# Chapter 5 – Testing

## 5.1 – Introduction

Testing is the process of checking an activity whether the expected result of the system match the actual result provide by the system to finalize that the system is free of defect. This stage of Software Development Life Cycle is done to check the system is providing actual output or not as the user wants. It helps to assesses the quality of the product. It can also be understanding as the verification and validation process of the product.

## 5.2 – Types of Testing

There are many types of testing. They are:

* Unit Testing
* Black box Testing
* Integration Testing
* Usability Testing
* User Acceptance Testing, etc.

The testing which I have chosen are listed below:

### 5.2.1 – Unit Testing

### 5.2.2 – Black Box Testing

Black box Testing is behavioral testing which is done to check the functionality of the system. The tester, sets the input data and then output data is match then the system is marked test passed and if the input and output doesn’t match then the test is marked as fail. This types of testing only focuses on the input and output result of the data and ignores the internal structure of the system.

**Test Name: Registration and Login**

**Test id: T-1 to T-4**

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| --- | --- | --- | --- | --- | --- |
| **Test Id** | **Test Scenario** | **Test Data** | **Expected result** | **Actual Result** | **Result** |
| **T-1** | Registration Validation | Username, email, password, re-password, phone number, gender, address | If the any of the field is empty then the error message will display. | Display error message. | Pass |
| **T-2** | User Registration | Username, email, password, re-password, phone number, gender, address | User must be stored in database. | User registered successfully. | Pass |
| **T-3** | Email and password validation | Email and password | If the field is empty or the input email and password is not correct error message will be display | Display error message. | Pass |
| **T-4** | User or admin login | Email and password | User must get access to their respective dashboard. | User login successfully and land on dashboard | Pass |

**Test Name: Log Out**

**Test ID: T-5**

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| --- | --- | --- | --- | --- | --- |
| **Test ID** | **Test Scenario** | **Test data** | **Expected Result** | **Actual Result** | **Result** |
| **T-5** | If user is logout of the system | Email and password | User must be logout from the system. | Successfully log out from the system, | Pass |

**Test Name: Add, View, Update, Delete product**

**Test ID: T-6 to T-9**

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| --- | --- | --- | --- | --- | --- |
| **Test ID** | **Test Scenario** | **Test Data** | **Expected Result** | **Actual Result** | **Result** |
| **T-6** | Add product | Item name, brand, type, description, image, price, date | All field must be fulfill and should add successfully. | Product added successfully. | Pass |
| **T-7** | View product | Item name, brand, type, description, image, price, date | All product details must be shown clearly. | All product are shown successfully. | Pass |
| **T-8** | Update product | Item name, brand, type, description, image, price, date | Product related data must be updated on database. | Product updated successfully | Pass |
| **T-9** | Delete product | Item name, brand, type, description, image, price, date | The data related to the product must be delete. | Product deleted successfully. | Pass |

**Test Name: Add, View, Update, Delete adopt dogs**

**Test ID: T-10 to T-13**

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| --- | --- | --- | --- | --- | --- |
| **Test ID** | **Test Scenario** | **Test Data** | **Expected Result** | **Actual Result** | **Result** |
| **T-10** | Add dogs | Name, breed, age, color, sex, size description, image, price, date | All field must be fulfill and should add successfully. | Dogs added successfully. | Pass |
| **T-11** | View dog | Name, breed, age, color, sex, size description, image, price, date | All dog details must be shown clearly. | All dogs are shown successfully. | Pass |
| **T-12** | Update dog | Name, breed, age, color, sex, size description, image, price, date | Dogs related data must be updated on database. | Dog updated successfully | Pass |
| **T-13** | Delete dog | Name, breed, age, color, sex, size description, image, price, date | The data related to the dog must be delete. | Dog deleted successfully. | Pass |

**Test Name: View, Update, Delete user details by admin**

**Test ID: T-14 to T-16**

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| --- | --- | --- | --- | --- | --- |
| **Test ID** | **Test Scenario** | **Test Data** | **Expected Result** | **Actual Result** | **Result** |
| **T-14** | View user | Username, email, phone number, gender, address | All user’s details must be shown clearly. | All user are shown successfully. | Pass |
| **T-15** | Update user | Username, email, phone number, gender, address | User related data must be updated on database. | User details updated successfully | Pass |
| **T-16** | Delete user | Username, email, phone number, gender, address | The data related to the user must be delete. | User details deleted successfully. | Pass |

**Test Name: Order product**

**Test ID: T-17 to T-18**

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| --- | --- | --- | --- | --- | --- |
| **Test ID** | **Test Scenario** | **Test Data** | **Expected Result** | **Actual Result** | **Result** |
| **T-17** | Order Product | Item name, brand, type, description, image, Quantity, price, date | The product must be order successfully. | Product was ordered successfully | Pass |
| **T-18** | Order Details | Item name, brand, type, description, image, Quantity, price, date | User must see their ordered product. | User can see all the ordered product. | Pass |

**Test Name: Adopt dogs**

**Test ID: T-19 to T-20**

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| --- | --- | --- | --- | --- | --- |
| **Test ID** | **Test Scenario** | **Test Data** | **Expected Result** | **Actual Result** | **Result** |
| **T-19** | Adopt Dogs | Name, breed, age, color, sex, size description, image, price, date | The dog must be adopt successfully. | Dog is adopt successfully. | Pass |
| **T-20** | Adopt Details | Name, breed, age, color, sex, size description, image, price, date | User must see dog adopt details. | User can see all the adopted dogs. | Pass |