**TESTING OVERVIEW**

* **Introduction:**

Testing is the major quality control measure used during software development. It is a basic function to detect errors in the software. During the requirement analysis and design the output of the document that is usually textual and non-executable after the coding phase the computer programs are available that can be executed for testing purpose. This implies that testing not only has to uncover errors introduce during the previous phase. The goal of testing is to uncover requirement, design and coding errors in the program.

Testing determines whether the system appears to be working according to the specifications. It is the phase where we try to break the system and we test the system with real case scenarios at a point.

* **Levels of Testing:**
* **Unit Testing:**

The unit testing of the source code has to be done for every individual unit of module that was developing part of the system and some errors were found for every turn and rectified. This form of testing was use to check for the behavior signified the working of the system in different environment as an independent functional unit.

* **Integration Testing:**

From the individual parts to the cohesion of each part to make the system as a whole, there is need to test the working between the assembled modules of the system. The modules are integrated to make up the entire system. The testing process is concerned with finding errors that result from unanticipated interaction between the sub-system and system component. It is also concerned with validating the system meets its functional and non-functional requirement.

* **System Testing:**

The requirement specification document that is the entire system is to be tested to see whether it meets the requirement or not.

**Test Reports:**

* + **Test Unit: Customer component**
* **Customer registration:**

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| --- | --- | --- | --- | --- |
| **Serial No.** | **Condition**  **To be Tested** | **Test Data** | **Expected Output** | **Remarks** |
| 1. | If any field in the form is empty. | Value of form fields. | Alert the user to enter all the fields and then proceed. | SUCCESSFUL |
| 2. | If first name, last name contains other than Character values. | custfname, custllname | Alert the user to enter only Characters and return to same page. | SUCCESSFUL |
| 3. | If user tries to enter date greater than the current date. | Dob | Alert the user to enter correct date. | SUCCESSFUL |
| 4. | If the username Already Exist. | username | Alert the user to enter other Username. | SUCCESSFUL |
| 5. | If the the Email Id is not in the specified format | email | Alert the user to enter proper Email ID | SUCCESSFUL |
| 6 | If password and confirm password does not match | c\_password | Alert the user to enter correct password | SUCCESSFUL |
| 7. | If Submit Button is clicked. | Value of form fields | Validate all the entries.  Execute the INSERT query.  Display the message “Customer record inserted successfully”. | SUCCESSFUL |

* **Customer login:**

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| --- | --- | --- | --- | --- |
| **Serial No.** | **Condition**  **to be tested** | **Test Data** | **Expected output** | **Remarks** |
| 1. | If Email ID is not entered. | Email ID | Please enter your email ID. | SUCCESSFUL |
| 2. | If password is not entered. | Password | Please enter your password. | SUCCESSFUL |

* **Customer update profile:**

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| --- | --- | --- | --- | --- |
| **Serial No.** | **Condition**  **to be tested** | **Test Data** | **Expected output** | **Remarks** |
| 1. | If customer name is not entered. | Full Name | Please enter your name. | SUCCESSFUL |
| 2. | If customer name contains other than characters. | Full Name | Enter only alphabets. | SUCCESSFUL |
| 3. | If date is not entered. | dob | Please enter date. | SUCCESSFUL |
| 4. | If Email ID is not entered. | Email ID | Please enter Email ID. | SUCCESSFUL |

* **Customer change password:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Serial No.** | **Condition**  **to be tested** | **Test Data** | **Expected output** | **Remarks** |
| 1. | If old password is not entered. | Old Password | Please enter your old password. | SUCCESSFUL |
| 2. | If new password is not entered. | New Password | Please enter new password. | SUCCESSFUL |
| 3. | If password is less than 6 characters. | Password | Password should be atleast 6 characters. | SUCCESSFUL |
| 4. | If confirm password is not entered. | Confirm Password | Please confirm your password. | SUCCESSFUL |
| 5. | If password and confirm password does not match. | Password and  Confirm Password | Password and confirm password are not matching. | SUCCESSFUL |
| 6. | If all fields are entered. | All mandatory fields. | Customer password updated successfully. | SUCCESSFUL |

* **Customer forgot password:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Serial No.** | **Condition**  **to be tested** | **Test Data** | **Expected output** | **Remarks** |
| 1. | If Email ID is not entered. | Email ID | Please enter your email ID. | SUCCESSFUL |
| 2. | If Email ID is invalid. | Email ID | Please enter valid email ID. | SUCCESSFUL |
| 3 | If Email ID is valid. | Email ID | Login credentials sent by mail. | SUCCESSFUL |

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

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| --- | --- | --- | --- | --- |
| **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 |

* + **Admin update profile:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Serial No.** | | **Condition**  **To be Tested** | **Test Data** | **Expected Output** | **Remarks** |
| **1** | | If any field in the form is empty | Value of form fields. | Alert the user to enter all the fields and then proceed. | SUCCESSFUL |
| **2** | | If Admin name is not entered. | Name | Admin name should not be empty | SUCCESSFUL |
| 3 | | If login id less than 6 characters | login\_id | Login ID must be more than 6 character | SUCCESSFUL |
| 4 | | If password less than 8 characters | a\_password | Password length should be more than 8 characters | SUCCESSFUL |
| 5 | | If password and confirm password doesn’t matches | a\_password | Password not matching | SUCCESSFUL |
| 6 | If the Email is not matching the original Format. | | Email\_id | Kindly enter valid email ID | SUCCESSFUL |
| 7 | If contact no field contains less than 10 digits | | Contact\_no | Enter 10 digit contact number | SUCCESSFUL |

