**CHAPTER 5**

**Software Testing**

Software testing is an investigation conducted to provide stakeholders with information about the quality of the software product or service under test. Software testing can also provide an objective, independent view of the software to allow the business to appreciate and understand the risks of software implementation. Test techniques include the process of executing a program or application with the intent of finding software bugs, and verifying that the software product is fit for use.

**5.1 Types of testing**

**5.1.1** Functional Testing

* Unit testing
* Integration testing
* System testing

**5.1.2** Non-Functional Testing

* Performance Testing
* Compatibility Testing
* Reliability Testing

**5.2 Test Cases**

**5.2.1 Customer Module**

**5.2.1.1 Log In**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Input** | |  | **Expected Output** | **Actual Output** |
|  |  |  |
| **Email** |  | **Password** |
|  |  |  |
|  |  |  |  |  |
| admin@gmail.com |  | admin | Successfully logged in | Successfully logged in |
|  |  |  |  |  |
| hello |  | 123 | Log in failed | Log in failed |
|  |  |  |  |  |
| charlie@xy.bz |  | 5678 | Log in failed | Log in failed |
|  |  |  |  |  |

**5.2.2 User Module**

**5.2.2.1 Register**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | **Inputs** | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| **First Name** |  | **Last Name** | |  |  |  | **Email** | **Password** | **Expected** | **Actual** | |
|  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | **Output** | **Output** | |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Anu |  |  | Malik |  |  | abc@gmail.com | | 1234 | Successfully | Successfully | |
|  |  |  |  | Registered | Registered | |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Balwant |  |  | Brown |  |  | bet@gmail.com | | 12345 | Check | Check | |
|  |  |  |  | Password | Password | |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Cozy |  |  | Cha |  | qwerty@gmail.com | | | 564@ | Check | Check | |
|  |  |  | Password | Password | |
|  |  |  |  |  |  |  |  |  |
|  |  | |  |  |  |  |  |  |  |  |  |
| **5.2.2.2 Log In** | | | | |  |  |  |  |  |  |  |
|  |  |  | | |  |  |  |  |  |  |  |
|  |  | **Input** | | |  |  | **Expected Output** | | **Actual Output** | |  |
|  |  |  |  |  |  |  |  |
| **Username** | |  | **Password** | | | |  |  |  |  |  |
|  | |  |  | | |  |  | |  | |  |
| harish | |  | charlie | | |  | Successfully logged in | | Successfully logged in | |  |
|  | |  |  |  |  |  |  | |  | |  |
| beta | |  | 123 |  |  |  | Log in failed | | Log in failed | |  |
|  | |  |  | |  |  |  | |  | |  |
| charlie | |  | 5678 | |  |  | Log in failed | | Log in failed | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |