**Description of Item to Be Tested:**

|  |
| --- |
| customerId is a field that contains the unique number assigned to a customer. The number has to be greater than 0 and cannot contain any other characters than integers. |

**Required Field Y / N**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Type** | **Test Data** | **Expected Result** | **Actual Result** |
| Extreme Min | -4781293 | Error: Id negative |  |
| Min -1 | 0 | Error: Id equals 0 |  |
| Min (Boundary) | 1 | Success |  |
| Min +1 | 2 | Success |  |
| Max -1 | N/A |  |  |
| Max (Boundary) | N/A |  |  |
| Max +1 | N/A |  |  |
| Mid | 19 | Success |  |
| Extreme Max | N/A |  |  |
| Invalid data type | Any that is not an integer | Error: Id invalid |  |
| Other tests |  |  |  |

**Description of Item to Be Tested:**

|  |
| --- |
| firstName is a string that contains the first name of a customer. The field must not contain numbers. Length cannot exceed 30. |

**Required Field Y / N**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Type** | **Test Data** | **Expected Result** | **Actual Result** |
| Extreme Min | N/A |  |  |
| Min -1 | Blank String | Failure |  |
| Min (Boundary) | 1 character | Success |  |
| Min +1 | 2 characters | Success |  |
| Max -1 | 29 Characters | Success |  |
| Max (Boundary) | 30 Characters | Success |  |
| Max +1 | 31 Characters | Error: Too Long |  |
| Mid | 15 Characters | Success |  |
| Extreme Max | 500 Characters | Error: Too Long |  |
| Invalid data type | Integer | Error: Invalid Name |  |
| Other tests | Special characters are allowed because some names contain valid characters that would otherwise be consider special, such as letter accents. | Success |  |

**Description of Item to Be Tested:**

|  |
| --- |
| LastName is a string that contains the last name of a customer. The field must not contain numbers. Length cannot exceed 50. |

**Required Field Y / N**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Type** | **Test Data** | **Expected Result** | **Actual Result** |
| Extreme Min | N/A |  |  |
| Min -1 | Blank String | Failure |  |
| Min (Boundary) | 1 character | Success |  |
| Min +1 | 2 characters | Success |  |
| Max -1 | 49 Characters | Success |  |
| Max (Boundary) | 50 Characters | Success |  |
| Max +1 | 51 Characters | Error: Too Long |  |
| Mid | 25 Characters | Success |  |
| Extreme Max | 500 Characters | Error: Too Long |  |
| Invalid data type | Integer | Error: Invalid Name |  |
| Other tests | Special characters are allowed because some surnames contain valid characters that would otherwise be consider special, such as hyphens. | Success |  |

**Description of Item to Be Tested:**

|  |
| --- |
| DateOfBirth is customer’s date of birth. The earliest accepted year is 2004 (customer must be at least 16 years old). The furthest accepted date is year 1920 (our customers will probably not be over 100 years old). Customers younger than 16 years old will have to use their parents’ account. |

**Required Field Y / N**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Type** | **Test Data** | **Expected Result** | **Actual Result** |
| Extreme Min | 12 Jan 1820 | Failure |  |
| Min -1 | 31/12/1919 | Failure |  |
| Min (Boundary) | 01/01/1920 | Success |  |
| Min +1 | 02/01/1920 | Success |  |
| Max -1 | 31 Dec 2003 | Failure |  |
| Max (Boundary) | 01 Jan 2004 | Success |  |
| Max +1 | 02 Jan 2004 | Success |  |
| Mid | 17 Jan 1995 | Success |  |
| Extreme Max | 07 Jul 2081 | Failure |  |
| Invalid data type |  |  |  |
| Other tests |  |  |  |

**Description of Item to Be Tested:**

|  |
| --- |
| ConnectionDate is the date when the connection takes place. The earliest accepted year is 2020 (when the business was established). The furthest accepted date is year 2022 (For now, you can create connections two years in advance). |

