**Test Plans : Streaming Rule Engine**

## **Test Setup for Unit testing**

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| Code file | RuleMatcher.java |
| Version | 1.0 |
| Date of testing | 9-Sept-2018 |
| Type of test | Unit testing |
| Tester | Shubha |
| Test Setup | Testing done using Maven Unit Using SureFire plugin. |

## **Test Plans:**

Below are the test plans for various functionalities of this module.

### String valued data test :

Below tests test the various conditions to check if the filter gives the correct output when the signal is string valued:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Test Description | test | PASS/FAIL | Correction |
| 1. | When Signal is String valued “HIGH” and the rule specifies that it should be equal HIGH.  **Expected output :** Since the values are equal, and the operation specified also is equality and the data should be sent out when the signals do not match, the output is False | test\_case1\_check\_eq\_string\_filter() | PASS |  |
| 2. | When Signal is String valued “HIGH” and the rule specifies that it should be not equal HIGH.  **Expected output :** Since the values are equal, and the operation specified also is inequality and the data should be sent out when the signals do not match, the output is True | test\_case2\_check\_ne\_string\_filter() | PASS |  |
| 3 | When Signal is String valued “LOW” and the rule specifies that it should be equal HIGH.  **Expected output :** Since the values are equal, and the operation specified also is equality and the data should be sent out when the signals do not match, the output is True | test\_case3\_check\_eq\_string\_filter() | PASS |  |
| 4 | When Signal is String valued “LOW” and the rule specifies that it should be not equal HIGH.  **Expected output :** Since the values are not equal, and the operation specified also is equality and the data should be sent out when the signals do not match, the output is False | test\_case4\_check\_ne\_string\_filter() | PASS |  |

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### Integer valued data test :

Below tests test the various conditions to check if the filter gives the correct output when the signal is string valued:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Test Description | test | PASS/FAIL | Correction |
| 1. | When Signal is Integer valued “240” and the rule specifies that it should be equal “240”.  **Expected output :** Since the values are equal, and the operation specified also is equality and the data should be sent out when the signals do not match, the output is False | test\_case5\_check\_eq\_integer\_filter | PASS |  |
| 2. | When Signal is Integer valued “57.2” and the rule specifies that it should be not equal 10.  **Expected output :** Since the values are equal, and the operation specified also is inequality and the data should be sent out when the signals do not match, the output is True | test\_case6\_check\_gt\_integer\_filter | PASS |  |
| 3 | When Signal is Integer valued “80” and the rule specifies that it should be equal 25.  **Expected output :** Since the values are equal, and the operation specified also is equality and the data should be sent out when the signals do not match, the output is True | test\_case7\_check\_gte\_string\_filter | PASS |  |
| 4 | When Signal is Integer valued “80” and the rule specifies that it should be not equal 25.  **Expected output :** Since the values are not equal, and the operation specified also is equality and the data should be sent out when the signals do not match, the output is False | test\_case8\_check\_ne\_string\_filter | PASS |  |

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