

Test cases description

KVMarshallerTest

Test Case	Description
KVMarshallerTest.testMarshall	<ul style="list-style-type: none">• testing the marshall logic for general values
KVMarshallerTest.testMarshallSpecialCharacters	<ul style="list-style-type: none">• testing marshall logic when the marshall values has special characters that are part of the message protocol

KVUnmarshallerTest

KVUnmarshallerTest.testUnmarshall	<ul style="list-style-type: none">• testing the unmarshall logic for general values
KVUnmarshallerTest.testUnmarshallSpecialCharacters1	<ul style="list-style-type: none">• testing unmarshall logic when the unmarshall values has special characters that are part of the message protocol
KVUnmarshallerTest.testUnmarshallSpecialCharacters2	<ul style="list-style-type: none">• testing unmarshall logic when the unmarshall values has special characters that are part of the message protocol
KVUnmarshallerTest.testUnmarshallSpecialCharacters3	<ul style="list-style-type: none">• testing unmarshall logic when the unmarshall values has special characters that are part of the message protocol
KVUnmarshallerTest.testUnmarshallSpecialCharacters4	<ul style="list-style-type: none">• testing unmarshall logic when the unmarshall values has special characters that are part of the message protocol
KVUnmarshallerTest.testUnmarshallSpecialCharacters5	<ul style="list-style-type: none">• testing unmarshall logic when the unmarshall values has special characters that are part of the message protocol
KVUnmarshallerTest.testUnmarshallSpecialCharacters6	<ul style="list-style-type: none">• testing unmarshall logic when the unmarshall values has special characters that are part of the message protocol
KVUnmarshallerTest.testInvalidMessage	<ul style="list-style-type: none">• testing unmarshall logic when message type is wrong
KVUnmarshallerTest.testEmptyMessage	<ul style="list-style-type: none">• testing unmarshall logic when the key value is empty
KVUnmarshallerTest.testMessageWithSpaces	<ul style="list-style-type: none">• testing unmarshall logic when the unmarshall values has spaces

FifoCacheTest

FifoCacheTest.addToCacheTest	<ul style="list-style-type: none">• test the logic of adding a key value pair to the cache
FifoCacheTest.getFromCacheForExistingKeyTest	<ul style="list-style-type: none">• test the logic when getting the value for an existing key
FifoCacheTest.getFromCacheForNonExistingKeyTest	<ul style="list-style-type: none">• test the logic when trying to get the value for non existing key
FifoCacheTest.addToCacheReplaceTest	<ul style="list-style-type: none">• test the cache replace logic when the cache is full

LFUCacheTest

LFUCacheTest.addToCacheTest	<ul style="list-style-type: none">• test the logic of adding a key value pair to the cache
LFUCacheTest.getFromCacheForExistingKeyTest	<ul style="list-style-type: none">• test the logic when getting the value for an existing key
LFUCacheTest.getFromCacheForNonExistingKeyTest	<ul style="list-style-type: none">• test the logic when trying to get the value for non existing key
LFUCacheTest.addToCacheReplaceTest	<ul style="list-style-type: none">• test the cache replace logic when the cache is full

LRUCacheTest

LRUCacheTest.addToCacheTest	<ul style="list-style-type: none">• test the logic of adding a key value pair to the cache
LRUCacheTest.getFromCacheForExistingKeyTest	<ul style="list-style-type: none">• test the logic when getting the value for an existing key
LRUCacheTest.getFromCacheForNonExistingKeyTest	<ul style="list-style-type: none">• test the logic when trying to get the value for non existing key
LRUCacheTest.addToCacheReplaceLogicTest	<ul style="list-style-type: none">• test the cache replace logic when the cache is full

SimpleKeyValueStoreTest

SimpleKeyValueStoreTest.shouldGetValue	<ul style="list-style-type: none">• test get value logic from the database for a given key
--	--

SimpleKeyValueStoreTest.shouldGetMultipleValues	<ul style="list-style-type: none"> • test multiple consecutive retrievals for keys works correctly
SimpleKeyValueStoreTest.shouldReturnCorrectValuesForHasKey	<ul style="list-style-type: none"> • test whether the hasKey() method works properly
SimpleKeyValueStoreTest.shouldThrowKeyNotFound	<ul style="list-style-type: none"> • test the proper exception is thrown when trying to retrieve non existent key
SimpleKeyValueStoreTest.shouldWriteValues	<ul style="list-style-type: none"> • test the logic of writing to the database works properly for a given key value pair
SimpleKeyValueStoreTest.readWrites	<ul style="list-style-type: none"> • test that the written key value pairs can be read after
SimpleKeyValueStoreTest.readMultipleWrites	<ul style="list-style-type: none"> • test that the written multiple key value pairs can be read after

RandomAccessKeyValueStoreTest

RandomAccessKeyValueStoreTest.shouldGetValue	<ul style="list-style-type: none"> • test get value logic from the database for a given key
RandomAccessKeyValueStoreTest.shouldGetMultipleValues	<ul style="list-style-type: none"> • test multiple consecutive retrievals for keys works correctly
RandomAccessKeyValueStoreTest.shouldReturnCorrectValuesForHasKey	<ul style="list-style-type: none"> • test whether the hasKey() method works properly
RandomAccessKeyValueStoreTest.shouldThrowKeyNotFound	<ul style="list-style-type: none"> • test the proper exception is thrown when trying to retrieve non existent key
RandomAccessKeyValueStoreTest.shouldWriteFile	<ul style="list-style-type: none"> • test the logic of writing to the database works properly for a given key value pair
RandomAccessKeyValueStoreTest.shouldDeleteValue	<ul style="list-style-type: none"> • test the logic of deleting a key value pair works properly
RandomAccessKeyValueStoreTest.shouldDeleteValueAndReadOthers	<ul style="list-style-type: none"> • test that when there are multiple key value pairs in the database and when delete one, others can be read without error
RandomAccessKeyValueStoreTest.shouldUpdateValue	<ul style="list-style-type: none"> • test that the value is updated properly for an existing key

Connection

Connections.testConnectionSuccess	<ul style="list-style-type: none"> • test that the connect is success when the host and port are valid
Connections.testUnknownHost	<ul style="list-style-type: none"> • test that proper exception is thrown when trying to connect to a invalid host

Connections.testIllegalPort	<ul style="list-style-type: none"> • test that proper exception is thrown when the port is invalid
-----------------------------	---

Interactions

Interactions.testPut	<ul style="list-style-type: none"> • test that the put command is working correctly for valid key, value pair
Interactions.testPutDisconnected	<ul style="list-style-type: none"> • test that put is not success when the client is disconnected and a proper exception is thrown
Interactions.testUpdate	<ul style="list-style-type: none"> • test that the when put command is issued with an existing key, the existing value in the database is updated
Interactions.testDelete	<ul style="list-style-type: none"> • test that delete key scenario is working properly
Interactions.testGet	<ul style="list-style-type: none"> • test that the get command is working correctly for valid key
Interactions.testGetUnsetValue	<ul style="list-style-type: none"> • test that the get command returns proper error when the key is not present in the database