# Test case components: Name: Nathan West

* 1. **Name** – identifies the test case, it is a good idea to derive the name from the requirement being tested.
  2. **Purpose** – states the purpose of the test and relates it to the requirement (or scenario).
  3. **Test set up** – describe the h/w and s/w and environment required for a successful test.
  4. **Input** – description of the input data or commands.
  5. **Expected output** ***(or Oracle)*** – expected test results against which the output of the test is compared.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Purpose** | **Test set up** | **Input** | **Expected output** |
| testSetFirstName1 | Tests with valid string parameter | A Customer object has been created called testCustomer | testCustomer.setFirstName(“Nate”); | Expected: Nate; Actual: Nate  Is displayed |
| testSetFirstName2 | Tests with empty string | A Customer object has been created called testCustomer | testCustomer.setFirstName(“”); | IllegalArgumentException(“Please enter a valid first name”); |
| testSetFirstName3 | Tests with null | A Customer object has been created called testCustomer | testCustomer.setFirstName(null); | Java.lang.NullPointerException |
| testSetLastName1 | Tests with valid string parameter | A Customer object has been created called testCustomer | testCustomer.setLastName(“West”); | Expected: West; Actual: West  Is displayed |
| testSetLastName2 | Tests with empty string | A Customer object has been created called testCustomer | testCustomer.setLastName(“”); | IllegalArgumentException(“Please enter a valid last name”); |
| testSetLastName3 | Tests with null | A Customer object has been created called testCustomer | testCustomer.setLastName(null); | Java.lang.NullPointerException |
| testSetEmailAddress1 | Tests with valid string paramter | A Customer object has been created called testCustomer | testCustomer.setEmailAddress(“west@email.com”); | Expected: west@email.com; Actual: west@email.com  Is displayed |
| testSetEmailAddress2 | Tests with null | A Customer object has been created called testCustomer | testCustomer.setEmailAddress(null); | Java.lang.NullPointerException |
| testSetEmailAddress3 | Tests with empty string | A Customer object has been created called testCustomer | testCustomer.setEmailAddress(“”); | IllegalArgumentException(“Please enter a valid email address”); |
| testSetEmailAddress4 | Tests w/o @ sign in address | A Customer object has been created called testCustomer | testCustomer.setEmailAddress(“westemail.com”); | IllegalArgumentException(“Please enter a valid email address”); |
| testSetPhoneNumber1 | Tests with valid string parameter | A Customer object has been created called testCustomer | testCustomer.setPhoneNumber(“804-123-4567”); | Expected: 804-123-4567; Actual: 804-123-4567  Is displayed |
| testSetPhoneNumber2 | Tests with null | A Customer object has been created called testCustomer | testCustomer.setPhoneNumber(null); | Java.lang.NullPointerException |
| testSetPhoneNumber3 | Tests with empty string | A Customer object has been created called testCustomer | testCustomer.setPhoneNumber(“”); | IllegalArgumentException(“Please enter a valid phone number”); |
| testSetNumGears1 | Tests with valid int parameter | A Bicycle object created called testBicycle | testBicycle.setNumGets(4); | Expected: 4; Actual: 4  Is displayed |
| testSetNumGears2 | Tests with negative int | A Bicycle object created called testBicycle | testBicycle.setNumGets(-1); | IllegalArgumentException(“Please enter a valid number of gears”); |
| testSetNumGears3 | Tests with 0 | A Bicycle object created called testBicycle | testBicycle.setNumGets(0); | IllegalArgumentException(“Please enter a valid number of gears”); |
| testSetWeight1 | Tests with valid int parameter | A Bicycle object created called testBicycle | testBicycle.setWeight(10); | Expected: 10; Actual: 10  Is displayed |
| testSetWeight2 | Tests with negative int | A Bicycle object created called testBicycle | testBicycle.setWeight(-1); | IllegalArgumentException(“Please enter a valid weight”); |
| testSetWeight3 | Tests with 0 | A Bicycle object created called testBicycle | testBicycle.setWeight(0); | IllegalArgumentException(“Please enter a valid weight”); |
| testSetWheelSize1 | Tests with valid int parameter | A Bicycle object created called testBicycle | testBicycle.setWheelSize(26); | Expected: 26; Actual: 26  Is displayed |
| testSetWheelSize2 | Tests with negative int | A Bicycle object created called testBicycle | testBicycle.setWheelSize(-1); | IllegalArgumentException(“Please enter a valid wheel size”); |
| testSetWheelSize3 | Tests with 0 | A Bicycle object created called testBicycle | testBicycle.setWheelSize(0); | IllegalArgumentException(“Please enter a valid wheel size”); |
| testSetColor1 | Tests with valid string parameter | A Bicycle object created called testBicycle | testBicycle.setColor(“Blue”); | Expected: Blue; Actual: Blue  Is displayed |
| testSetColor2 | Tests with empty string | A Bicycle object created called testBicycle | testBicycle.setColor(“”); | IllegalArgumentException(“Please enter a valid color”); |
| testSetColor3 | Tests with null | A Bicycle object created called testBicycle | testBicycle.setColor(null); | IllegalArgumentException(“Please enter a valid color”); |
| testSetBrand1 | Tests with valid string parameter | A Bicycle object created called testBicycle | testBicycle.setBrand(“REI”); | Expected: REI; Actual: REI  Is displayed |
| testSetBrand2 | Tests with empty string | A Bicycle object created called testBicycle | testBicycle.setBrand(“”); | IllegalArgumentException(“Please enter a valid brand”); |
| testSetBrand3 | Tests with null | A Bicycle object created called testBicycle | testBicycle.setBrand(null); | IllegalArgumentException(“Please enter a valid brand”); |