****Project Description:****

****Book ordering System** is a web based project which is developed with php, HTML-CSS, MySQL. There are 2 types of sign in. Customer and admin. Customer can sign in after performing sign up process successfully. Customer can choose book type according to his choice!.  
After choosing option, several books with name, description and price are displayed. Customer can choose book number and add to cart.  
After completing adding I cart, he can confirm order and checkout giving his credentials.**

****Testing Approach:****

* **Functional, Non Functional testing for Login Page**
* Functional Testing for Signup,Product Details,Order,Post Purchase, Cart page
* **Equivalence tesing for Signup page.**
* **Boundary value testing for Signup page.**

****Testing Login page with Functional and non-Functional test:****

#### Functional Test Cases:

| **Sr. No.** | **Functional Test Cases** | **Type- Negative/ Positive Test Case** |
| --- | --- | --- |
| 1 | Verify if a user will be able to login with a valid username and valid password. | Positive |
| 2 | Verify if a user cannot login with a valid username and an invalid password. | Positive |
| 3 | Verify the login page for both, when the field is blank and Submit button is clicked. | Positive |
| 4 | Verify the ‘Forgot Password’ functionality. | Negative |
| 5 | Verify the messages for invalid login. | Positive |
| 6 | Verify the ‘Remember Me’ functionality. | Negative |
| 7 | Verify if the data in password field is either visible as asterisk or bullet signs. | Negative |
| 8 | Other Test Cases | |

#### Non-functional Security Test Cases:

| **Sr. No.** | **Security test cases** | **Negative/ Positive Test Case** |
| --- | --- | --- |
| 1 | Verify if a user cannot enter the characters more than the specified range in each field (Username and Password). | Negative |
| 3 | Verify the login page by pressing ‘Back button’ of the browser. It should not allow you to enter into the system once you log out. | Positive |
| 4 | Verify the timeout functionality of the login session. | Negative |
| 5 | Verify if a user should not be allowed to log in with different credentials from the same browser at the same time. | Negative |
| 6 | Verify if a user should be able to login with the same credentials in different browsers at the same time. | Positive |
| 7 | Verify the Login page against SQL injection attack. | Negative |
| 8 | Verify the implementation of SSL certificate. | Negative |

****Testing Sign up page with Equivalence Class portioning:****

| **Sr. No.** | **Test criteria** | **Valid Test cases** | **Partition** | | | **Invalid Test cases** |
| --- | --- | --- | --- | --- | --- | --- |
| Invalid | Valid | Invalid |
| 1 | Name | any letter  or  special character  or  number with letter | 0-5 | 6-20 | Greater  than 20 | Any  number |
| 2 | Email | any letter  or  special character  or  number containing  mail criteria | 0-2 | 3-16 | Greater than 16 | Any letter  or  special character or  number not containing mail criteria |
| 3 | Phone  Number | any  number | 0-10 | 11 | Greater  than 11 | Any letter  or  special character |
| 4 | Password | Any letter  or  special character  or  number | 0-5 | 5-32 | Greater than 32 | Nil |

****Following is the Boundary Value Analysis for sign-up page :****

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ****Test ID**** | ****Name**** | ****Email**** | ****Phone Number**** | ****Password**** | ****Confirm Password**** | ****Expected Result**** | ****Actual Result**** |
| **101** | am55i | ami@mail.com | 11111111111 | 123456 | 123456 | **Success** | **Success** |
| **102** |  | ami@mail.com | 01625547789 | 123456 | 123456 | **Fail** | **Fail (user name required)** |
| **103** | am55gfi |  | 01625547789 | 123456 | 123456 | **Fail** | **Fail(email name required)** |
| **104** | am55i | ami@mail.com |  | 123456 | 123456 | **Fail** | **Fail(phone number required)** |
| **105** | am55i | ami@mail.com | 01625547789 |  |  | **Fail** | **Fail (password required)** |
| **106** |  | el | 01625547792 | 156234 | 156234 | **Fail** | **Fail (User name length minimum 3 characters)** |
| **107** | elas | amiamiamiamiaaamail.com | 01625547079 | 156222 | 156222 | **Fail** | **Fail(mail indentification{@} required)** |
| **108** | elas | ami@mail.com | 01625547792 | 156 | 156 | **Fail** | **Fail(Password length minimum 6 digits)** |
| **109** | elas | ami@mail.com | 0162554779 | 123456 | 123456 | **Fail** | **Fail(phone number must be 11 digit)** |
| **110** | qwertyqwertyqwertyqwertyqwertyqwerty | ami@mail.com | 01625547789 | 123456 | 123456 | **Fail** | **Fail(User name length maxium 32 characters)** |
| **111** | elas | amiamiamiamiami@mail.com | 0162554779 | 123456 | 123456 | **Fail** | **Success** |
| **112** | elas | ami@mail.com | 0162554779 | 123456123456123456123456123456123456 | 123456123456123456123456123456123456 | **Fail** | **Success** |