**Required Field Y / N**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Type** | **Test Data** | **Expected Result** | **Actual Result** |
| Extreme Min | 12 Jan 1820 | Failure |  |
| Min -1 | 31/12/2019 | Failure |  |
| Min (Boundary) | 01/01/2020 | Success |  |
| Min +1 | 02/01/2021 | Success |  |
| Max -1 | 30/12/2021 | Success |  |
| Max (Boundary) | 31/12/2022 | Success |  |
| Max +1 | 01/01/2023 | Failure |  |
| Mid | 17 Jan 2021 | Success |  |
| Extreme Max | 07 Jul 2081 | Failure |  |
| Invalid data type |  |  |  |
| Other tests |  |  |  |

**Description of Item to Be Tested:**

|  |
| --- |
| TicketId is a field that contains the unique number assigned to a ticket. The number has to be greater than 0 and cannot contain any other characters than integers. |

**Required Field Y / N**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Type** | **Test Data** | **Expected Result** | **Actual Result** |
| Extreme Min | -4781293 | Error: Id negative |  |
| Min -1 | 0 | Error: Id equals 0 |  |
| Min (Boundary) | 1 | Success |  |
| Min +1 | 2 | Success |  |
| Max -1 | N/A |  |  |
| Max (Boundary) | N/A |  |  |
| Max +1 | N/A |  |  |
| Mid | 19 | Success |  |
| Extreme Max | N/A |  |  |
| Invalid data type | Any that is not an integer | Error: Id invalid |  |
| Other tests |  |  |  |

**Description of Item to Be Tested:**

|  |
| --- |
| Address is a string that contains the address of a customer. Length cannot exceed 100. It must be longer than 10 characters. |

**Required Field Y / N**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Type** | **Test Data** | **Expected Result** | **Actual Result** |
| Extreme Min | Blank String | Failure |  |
| Min -1 | 10 characters | Failure |  |
| Min (Boundary) | 11 characters | Success |  |
| Min +1 | 12 characters | Success |  |
| Max -1 | 99 Characters | Success |  |
| Max (Boundary) | 100 Characters | Success |  |
| Max +1 | 101 Characters | Failure |  |
| Mid | 50 Characters | Success |  |
| Extreme Max | 500 Characters | Failure |  |
| Invalid data type |  |  |  |
| Other tests |  |  |  |

**Description of Item to Be Tested:**

|  |
| --- |
| Email is a string that contains the E-Mail address of the customer. The field must be 30 characters or shorter and 6 characters or longer. |

**Required Field Y / N**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Type** | **Test Data** | **Expected Result** | **Actual Result** |
| Extreme Min | Blank String | Failure |  |
| Min -1 | 5 character | Failure |  |
| Min (Boundary) | 6 character | Success |  |
| Min +1 | 7 characters | Success |  |
| Max -1 | 29 Characters | Success |  |
| Max (Boundary) | 30 Characters | Success |  |
| Max +1 | 31 Characters | Failure |  |
| Mid | 15 Characters | Success |  |
| Extreme Max | 500 Characters | Failure |  |
| Invalid data type | Integer | Failure |  |
| Other tests |  |  |  |

**Description of Item to Be Tested:**

|  |
| --- |
| TicketTypeName is a string that contains the name of the ticket type. The field must be 4 characters or longer and must be 40 characters or shorter. |

**Required Field Y / N**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Type** | **Test Data** | **Expected Result** | **Actual Result** |
| Extreme Min | Blank String | Failure |  |
| Min -1 | 3 characters | Failure |  |
| Min (Boundary) | 4 characters | Success |  |
| Min +1 | 5 characters | Success |  |
| Max -1 | 39 Characters | Success |  |
| Max (Boundary) | 40 Characters | Success |  |
| Max +1 | 41 Characters | Failure |  |
| Mid | 20 Characters | Success |  |
| Extreme Max | 500 Characters | Failure |  |
| Invalid data type |  |  |  |
| Other tests |  |  |  |

**Description of Item to Be Tested:**

|  |
| --- |
| ConnectionStartStation is a string that contains the name of the station where the train departs from. The field must be 70 characters or shorter and 2 characters or longer. |

