Spring Framework containsWhitespace(..) method

In previous posts we have seen methods like isEmpty(..), hasText(..) & hasLength(..). In this post we will see method containsWhitespace(..).

Spring Framework provides a rich set of methods in StringUtils class. The methods provided by this class can be used as utility.

This method returns true if input String is not null, length is greater than 0 and it contains atleast one whitespace (Space separator, paragraph separator, line feed, form feed, carriage returns, file separator, etc.).

Now this method is overloaded as hasText and hasLength. One version has input parameter CharSequence and another has String.

Below is the implementation for String parameter.

**public** **static** **boolean** containsWhitespace(String str) {

**return** *containsWhitespace*((CharSequence) str);

}

Below is implementation of CharSequence parameter.

**public** **static** **boolean** containsWhitespace(CharSequence str) {

**if** (!*hasLength*(str)) {

**return** **false**;

}

**int** strLen = str.length();

**for** (**int** i = 0; i < strLen; i++) {

**if** (Character.*isWhitespace*(str.charAt(i))) {

**return** **true**;

}

}

**return** **false**;

}

The implementation is pretty straight forward. It calls method hasLength(..). If the input parameter is not null and has length greater than 0 then if condition is not executed.

The for loop takes every character from CharSequence using charAt(int index) method and checks for whitespace. If it exists then return true.

If there are no white spaces then if condition is not executed at all. It will return false after for loop terminates.

Below is the piece of code that uses containsWhitespace(..) method. Both of overloaded versions are written.

**package** stringutils;

**import** org.springframework.util.StringUtils;

**public** **class** SpringContainsWhiteSpaceDemo {

**public** **static** **boolean** whiteSpaceDemo(String str) {

**boolean** containsWhiteSpace = StringUtils.*containsWhitespace*(str);

**return** containsWhiteSpace;

}

**public** **static** **boolean** whiteSpaceDemo(CharSequence str) {

**boolean** containsWhiteSpace = StringUtils.*containsWhitespace*(str);

**return** containsWhiteSpace;

}

}

Below are the test cases for same.

**package** stringutils;

**import** junit.framework.Assert;

**import** org.junit.Test;

**public** **class** SpringContainsWhiteSpaceDemoTestCase {

@Test

**public** **void** testWhiteSpaceStringNull() {

Assert.*assertFalse*(SpringContainsWhiteSpaceDemo.*whiteSpaceDemo*(**null**));

}

@Test

**public** **void** testWhiteSpaceString() {

Assert.*assertFalse*(SpringContainsWhiteSpaceDemo.*whiteSpaceDemo*(""));

}

@Test

**public** **void** testWhiteSpaceStringSingleLength() {

Assert.*assertFalse*(SpringContainsWhiteSpaceDemo.*whiteSpaceDemo*("a"));

}

@Test

**public** **void** testWhiteSpaceStringName() {

Assert.*assertFalse*(SpringContainsWhiteSpaceDemo.*whiteSpaceDemo*("John"));

}

@Test

**public** **void** testWhiteSpaceStringFullName() {

Assert.*assertTrue*(SpringContainsWhiteSpaceDemo.*whiteSpaceDemo*("John Doe"));

}

//-----------------------------------------------------------------------------------

@Test

**public** **void** testWhiteSpaceCharSequenceNull() {

StringBuilder sb=**new** StringBuilder();

sb=**null**;

Assert.*assertFalse*(SpringContainsWhiteSpaceDemo.*whiteSpaceDemo*(sb));

}

@Test

**public** **void** testWhiteSpaceCharSequence() {

StringBuilder sb=**new** StringBuilder("");

Assert.*assertFalse*(SpringContainsWhiteSpaceDemo.*whiteSpaceDemo*(sb));

}

@Test

**public** **void** testWhiteSpaceCharSequenceSingleLength() {

StringBuilder sb=**new** StringBuilder("a");

Assert.*assertFalse*(SpringContainsWhiteSpaceDemo.*whiteSpaceDemo*(sb));

}

@Test

**public** **void** testWhiteSpaceCharSequenceName() {

StringBuilder sb=**new** StringBuilder("John");

Assert.*assertFalse*(SpringContainsWhiteSpaceDemo.*whiteSpaceDemo*(sb));

}

@Test

**public** **void** testWhiteSpaceCharSequenceFullName() {

StringBuilder sb=**new** StringBuilder("John Doe");

Assert.*assertTrue*(SpringContainsWhiteSpaceDemo.*whiteSpaceDemo*(sb));

}

}