: Manually add new data to the database and repeat Test 1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes | Fail | No | Comments | Shows the proper amount of books. |

.2 Images are correctly displayed

Test 1: Ensure that images are correctly resized and fit bounding box

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

.3 Currencies are correctly displayed

Test 1: interface should display correct symbol for currency ($, £ etc.)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes | Fail | No | Comments | Shows the sterling(£) currency as the prices are in GBP. |

.4 Prices are correctly displayed

Test 1: Amounts should agree with database and be formatted in the same way (2 decimal points)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes | Fail | No | Comments | The amounts agree with database. |

5.5 Bookshop Cart (5 mins)

.1 Books can be added

Test 1: Add item

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes | Fail | No | Comments | Add to cart button adds the selected book to the cart. |

.2 Cart system with remove and empty

Test 1: Show cart items

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes | Fail | No | Comments | The added books are shown in the cart section. |

Test 2: Shows the correct data

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes | Fail | No | Comments | Shows the correct price and quantity for specified books. |

Test 3: Remove item from the cart

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes | Fail | No | Comments | Removes the specific book from cart. |

Test 4: Removes all items from cart

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes | Fail | No | Comments | Empty cart button removes all items from the cart and redirects to main page for books. |

5.6 Admin (7 mins)

.1 Shows the admin specific page

Test 1: Pay for items in basket; payment accept or cancel screen displays

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes | Fail | No | Comments | Shows the admin page if the user is admin. |

.2 Admin can see the stock page

Test 1: Correct amount of information is displayed

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes | Fail | No | Comments | The stock button shows the current status of the books in stock. |

Test 2: Every item in stock page requires ISBN

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes | Fail | No | Comments | ISBN is the primary key. |

.3 Admin can add new books to the existing stock

Test 1: A form asking for data for the new book

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes | Fail | No | Comments | Can input data for a new book. |

Test 2: Accepts image as input

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes | Fail | No | Comments | Takes image as input. |

Test 3: The data is added to the database and shows in the stock page

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | No | Fail | Yes | Comments | Bad gateway. The new data is not added to the database and does not show in the stocks page. Need to adjust the parameters and form input type. |

Test 4: Manually add books

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes | Fail | No | Comments | Can add books manually to the database which shows in the stock page. |

5.7 Checkout (3 mins)

.1 Takes the cart items for checkout and shows proper pricing

Test 1: The quantity and price for the number of amount is shown correct

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes | Fail | No | Comments | Displays the selected books with their quantity and price. |

Test 2: Calculates posting fee

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes | Fail | No | Comments | Calculates the right amount of postage-cost for each book. |

Test 3: Total price includes the postage-cost

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes | Fail | No | Comments | The final price is calculated properly. |

.2 Payment is accepted

Test 1: Pay for items in basket; payment accept or cancel screen displays

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pass | Yes | Fail | No | Comments | Shows the dummy payment. |