**Required Field Y / N**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Type** | **Test Data** | **Expected Result** | **Actual Result** |
| Extreme Min | Blank String | Failure |  |
| Min -1 | 1 character | Failure |  |
| Min (Boundary) | 2 character | Success |  |
| Min +1 | 3 characters | Success |  |
| Max -1 | 69 Characters | Success |  |
| Max (Boundary) | 70 Characters | Success |  |
| Max +1 | 71 Characters | Failure |  |
| Mid | 35 Characters | Success |  |
| Extreme Max | 500 Characters | Failure |  |
| Invalid data type |  |  |  |
| Other tests |  |  |  |

**Description of Item to Be Tested:**

|  |
| --- |
| ConnectionEndStation is a string that contains the name of the station where the train arrives at. The field must be 70 characters or shorter and 2 characters or longer. |

**Required Field Y / N**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Type** | **Test Data** | **Expected Result** | **Actual Result** |
| Extreme Min | Blank String | Failure |  |
| Min -1 | 1 character | Failure |  |
| Min (Boundary) | 2 characters | Success |  |
| Min +1 | 3 characters | Success |  |
| Max -1 | 69 Characters | Success |  |
| Max (Boundary) | 70 Characters | Success |  |
| Max +1 | 71 Characters | Failure |  |
| Mid | 35 Characters | Success |  |
| Extreme Max | 500 Characters | Failure |  |
| Invalid data type |  |  |  |
| Other tests |  |  |  |

**Description of Item to Be Tested:**

|  |
| --- |
| TicketTypeId is a field that contains the unique number assigned to a ticket type. The number has to be greater than 0 and cannot contain any other characters than integers. |

**Required Field Y / N**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Type** | **Test Data** | **Expected Result** | **Actual Result** |
| Extreme Min | -4781293 | Error: Id negative |  |
| Min -1 | 0 | Error: Id equals 0 |  |
| Min (Boundary) | 1 | Success |  |
| Min +1 | 2 | Success |  |
| Max -1 | N/A |  |  |
| Max (Boundary) | N/A |  |  |
| Max +1 | N/A |  |  |
| Mid | 19 | Success |  |
| Extreme Max | N/A |  |  |
| Invalid data type | Any that is not an integer | Error: Id invalid |  |
| Other tests |  |  |  |

**Description of Item to Be Tested:**

|  |
| --- |
| ConnectionId is a field that contains the unique number assigned to a connection. The number has to be greater than 0 and cannot contain any other characters than integers. |

**Required Field Y / N**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Type** | **Test Data** | **Expected Result** | **Actual Result** |
| Extreme Min | -4781293 | Error: Id negative |  |
| Min -1 | 0 | Error: Id equals 0 |  |
| Min (Boundary) | 1 | Success |  |
| Min +1 | 2 | Success |  |
| Max -1 | N/A |  |  |
| Max (Boundary) | N/A |  |  |
| Max +1 | N/A |  |  |
| Mid | 19 | Success |  |
| Extreme Max | N/A |  |  |
| Invalid data type | Any that is not an integer | Error: Id invalid |  |
| Other tests |  |  |  |

**Description of Item to Be Tested:**

|  |
| --- |
| PaymentId is a field that contains the unique number assigned to a payment. The number has to be greater than 0 and cannot contain any other characters than integers. |

**Required Field Y / N**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Type** | **Test Data** | **Expected Result** | **Actual Result** |
| Extreme Min | -4781293 | Error: Id negative |  |
| Min -1 | 0 | Error: Id equals 0 |  |
| Min (Boundary) | 1 | Success |  |
| Min +1 | 2 | Success |  |
| Max -1 | N/A |  |  |
| Max (Boundary) | N/A |  |  |
| Max +1 | N/A |  |  |
| Mid | 19 | Success |  |
| Extreme Max | N/A |  |  |
| Invalid data type | Any that is not an integer | Error: Id invalid |  |
| Other tests |  |  |  |

**Description of Item to Be Tested:**

|  |
| --- |
| ConnectionTime is the exact time when the train leaves the station. Since this is aimed at displayed time and time only, the input must be valid time of the day. |

