**8 TESTING**

**8.1 Introduction**

Testing is the major quality control measures and during the software development it is used to detect errors that could have occurred during any of the phase like requirement analysis, design, coding. The goal of the testing is to uncover errors in the program.

**8.2 Levels of Testing**

Testing is done in different levels which includes the following.

* Unit Testing
* Integration Testing
* System testing
* Acceptance testing
* **Unit Testing**

In Unit testing each module gets tested during the coding phase itself. The purpose is to exercise the different parts of the module code to detect the coding errors.

* **Integration Testing**

After new testing the modules are gradually integrated into sub systems. It is performed to detect design errors by focusing on testing the interconnection between modules.

* **System Testing**

System is tested against the system requirement if all the requirements are met and if the system performs as specified by the requirement.

* **Acceptance Testing**

It is performed to demonstrate to the client on real life data of the client, the operation of the system.

**8.3 Test Case**

It is the input that tests the genuineness of the program and successful execution of the test case revels. that there are no errors in the program that are under testing. it is a set of conditions or variables under which tester will determine whether an application or software is working currently

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| --- | --- |
| Test case-ID | 01 |
| Test Case Title | Login |
| Purpose of testing | Testing the login |
| Test data | Username and password |
| Steps | Step:1 IF username and Password is valid THEN  Step:2 DISPLAY Login successful message.  Step:3 ELSE DISPLAY Login Unsuccessful message. |
| Expected Output | Invalid output:      Valid output: |

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| --- | --- |
| Test case-ID | 02 |
| Test Case Title | Registration |
| Purpose of testing | To register customer for the web-site. |
| Test data | Full name, Username, Password, Address, Region, Phone number |
| Steps | 1. Click on customer registration.  2. Enter the Full name, Username, Password, Address, Region, Phone number  3. Click on register button  4. If record is valid display registration successful message.  5. Else display warning message with description. |
| Expected Output | Invalid output:      Valid output: |

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| --- | --- |
| Test case-ID | 03 |
| Test Case Title | Registration |
| Purpose of testing | To register dealer for the web-site. |
| Test data | Full name, Username, Password, Address, Region, Phone number, License ID |
| Steps | 1. Click on customer registration.  2. Enter the Full name, Username, Password, Address, Region, Phone number, License ID  3. Click on register button  4. If record is valid display registration successful message.  5. Else display warning message with description. |
| Expected Output | Invalid output:        Valid output: |

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| --- | --- |
| Test case-ID | 04 |
| Test Case Title | Feedback |
| Purpose of testing | To give feedback for the dealer or order. |
| Test data | Feedback |
| Steps | 1. Click on feedback  2. Enter the feedback  3. Click on submit button  4. If feedback is given display successful message.  5. Else display warning message with description. |
| Expected Output | Invalid output:    Valid output: |

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| --- | --- |
| Test case-ID | 05 |
| Test Case Title | Add product |
| Purpose of testing | To add product for website. |
| Test data | Image, Product name, price, quantity, stock, unit, description. |
| Steps | 1. Click on add product  2. Enter the Image, Product name, price, quantity, stock, unit, description.  3. Click on add product button  4. If product details are added display successful message.  5. Else display warning message with description. |
| Expected Output | Invalid output:      Valid output: |

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| --- | --- |
| Test case-ID | 06 |
| Test Case Title | Update product |
| Purpose of testing | To change the added product for website. |
| Test data | Product name/price/quantity/stock/unit/description. |
| Steps | 1. Click on update product  2. Enter the details of the product you want to update.  3. Click on update product button  4. If product details are added display successful message.  5. Else display warning message with description. |
| Expected Output | Invalid output:      Valid output: |

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| --- | --- |
| Test case-ID | 07 |
| Test Case Title | Add region |
| Purpose of testing | To add region for website. |
| Test data | Region name and pin code. |
| Steps | 1. Click on add region  2. Enter the region name and pin code.  3. Click on add region button  4. If region details are added display successful message.  5. Else display warning message with description. |
| Expected Output | Invalid output:        Valid output: |

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| --- | --- |
| Test case-ID | 08 |
| Test Case Title | Add update region |
| Purpose of testing | To update region for website. |
| Test data | Region name/pin code. |
| Steps | 1. Click on update region  2. Enter the region name/pin code.  3. Click on update region button  4. If region details are added display successful message.  5. Else display warning message with description. |
| Expected Output | Invalid output:      Valid output: |