****Testing Sign up page with Functional test:****

| **Sr. No.** | **Functional Test Cases** | **Type- Negative/ Positive Test Case** |
| --- | --- | --- |
| 1 | Verify that all the specified fields are present on the Sign up page. | Positive |
| 2 | Verify that the required/mandatory fields are marked with \* against the field. | Negative |
| 3 | Verify the page has both submit and login buttons at the end. | Positive |
| 4 | Verify that clicking submits button after entering all the required fields, submits the data to the server. | Positive |
| 5 | Verify that not filling the mandatory fields and clicking the submit button will lead to a validation error. | Positive |
| 6 | Check the upper limit of the textboxes. | Negative |
| 7 | Check validation on the email fields (only valid dates and valid email Ids should be allowed. | Positive |
| 8 | Check validation on numeric fields by entering alphabets and special characters. | Positive |
| 9 | Verify that leading and trailing spaces are trimmed. | Negative |
| 10 | Verify that entering blank spaces on mandatory fields leads to the validation error. | Positive |
| 11 | Verify that after making a request to the server and then sending the same request again with the same unique key will lead to the server-side validation error. | Positive |

**Following is the possible list of l test cases for a Product Details page:**

| **Sr. No.** | **Functional Test Cases** | **Negative/ Positive Test Case** |
| --- | --- | --- |
| 1 | Verify Actual product details with expected product details. | Positive |
| 2 | Verify Add to cart should work properly. | Positive |
| 3 | Check that user is able to add products in the wish list. | Positive |
| 4 | Check that complete description of Product including images is shown properly. | Positive |
| 5 | Check that option to check the availability of product is present. | Negative |
| 6 | Check that user can rate, review the product. | Negative |
| 7 | Verify that the user is able to navigate through all the products across different categories. | Positive |
| 8 | Verify that all the links and banners are redirecting to correct product/category pages and none of the links are broken. | Negative |
| 9 | Verify that all the text – product, category name, price, and product description are clearly visible. | Positive |
| 10 | Verify that category pages have a relevant product listed specific to the category. | Positive |
| 11 | Verify that searching, sorting, filtering are working perfectly | Negative |

**Following is the possible list of test cases for a Order page:**

| **Sr. No.** | **Functional Test Cases** | **Type- Negative/ Positive Test Case** |
| --- | --- | --- |
| 1 | Check that After fill shipping address and payment, the order is placed successfully. | Positive |
| 2 | Check that Different payment types should be present, e.g. Credit Card, PayPal, Bank Transfers, Installments, etc. | Negative |
| 3 | Check that Cancel Order option is present. | Negative |

**Following is the possible list of test cases for a Post Purchase page:**

| **Sr. No.** | **Functional Test Cases** | **Negative/ Positive Test Case** |
| --- | --- | --- |
| 1 | Check that customer is able to Cancel the order or change the quantity of the order. | Negative |
| 2 | Check that customer is able to Review recent order and history of purchased items. | Negative |
| 3 | Check that customer is able to Change information, such as billing address, shipping address, change password, change profile information such as name, email address and even deleting an account. | Negative |

**Following is the possible list of functional and non-functional test cases for a Cart page:**

| **Sr. No.** | **Functional Test Cases** | **Type- Negative/ Positive Test Case** |
| --- | --- | --- |
| 1 | Check that user is able to add products to cart. | Positive |
| 2 | Check that the cart is updated with the correct name, image, and price of the product. | Positive |
| 3 | Check that user is able to add same product multiple times. | Positive |
| 4 | Check that the price increase accordingly when a product is added multiple times. | Positive |
| 5 | Check that user can add multiple products of different types. | Positive |
| 6 | Check that For each item added, a corresponding name, image, and price and the total price of all items is shown. | Positive |
| 7 | Check that when a product is removed from the cart the cart gets updated and shows the existing items in the cart, total price according to the products left in the cart. | Positive |
| 8 | Check that when all the products are removed from cart then cart balance becomes zero, no items should be displayed in the cart. | Positive |
| 9 | Check that customer should be able to see more information about the product when clicked on the product either as a popup or redirect to the product page. | Negative |
| 10 | When a user adds products to cart and then closes the tab then ideally, the cart should still hold your items or particularly depends on the requirements on how the cart should behave. | Positive |
| 11 | Check that the price of the cart is discounted when we apply a coupon and not discounted when we apply an invalid or expired coupon. | Negative |