* + **Test Unit: Shop Owner component**
  + **Shop Owner login:**

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| --- | --- | --- | --- | --- |
| **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 |

* + **Shop Owner update profile:**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Serial No.** | | **Condition**  **To be Tested** | **Test Data** | | **Expected Output** | **Remarks** | |
| 1 | | If any field in the form is empty. | Value of form fields. | | Alert the user to enter all the fields and then proceed. | SUCCESSFUL | |
| 2 | | If company name is not entered | Compname | | Company Name should not be empty. | SUCCESSFUL | |
| 3 | | If address field contains empty record | Address | | Address should not be empty | SUCCESSFUL | |
| 4 | | If country contains empty value | country | | Select country | SUCCESSFUL | |
| 5 | | If state contains empty value | State | | Select State | SUCCESSFUL | |
| 6 | | If contact no field contains less than 10 digits | Contact\_no | | Enter 10 digit contact number | SUCCESSFUL | |
| 7 | If password contains less than 8 characters | | password | Password should be more than 8 characters. | | | SUCCESSFUL |
| 8 | If confirm password doesn’t match with password | | password | Password not matching | | | SUCCESSFUL |
| 9 | If image is not selected | | browse | Select Image for the product. | | | SUCCESSFUL |
| 10 | If status is not selected | | status | Select status | | | SUCCESSFUL |

* + **Shop Owner change password:**

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

* **Shop Owner forgot password:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Serial No.** | **Condition**  **to be tested** | **Test Data** | **Expected output** | **Remarks** |
| 1. | If Email ID is not entered. | Email ID | Please enter your email ID. | SUCCESSFUL |
| 2. | If Email ID is invalid. | Email ID | Please enter valid email ID. | SUCCESSFUL |
| 3 | If Email ID is valid. | Email ID | Login credentials sent by mail. | SUCCESSFUL |

* + **Test Unit: Product component**
  + **Add Category:**

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

* **Add subcategory;**

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| **Serial No.** | **Condition**  **to be tested** | **Test Data** | **Expected output** | **Remarks** |
| 1. | If category is not selected. | Select Category | Please select category. | SUCCESSFUL |
| 2. | If subcategory name is not entered. | Sub category Name | Please enter category name. | SUCCESSFUL |
| 3. | If description is not entered. | Description | Please enter description. | SUCCESSFUL |

* + **Add product:**

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| --- | --- | --- | --- | --- |
| **Serial No.** | **Condition**  **to be tested** | **Test Data** | **Expected output** | **Remarks** |
| 1. | If product name is not entered. | product name | Please enter product name. | SUCCESSFUL |
| 2. | If category is not selected. | Category | Please select category. | SUCCESSFUL |
| 3. | If subcategory is not selected. | Sub Category | Please select sub category. | SUCCESSFUL |
| 4. | If supplier is not selected. | supplier | Please select shop owner from the list. | SUCCESSFUL |
| 5. | If quantity is not selected. | quantity | Please select quantity. | SUCCESSFUL |
| 6. | If price is not entered. | price | Price should not be blank | SUCCESSFUL |
| 7. | If discount amount is not entered | discount | Enter discount amount | SUCCESSFUL |
| 8. | If warranty not entered | warranty | Enter warranty | SUCCESSFUL |
| 9. | If stock status is not selected. | stockstatus | Please select stock status. | SUCCESSFUL |
| 10. | If delivery day is not entered | delivery | Enter delivery days. | SUCCESSFUL |
| 11. | If product description is not entered. | specification | Please enter product description. | SUCCESSFUL |
| 12. | If image is not selected. | image | Please select image. | SUCCESSFUL |
| 13. | If status is not selected. | Status | Please select status. | SUCCESSFUL |

* + **Test Unit: Billing component**
  + **Shipping Details:**

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| **Serial No.** | **Condition**  **To be Tested** | **Test Data** | | **Expected Output** | **Remarks** | |
| 1 | If any field in the form is empty. | Value of form fields. | | Alert the user to enter all the fields and then proceed. | SUCCESSFUL | |
| 2 | If address field contains null value | Address | | Alerts the user to enter value by displaying “Address should not be null” | SUCCESSFUL | |
| 3 | If address field contains null value | Country | | Alerts the user to enter value by displaying “Select country” | SUCCESSFUL | |
| 4 | If State field contains null value | state | | Alerts the user to enter value by displaying “Select State” | SUCCESSFUL | |
| 5 | If pincode contains only numeric value and value equal to 6 | Pincode | | Alerts the user to enter only numeric and 6 letter values | SUCCESSFUL | |
| 6 | If contact number contains only numeric value and value less than or equal to 12 | | Contactno | Alerts the user to enter only numeric and less than 12 letter values | | SUCCESSFUL |

* **Payment Details:**

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| --- | --- | --- | --- | --- |
| **Serial No.** | **Condition**  **To be Tested** | **Test Data** | **Expected Output** | **Remarks** |
| 1 | If card type contains null value | Cardtype | Select card type | SUCCESSFUL |
| 2 | If card number contains numeric value and 16 digits | Card number | Enter 16 digit numeric value | SUCCESSFUL |
| 3 | If CVV number 3 digit numeric value | CVV number | Enter 3 digit numeric value | SUCCESSFUL |
| 4 | If expiry date contains year more than current year | Expirydate | Enter correct expiry date | SUCCESSFUL |