**Testing**

**Introduction**

Once the system is designed it is necessary to perform the testing as to assure whether all the modules of the system is designed correctly. Testing is the prominent document in the problem solving methodology. In this document the different validations are checked and tested for the correctness of the system.

**Levels of testing**

**Unit testing**

In this testing, each unit is tested separately or individually to know it’s performance when checked solely. Any faults in each unit is corrected in this phase.

**Integration testing**

In this type of testing, two or more modules are combined together and tested for their performance. When two or more modules are integrated, the working of those modules along with each other is identified. If the modules don’t performance well in this phase they are tested again individually and then modified and integrated again.

**System testing**

The system testing is the last level of testing, here all modules in system are put together and tested for any errors and ambiguities. If the system performs well then it is further processed and the system is approved otherwise the testing phase is performed again until the system performs correctly.

**Test Reports:**

* + **Test Unit: Admin component**
  + **Admin login:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Serial No.** | **Condition**  **to be tested** | **Test Data** | **Expected output** | **Remarks** |
| 1. | If login ID is not entered. | adminloginid | Please enter your login ID. | SUCCESSFUL |
| 2. | If password is not entered. | adminpassword | Please enter the password. | SUCCESSFUL |
| 3. | If login ID and password are not valid. | adminloginid, adminpassword | Invalid login credentials. | SUCCESSFUL |

* + **Add administrator:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Serial No.** | **Condition**  **to be tested** | **Test Data** | **Expected output** | **Remarks** |
| 1. | If admin name is not entered. | adminname | Please enter admin name. | SUCCESSFUL |
| 2. | If admin name contains other than characters. | adminname | Enter only alphabets. | SUCCESSFUL |
| 3. | If login id is not entered. | loginid | Please enter your login id. | SUCCESSFUL |
| 4. | If password is not entered. | password | Please enter the password. | SUCCESSFUL |
| 5. | If password is less than 6 characters. | password | Password should be atleast 6 characters. | SUCCESSFUL |
| 6. | If confirm password is not entered. | cpassword | Please confirm your password. | SUCCESSFUL |
| 7. | If password and confirm password does not match. | Password, cpassword | Password and confirm password are not matching. | SUCCESSFUL |
| 8. | If email ID is not entered. | emailid | Please enter email ID. | SUCCESSFUL |
| 9. | If email ID is not valid. | emailid | Please enter valid email ID. | SUCCESSFUL |
| 10. | If contact number is not equal to 10 digits. | contactno | Kindly enter 10 digit contact numbers. | SUCCESSFUL |
| 11. | If contact number contains other than numeric values. | contactno | Enter only numeric values. | SUCCESSFUL |
| 12. | If contact number does not begin with 7, 8 or 9. | contactno | contact number should begin with 7 or 8 or 9. | SUCCESSFUL |

* + **Admin Update Profile:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Serial No.** | **Condition**  **to be tested** | **Test Data** | **Expected output** | **Remarks** |
| 1. | If admin name is not entered. | adminname | Please enter admin name. | SUCCESSFUL |
| 2. | If admin name contains other than characters. | adminname | Enter only alphabets. | SUCCESSFUL |
| 3. | If login id is not entered. | loginid | Please enter your login id. | SUCCESSFUL |
| 4. | If email ID is not entered. | emailid | Please enter email ID. | SUCCESSFUL |
| 5. | If email ID is not valid. | emailid | Please enter valid email ID. | SUCCESSFUL |
| 6. | If contact number is not equal to 10 digits. | contactno | Kindly enter 10 digit contact numbers. | SUCCESSFUL |
| 7. | If contact number contains other than numeric values. | contactno | Enter only numeric values. | SUCCESSFUL |
| 8. | If contact number does not begin with 7, 8 or 9. | contactno | contact number should begin with 7 or 8 or 9. | SUCCESSFUL |

* + **Admin change password:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Serial No.** | **Condition**  **to be tested** | **Test Data** | **Expected output** | **Remarks** |
| 1 | If email id is not entered | emailid | Please enter your email id | SUCCESSFUL |
| 2. | If old password is not entered. | oldpassword | Please enter your old password. | SUCCESSFUL |
| 3. | If new password is not entered. | password | Please enter new password. | SUCCESSFUL |
| 4. | If password is less than 6 characters. | oldpassword, password | Password should be atleast 6 characters. | SUCCESSFUL |
| 5. | If confirm password is not entered. | cpassword | Please confirm your password. | SUCCESSFUL |
| 6. | If password and confirm password does not match. | password, cpassword | Password and confirm password are not matching. | SUCCESSFUL |

* + **Test Unit: Customer component**
* **Customer Registration:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Serial No.** | **Condition**  **to be tested** | **Test Data** | **Expected output** | **Remarks** |
| 1. | If customer first name is not entered. | firstname | Please enter customer first name. | SUCCESSFUL |
| 2. | If customer first name contains other than characters. | firstname | Enter only alphabets. | SUCCESSFUL |
| 3. | If customer last name is not entered. | lastname | Please enter customer last name. | SUCCESSFUL |
| 4. | If customer last name contains other than characters. | lastname | Enter only alphabets. | SUCCESSFUL |
| 5. | If date of birth is not selected | date | Kindly select date of birth. | SUCCESSFUL |
| 6. | If email ID is not entered. | email | Please enter email ID. | SUCCESSFUL |
| 7. | If email ID is not valid. | email | Please enter valid email ID. | SUCCESSFUL |
| 8. | If password is not entered. | password | Please enter the password. | SUCCESSFUL |
| 9. | If password is less than 6 characters. | password | Password should be atleast 6 characters. | SUCCESSFUL |
| 10. | If confirm password is not entered. | cpassword | Please confirm your password. | SUCCESSFUL |
| 11. | If password and confirm password does not match. | Password, cpassword | Password and confirm password are not matching. | SUCCESSFUL |

* + **Customer Login:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Serial No.** | **Condition**  **to be tested** | **Test Data** | **Expected output** | **Remarks** |
| 1. | If email ID is not entered. | emailid | Please enter your emaiID. | SUCCESSFUL |
| 2. | If password is not entered. | password | Please enter the password. | SUCCESSFUL |
| 3. | If email ID and password are not valid. | emailid, password | Invalid login credentials. | SUCCESSFUL |

* + **Customer Update Profile:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Serial No.** | **Condition**  **to be tested** | **Test Data** | **Expected output** | **Remarks** |
| 1. | If customer first name is not entered. | firstname | Please enter customer first name. | SUCCESSFUL |
| 2. | If customer first name contains other than characters. | firstname | Enter only alphabets. | SUCCESSFUL |
| 3. | If customer last name is not entered. | lastname | Please enter customer last name. | SUCCESSFUL |
| 4. | If customer last name contains other than characters. | lastname | Enter only alphabets. | SUCCESSFUL |
| 5. | If date of birth is not selected | date | Kindly select date of birth. | SUCCESSFUL |
| 6. | If email ID is not entered. | email | Please enter email ID. | SUCCESSFUL |
| 7. | If email ID is not valid. | email | Please enter valid email ID. | SUCCESSFUL |

* + **Customer change password:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Serial No.** | **Condition**  **to be tested** | **Test Data** | **Expected output** | **Remarks** |
| 1. | If email ID is not entered. | email | Please enter email ID. | SUCCESSFUL |
| 2. | If email ID is not valid. | email | Please enter valid email ID. | SUCCESSFUL |
| 3. | If password is not entered. | password | Please enter the password. | SUCCESSFUL |
| 4. | If password is less than 6 characters. | password | Password should be atleast 6 characters. | SUCCESSFUL |
| 5. | If confirm password is not entered. | cpassword | Please confirm your password. | SUCCESSFUL |
| 6. | If password and confirm password does not match. | Password, cpassword | Password and confirm password are not matching. | SUCCESSFUL |

* + **Test Unit: Book Seller Component**
  + **Add Book seller:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Serial No.** | **Condition**  **to be tested** | **Test Data** | **Expected output** | **Remarks** |
| 1. | If company name is not entered. | compname | Please enter company name. | SUCCESSFUL |
| 2. | If company name contains other than characters. | compname | Enter only alphabets. | SUCCESSFUL |
| 3. | If address is not entered. | address | Please enter address. | SUCCESSFUL |
| 4. | If country is not selected | countryi | Kindly select country | SUCCESSFUL |
| 5. | If state is not selected | loadajaxstate | Kindly select state. | SUCCESSFUL |
| 6. | If contact number is not equal to 10 digits. | contactno | Kindly enter 10 digit contact numbers. | SUCCESSFUL |
| 7. | If contact number contains other than numeric values. | contactno | Enter only numeric values. | SUCCESSFUL |
| 8. | If contact number does not begin with 7, 8 or 9. | contactno | contact number should begin with 7 or 8 or 9. | SUCCESSFUL |
| 9. | If login id is not entered. | loginid | Please enter login ID. | SUCCESSFUL |
| 10. | If login ID is not valid. | loginid | Please enter valid login ID. | SUCCESSFUL |
| 11. | If password is not entered. | password | Please enter the password. | SUCCESSFUL |
| 12. | If password is less than 6 characters. | password | Password should be atleast 6 characters. | SUCCESSFUL |
| 13. | If confirm password is not entered. | cpassword | Please confirm your password. | SUCCESSFUL |
| 14. | If password and confirm password does not match. | Password, cpassword | Password and confirm password are not matching. | SUCCESSFUL |
| 15. | If image is not selected | browse | Kindly select image | SUCCESSFUL |
| 16. | If status is not selected | status | Kindly select status | SUCCESSFUL |

* + **Book seller update profile:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Serial No.** | **Condition**  **to be tested** | **Test Data** | **Expected output** | **Remarks** |
| 1. | If company name is not entered. | compname | Please enter company name. | SUCCESSFUL |
| 2. | If company name contains other than characters. | compname | Enter only alphabets. | SUCCESSFUL |
| 3. | If address is not entered. | address | Please enter address. | SUCCESSFUL |
| 4. | If country is not selected | countryi | Kindly select country | SUCCESSFUL |
| 5. | If state is not selected | loadajaxstate | Kindly select state. | SUCCESSFUL |
| 6. | If contact number is not equal to 10 digits. | contactno | Kindly enter 10 digit contact numbers. | SUCCESSFUL |
| 7. | If contact number contains other than numeric values. | contactno | Enter only numeric values. | SUCCESSFUL |
| 8. | If contact number does not begin with 7, 8 or 9. | contactno | contact number should begin with 7 or 8 or 9. | SUCCESSFUL |
| 9. | If login id is not entered. | loginid | Please enter login ID. | SUCCESSFUL |
| 10. | If login ID is not valid. | loginid | Please enter valid login ID. | SUCCESSFUL |

* + **Book seller login:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Serial No.** | **Condition**  **to be tested** | **Test Data** | **Expected output** | **Remarks** |
| 1. | If login ID is not entered. | login\_id | Please enter your login ID. | SUCCESSFUL |
| 2. | If password is not entered. | password | Please enter the password. | SUCCESSFUL |
| 3. | If login ID and password are not valid. | password | Invalid login credentials. | SUCCESSFUL |

* + **Book seller change password:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Serial No.** | **Condition**  **to be tested** | **Test Data** | **Expected output** | **Remarks** |
| 1. | If login id is not entered. | loginid | Please enter login ID. | SUCCESSFUL |
| 2. | If login ID is not valid. | loginid | Please enter valid login ID. | SUCCESSFUL |
| 3. | If password is not entered. | password | Please enter the password. | SUCCESSFUL |
| 4. | If password is less than 6 characters. | password | Password should be atleast 6 characters. | SUCCESSFUL |
| 5. | If confirm password is not entered. | cpassword | Please confirm your password. | SUCCESSFUL |
| 6. | If password and confirm password does not match. | Password, cpassword | Password and confirm password are not matching. | SUCCESSFUL |

* + **Test Unit: Author Component:**
  + **Add author:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Serial No.** | **Condition**  **to be tested** | **Test Data** | **Expected output** | **Remarks** |
| 1. | If author name is not entered. | author\_name | Please enter author name. | SUCCESSFUL |
| 2. | If author name contains other than characters. | author\_name | Enter only alphabets. | SUCCESSFUL |
| 3. | If about author is not entered. | about\_author | Please enter about author. | SUCCESSFUL |
| 4. | If author image is not selected | author\_img | Kindly select author image | SUCCESSFUL |
| 5. | If author status is not selected | author\_status | Kindly select author status | SUCCESSFUL |

* + **Test Unit: Book Component:**
  + **Add Book:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Serial No.** | **Condition**  **to be tested** | **Test Data** | **Expected output** | **Remarks** |
| 1. | If book name is not entered. | bookname | Book Name should not blank | SUCCESSFUL |
| 2. | If book cover page image is not selected | browse | Please select book cover page image | SUCCESSFUL |
| 3. | If category is not selected. | category | Please select Category. | SUCCESSFUL |
| 4. | If supplier is not selected | supplier | Select Book Seller from the list | SUCCESSFUL |
| 5. | If quantity is not selected | quantity | Select number of quantity | SUCCESSFUL |
| 6. | If price is not entered | price | Price should not be blank | SUCCESSFUL |
| 7. | If discount is not entered | discount | Enter discount amount. | SUCCESSFUL |
| 8. | If number of pages is not entered. | number\_of\_pages | Enter number of pages | SUCCESSFUL |
| 9. | If stock status is not selected. | stockstatus | Select stock status | SUCCESSFUL |
| 10. | If delivery days is not entered | delivery | Enter delivery days. | SUCCESSFUL |
| 11. | If book type is not selected | book\_type | Select book type | SUCCESSFUL |
| 12. | If digital book link is not selected | digital\_book\_link | Select digital book link | SUCCESSFUL |
| 13. | If book author is not selected | book\_author\_id | Select book author | SUCCESSFUL |
| 14. | If book language is not entered | language | Enter book language | SUCCESSFUL |
| 15. | If demo book link is not selected | demo\_book\_link | Select demo book link | SUCCESSFUL |
| 16. | If status is not selected | status | Kindly select status | SUCCESSFUL |

* + **Update Book:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Serial No.** | **Condition**  **to be tested** | **Test Data** | **Expected output** | **Remarks** |
| 1. | If book name is not entered. | bookname | Book Name should not blank | SUCCESSFUL |
| 2. | If book cover page image is not selected | browse | Please select book cover page image | SUCCESSFUL |
| 3. | If category is not selected. | category | Please select Category. | SUCCESSFUL |
| 4. | If supplier is not selected | supplier | Select Book Seller from the list | SUCCESSFUL |
| 5. | If quantity is not selected | quantity | Select number of quantity | SUCCESSFUL |
| 6. | If price is not entered | price | Price should not be blank | SUCCESSFUL |
| 7. | If discount is not entered | discount | Enter discount amount. | SUCCESSFUL |
| 8. | If number of pages is not entered. | number\_of\_pages | Enter number of pages | SUCCESSFUL |
| 9. | If stock status is not selected. | stockstatus | Select stock status | SUCCESSFUL |
| 10. | If delivery days is not entered | delivery | Enter delivery days. | SUCCESSFUL |
| 11. | If book type is not selected | book\_type | Select book type | SUCCESSFUL |
| 12. | If digital book link is not selected | digital\_book\_link | Select digital book link | SUCCESSFUL |
| 13. | If book author is not selected | book\_author\_id | Select book author | SUCCESSFUL |
| 14. | If book language is not entered | language | Enter book language | SUCCESSFUL |
| 15. | If demo book link is not selected | demo\_book\_link | Select demo book link | SUCCESSFUL |
| 16. | If status is not selected | status | Kindly select status | SUCCESSFUL |

* + **Test Unit: Category Component:**
  + **Add Category:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Serial No.** | **Condition**  **to be tested** | **Test Data** | **Expected output** | **Remarks** |
| 1. | If category name is not entered. | catname | Please enter category name. | SUCCESSFUL |
| 2. | If description is not entered. | description | Please enter description. | SUCCESSFUL |

* + **Update Category:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Serial No.** | **Condition**  **to be tested** | **Test Data** | **Expected output** | **Remarks** |
| 1. | If category name is not entered. | catname | Please enter category name. | SUCCESSFUL |
| 2. | If description is not entered. | description | Please enter description. | SUCCESSFUL |

* + **Test Unit: Shipping Address Component:**
  + **Add Shipping Address:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Serial No.** | **Condition**  **to be tested** | **Test Data** | **Expected output** | **Remarks** |
| 1. | If address is not entered. | address | Please enter address. | SUCCESSFUL |
| 2. | If country is not selected | countryi | Kindly select country | SUCCESSFUL |
| 3. | If state is not selected | loadajaxstate | Kindly select state. | SUCCESSFUL |
| 4. | If contact number is not equal to 10 digits. | contactno | Kindly enter 10 digit contact numbers. | SUCCESSFUL |
| 5. | If contact number contains other than numeric values. | contactno | Enter only numeric values. | SUCCESSFUL |
| 6. | If contact number does not begin with 7, 8 or 9. | contactno | contact number should begin with 7 or 8 or 9. | SUCCESSFUL |