Portfolio 2 – Advanced Prototype & Test Logs

**P Number: 2760131**

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**Individual Component: Order Management**

**Team Name: Logic Flow**

**GitHub Link:** [**https://github.com/AndrewDul/BeyondEarth-TeamProject.git**](https://github.com/AndrewDul/BeyondEarth-TeamProject.git)

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# SQL Server Login Details

**Server Name:** v00egd00002l.lec-admin.dmu.ac.uk

**User Name: p2760131**

**Password: !MyDatabase2025!**

# Test Logs

**Description of Item to Be Tested:**

|  |
| --- |
| CustomerID field validation in clsOrder.Valid() |

**Required Field Y**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Type** | **Test Data** | **Expected Result** | **Actual Result** |
| Extreme Min | -1000000 | Error message returned | Error message returned |
| Min -1 | 0 | Error message returned | Error message returned |
| Min (Boundary) | 1 | No error | No error |
| Min +1 | 2 | No error | No error |
| Max -1 | 999998 | No error | No error |
| Max (Boundary) | 999999 | No error | No error |
| Max +1 | 1000000 | Error message returned | Error message returned |
| Mid | 500000 | No error | No error |
| Extreme Max | 2147483647 | Error message returned | Error message returned |
| Invalid data type | "abc" | Error message returned | Error message returned |
| Other tests | N/A |  |  |

**Additional Notes / Instructions:**

|  |
| --- |
| The CustomerID field is expected to be a positive integer within the range 1 to 999999. The Valid() method rejects values below 1, above 999999, or non-numeric input. The primary key OrderID is excluded from validation tests. |

**Description of Item to Be Tested:**

|  |
| --- |
| ProductID field validation in clsOrder.Valid() |

**Required Field Y**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Type** | **Test Data** | **Expected Result** | **Actual Result** |
| Extreme Min | -1000000 | Error message returned | Error message returned |
| Min -1 | 0 | Error message returned | Error message returned |
| Min (Boundary) | 1 | No error | No error |
| Min +1 | 2 | No error | No error |
| Max -1 | 999998 | No error | No error |
| Max (Boundary) | 999999 | No error | No error |
| Max +1 | 1000000 | Error message returned | Error message returned |
| Mid | 500000 | No error | No error |
| Extreme Max | 2147483647 | Error message returned | Error message returned |
| Invalid data type | "xyz" | Error message returned | Error message returned |
| Other tests | N/A |  |  |

**Additional Notes / Instructions:**

|  |
| --- |
| The ProductID field must be a positive integer between 1 and 999999. The Valid() method rejects values below 1, above 999999, or non-numeric input. |

**Description of Item to Be Tested:**

|  |
| --- |
| OrderDate field validation in clsOrder.Valid() |

**Required Field Y**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Type** | **Test Data** | **Expected Result** | **Actual Result** |
| Extreme Min | 1924-05-21 (today - 100y) | Error message returned | Error message returned |
| Min -1 | 2025-05-20 (yesterday) | Error message returned | Error message returned |
| Min (Boundary) | 2025-05-21 (today) | No error | No error |
| Min +1 | 2025-05-22 *(tomorrow)* | Error message returned | Error message returned |
| Max -1 | 2025-05-20 | Error message returned | Error message returned |
| Max (Boundary) | 2025-05-21 | No error | No error |
| Max +1 | 2025-05-22 | Error message returned | Error message returned |
| Mid | 2025-05-21 | No error | No error |
| Extreme Max | 2125-05-21 (today + 100y) | Error message returned | Error message returned |
| Invalid data type | "not-a-date" | Error message returned | Error message returned |
| Other tests | N/A |  |  |

|  |
| --- |
| The OrderDate field must be a valid date and must not be in the past or future. The only acceptable value is today's date. The Valid() method returns an error for dates earlier or later than the current date, as well as for non-date input |

**Additional Notes / Instructions:**

**Description of Item to Be Tested:**

|  |
| --- |
| TotalPrice() field validation in clsOrder.Valid() |

**Required Field Y**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Type** | **Test Data** | **Expected Result** | **Actual Result** |
| Extreme Min | -1000000 | Error message returned | Error message returned |
| Min -1 | -1 | Error message returned | Error message returned |
| Min (Boundary) | 0 | No error | No error |
| Min +1 | 1 | No error | No error |
| Max -1 | 9999 | No error | No error |
| Max (Boundary) | 10000 | No error | No error |
| Max +1 | 10001 | Error message returned | Error message returned |
| Mid | 5000 | No error | No error |
| Extreme Max | 1000000 | Error message returned | Error message returned |
| Invalid data type | "ten pounds" | Error message returned | Error message returned |
| Other tests | N/A |  |  |

**Additional Notes / Instructions:**

|  |
| --- |
| The TotalPrice field must be a numeric value between 0 and 10000 inclusive. The Valid() method rejects negative values, non-numeric input, and values that exceed the defined upper limit. |

**Description of Item to Be Tested:**

|  |
| --- |
| OrderStatus() field validation in clsOrder.Valid() |

**Required Field Y**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Type** | **Test Data** | **Expected Result** | **Actual Result** |
| Extreme Min | "" | Error message returned | Error message returned |
| Min -1 | "" | Error message returned | Error message returned |
| Min (Boundary) | "A" | No Error | No Error |
| Min +1 | "AB" | No Error | No Error |
| Max -1 | "AAAAAAAAAAAAAAAAAAA" | No Error | No Error |
| Max (Boundary) | "AAAAAAAAAAAAAAAAAAAA" | No Error | No Error |
| Max +1 | "AAAAAAAAAAAAAAAAAAAAA" | Error message returned | Error message returned |
| Mid | "Processing" | No Error | No Error |
| Extreme Max | "A...A" (100x A) | Error message returned | Error message returned |
| Invalid data type | "@#$%^&\*()" | No error (valid) | No error (valid) |
| Other tests | N/A |  |  |

**Additional Notes / Instructions:**

|  |
| --- |
| The OrderStatus field must be a non-empty string between 1 and 20 characters in length. The Valid() method returns an error for blank input, overly long values, or strings exceeding the maximum length. Valid examples include common status terms such as 'Pending', 'Approved', or 'Processing'. |