**Required Field Y / N**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Type** | **Test Data** | **Expected Result** | **Actual Result** |
| Extreme Min | N/A |  |  |
| Min -1 | 23:59 | Success |  |
| Min (Boundary) | 00:00 | Success |  |
| Min +1 | 00:01 | Success |  |
| Max -1 | 23:58 | Success |  |
| Max (Boundary) | 23:59 | Success |  |
| Max +1 | 24:00 | Change to 00:00 |  |
| Mid | 12:00 | Success |  |
| Extreme Max | N/A |  |  |
| Invalid data type |  |  |  |
| Other tests | ‘:’ is required as an hours and minutes separator. |  |  |

**Description of Item to Be Tested:**

|  |
| --- |
| AccountCreatedAt is the date when the account was made. The earliest accepted year is 2020 (when the business was established). Dates in the future are not allowed. |

**Required Field Y / N**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Type** | **Test Data** | **Expected Result** | **Actual Result** |
| Extreme Min | 12 Jan 1820 | Failure |  |
| Min -1 | 31/12/2019 | Failure |  |
| Min (Boundary) | 01/01/2020 | Success |  |
| Min +1 | 02/01/2020 | Success |  |
| Max -1 | Yesterday’s date | Success |  |
| Max (Boundary) | Today’s date | Success |  |
| Max +1 | Tomorrow’s date | Failure |  |
| Mid | 06/06/2020 | Success |  |
| Extreme Max | 07 Jul 2081 | Failure |  |
| Invalid data type |  |  |  |
| Other tests |  |  |  |

**Description of Item to Be Tested:**

|  |
| --- |
| PaymentStartDate is the date when the customer started making payment for their ticket. The earliest accepted year is 2020 (when the business was established). Dates in the future are not allowed. |

**Required Field Y / N**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Type** | **Test Data** | **Expected Result** | **Actual Result** |
| Extreme Min | 12 Jan 1820 | Failure |  |
| Min -1 | 31/12/2019 | Failure |  |
| Min (Boundary) | 01/01/2020 | Success |  |
| Min +1 | 02/01/2020 | Success |  |
| Max -1 | Yesterday’s date | Success |  |
| Max (Boundary) | Today’s date | Success |  |
| Max +1 | Tomorrow’s date | Failure |  |
| Mid | 06/06/2020 | Success |  |
| Extreme Max | 07 Jul 2081 | Failure |  |
| Invalid data type |  |  |  |
| Other tests |  |  |  |

**Description of Item to Be Tested:**

|  |
| --- |
| PaymentEndDate is the date when the customer finished making payment for their ticket. The date cannot be set earlier than its corresponding PaymentStartDate value. Dates in the future are not allowed. |

**Required Field Y / N**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Type** | **Test Data** | **Expected Result** | **Actual Result** |
| Extreme Min | 12 Jan 1820 | Failure |  |
| Min -1 | 1 minute before PaymentStartDate | Failure |  |
| Min (Boundary) | PaymentStartDate | Success |  |
| Min +1 | 1 minute after PaymentStartDate | Success |  |
| Max -1 | Yesterday’s date | Success |  |
| Max (Boundary) | Today’s date | Success |  |
| Max +1 | Tomorrow’s date | Failure |  |
| Mid | 06/06/2020 | Success |  |
| Extreme Max | 07 Jul 2081 | Failure |  |
| Invalid data type |  |  |  |
| Other tests |  |  |  |

**Description of Item to Be Tested:**

|  |
| --- |
| ConnectionTicketLimit is a field that contains the amount of tickets that can be sold for a connection. This value must be positive and can reach 0 once there are no tickets remaining. It is estimated the value will not go over 500. |

**Required Field Y / N**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Type** | **Test Data** | **Expected Result** | **Actual Result** |
| Extreme Min | -920 | Failure |  |
| Min -1 | -1 | Failure |  |
| Min (Boundary) | 0 | Success |  |
| Min +1 | 1 | Success |  |
| Max -1 | 499 | Success |  |
| Max (Boundary) | 500 | Success |  |
| Max +1 | 501 | Failure |  |
| Mid | 250 | Success |  |
| Extreme Max | 2000 | Failure |  |
| Invalid data type | Any that is not an integer | Failure |  |
| Other tests |  |  |  |

**Description of Item to Be Tested:**

|  |
| --- |
| PaymentValue is a field that contains the value of a payment. This is a floating point number which represents currency and must be at least of value 0. Prices of the tickets could vary in price but they are estimated not to cost more than 4 figures. |

**Required Field Y / N**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Type** | **Test Data** | **Expected Result** | **Actual Result** |
| Extreme Min | -215.24 | Failure |  |
| Min -1 | -00.01 | Failure |  |
| Min (Boundary) | 00.00 | Success |  |
| Min +1 | 00.01 | Success |  |
| Max -1 | 9999.98 | Success |  |
| Max (Boundary) | 9999.99 | Success |  |
| Max +1 | 10000.00 | Failure |  |
| Mid | 15.25 | Success |  |
| Extreme Max | 286100.50 | Failure |  |
| Invalid data type | Any that is not a floating point number | Failure |  |
| Other tests | ‘.’ Character is allowed for the decimal place |  |  |

**Description of Item to Be Tested:**

|  |
| --- |
| AccountActive is a true or false value which represents whether the account is active or disabled. |

**Required Field Y / N**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Type** | **Test Data** | **Expected Result** | **Actual Result** |
| Extreme Min | N/A |  |  |
| Min -1 | N/A |  |  |
| Min (Boundary) | 0 | Success |  |
| Min +1 | N/A |  |  |
| Max -1 | N/A |  |  |
| Max (Boundary) | 1 | Success |  |
| Max +1 | N/A |  |  |
| Mid | N/A |  |  |
| Extreme Max | N/A |  |  |
| Invalid data type | Any that is not ‘1’ or ‘0’ | Failure |  |
| Other tests |  |  |  |

**Description of Item to Be Tested:**

|  |
| --- |
| TicketActive is a true or false value which represents whether the ticket is active or disabled. |

**Required Field Y / N**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Type** | **Test Data** | **Expected Result** | **Actual Result** |
| Extreme Min | N/A |  |  |
| Min -1 | N/A |  |  |
| Min (Boundary) | 0 | Success |  |
| Min +1 | N/A |  |  |
| Max -1 | N/A |  |  |
| Max (Boundary) | 1 | Success |  |
| Max +1 | N/A |  |  |
| Mid | N/A |  |  |
| Extreme Max | N/A |  |  |
| Invalid data type | Any that is not ‘1’ or ‘0’ | Failure |  |
| Other tests |  |  |  |

**Description of Item to Be Tested:**

|  |
| --- |
| TicketTypeActive is a true or false value which represents whether the ticket type is active or disabled. |

**Required Field Y / N**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Type** | **Test Data** | **Expected Result** | **Actual Result** |
| Extreme Min | N/A |  |  |
| Min -1 | N/A |  |  |
| Min (Boundary) | 0 | Success |  |
| Min +1 | N/A |  |  |
| Max -1 | N/A |  |  |
| Max (Boundary) | 1 | Success |  |
| Max +1 | N/A |  |  |
| Mid | N/A |  |  |
| Extreme Max | N/A |  |  |
| Invalid data type | Any that is not ‘1’ or ‘0’ | Failure |  |
| Other tests |  |  |  |

**Description of Item to Be Tested:**

|  |
| --- |
| ConnectionActive is a true or false value which represents whether the connection is active or disabled. |

**Required Field Y / N**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Type** | **Test Data** | **Expected Result** | **Actual Result** |
| Extreme Min | N/A |  |  |
| Min -1 | N/A |  |  |
| Min (Boundary) | 0 | Success |  |
| Min +1 | N/A |  |  |
| Max -1 | N/A |  |  |
| Max (Boundary) | 1 | Success |  |
| Max +1 | N/A |  |  |
| Mid | N/A |  |  |
| Extreme Max | N/A |  |  |
| Invalid data type | Any that is not ‘1’ or ‘0’ | Failure |  |
| Other tests |  |  |  |