



# UNIVERSITÀ DEGLI STUDI DI SALERNO

**Ingegneria, Gestione ed Evoluzione del Software**

**Test Case Specification**

**cASpER**

**Raimondo Rapacciolo 0522501266**

# Contents

<b>1</b>		<b>1</b>
1.1	Test Case Specification . . . . .	1
1.1.1	BeanDetectionTest . . . . .	1
1.1.2	StructuralBlobStrategyTest . . . . .	2
1.1.3	TextualBlobStrategyTest . . . . .	2
1.1.4	TextualBlobStrategyTest . . . . .	2
1.1.5	StructuralFeatureEnvyStrategy . . . . .	2
1.1.6	TextualFeatureEnvyStrategy . . . . .	3
1.1.7	StructuralMisplacedClassStrategy . . . . .	3
1.1.8	TextualMisplacedClassStrategy . . . . .	3
1.1.9	StructuralPromiscuousPackageStrategy . . . . .	3
1.1.10	TextualPromiscuousPackageStrategy . . . . .	4
1.1.11	SplitClassTest . . . . .	4
1.1.12	SplitPackagesTest . . . . .	4
1.1.13	DeepLearningStrategyTest . . . . .	4

# List of Figures

# List of Tables

1.1	Test Suite post modifica . . . . .	1
-----	------------------------------------	---

# Chapter 1

## 1.1 Test Case Specification

Dopo le modifiche alla versione attuale di cASpER la test suite è composta come segue:

Nome Classe	Metodi test
BeanDetectionTest	1
StructuralBlobStrategyTest	5
TextualBlobStrategyTest	4
StructuralFeatureEnvyStrategyTest	4
TextualFeatureEnvyStrategyTest	4
StructuralMisplacedClassStrategyTest	4
TextualMisplacedClassStrategyTest	4
StructuralPromiscuousPackageStrategyTest	4
TextualPromiscuousPackageStrategyTest	4
StructuralFeatureEnvyStrategyTest	4
TextualFeatureEnvyStrategyTest	4
SplitClassTest	2
SplitPackagesTest	2
DeepLearningStrategyTest	3

Table 1.1: Test Suite post modifica

### 1.1.1 BeanDetectionTest

Pre: MethodBean e ClassBean creati

ID	Nome	Input	Output Atteso
1.1	isBean()	-	true

### 1.1.2 StructuralBlobStrategyTest

Pre-requisiti: PackageBean, ClassBean, ClassBeanList, MethodBean, MethodBeanList creati

ID	Nome	Input	Output Atteso
2.1	isSmellyTrue()	-	true
2.2	isSmellyNearThreshold	-	true
2.3	isSmellyMinThreshold	-	false
2.4	isSmellyTrueControl()	-	true
2.5	isSmellyFalse()	-	false

### 1.1.3 TextualBlobStrategyTest

Pre-requisiti: PackageBean, ClassBean, ClassBeanList, MethodBean, MethodBeanList creati

ID	Nome	Input	Output Atteso
3.1	isSmellyTrue()	-	true
3.2	isSmellyNearThreshold	-	true
3.3	isSmellyMinThreshold	-	false
3.4	isSmellyFalse()	-	false

### 1.1.4 TextualBlobStrategyTest

Pre-requisiti: PackageBean, ClassBean, ClassBeanList, MethodBean, MethodBeanList creati

ID	Nome	Input	Output Atteso
4.1	isSmellyTrue()	-	true
4.2	isSmellyNearThreshold	-	true
4.3	isSmellyMinThreshold	-	false
4.4	isSmellyFalse()	-	false

### 1.1.5 StructuralFeatureEnvyStrategy

Pre-requisiti: PackageBean, ClassBean, ClassBeanList, MethodBean, MethodBeanList creati

ID	Nome	Input	Output Atteso
5.1	isSmellyTrue()	-	true
5.2	isSmellyNearThreshold	-	true
5.3	isSmellyMinThreshold	-	false
5.4	isSmellyFalse()	-	false

### 1.1.6 TextualFeatureEnvyStrategy

Pre-requisiti: PackageBean, ClassBean, ClassBeanList, MethodBean, MethodBeanList creati

ID	Nome	Input	Output Atteso
6.1	isSmellyTrue()	-	true
6.2	isSmellyNearThreshold	-	true
6.3	isSmellyMinThreshold	-	false
6.4	isSmellyFalse()	-	false

### 1.1.7 StructuralMisplacedClassStrategy

Pre-requisiti: PackageBean, ClassBean, ClassBeanList, MethodBean, MethodBeanList creati

ID	Nome	Input	Output Atteso
7.1	isSmellyTrue()	-	true
7.2	isSmellyNearThreshold	-	true
7.3	isSmellyMinThreshold	-	false
7.4	isSmellyFalse()	-	false

### 1.1.8 TextualMisplacedClassStrategy

Pre-requisiti: PackageBean, ClassBean, ClassBeanList, MethodBean, MethodBeanList creati

ID	Nome	Input	Output Atteso
8.1	isSmellyTrue()	-	true
8.2	isSmellyNearThreshold	-	true
8.3	isSmellyMinThreshold	-	false
8.4	isSmellyFalse()	-	false

### 1.1.9 StructuralPromiscuousPackageStrategy

Pre-requisiti: PackageBean, ClassBean, ClassBeanList, MethodBean, MethodBeanList creati

ID	Nome	Input	Output Atteso
9.1	isSmellyTrue()	-	true
9.2	isSmellyNearThreshold	-	true
9.3	isSmellyMinThreshold	-	false
9.4	isSmellyFalse()	-	false

### 1.1.10 TextualPromiscuousPackageStrategy

Pre-requisiti: PackageBean, ClassBean, ClassBeanList, MethodBean, MethodBeanList creati

ID	Nome	Input	Output Atteso
10.1	isSmellyTrue()	-	true
10.2	isSmellyNearThreshold	-	true
10.3	isSmellyMinThreshold	-	false
10.4	isSmellyFalse()	-	false

### 1.1.11 SplitClassTest

Pre-requisiti: PackageBean, ClassBean, ClassBeanList, MethodBean, MethodBeanList creati

ID	Nome	Input	Output Atteso
11.1	splitTrue()	-	true
11.2	splitFalse	-	true

### 1.1.12 SplitPackagesTest

Pre-requisiti: PackageBean, List<PackageBean>, system, ClassBean, MethodBean, MethodBeanList creati

ID	Nome	Input	Output Atteso
12.1	splitTrue()	-	true
12.2	splitFalse	-	true

### 1.1.13 DeepLearningStrategyTest

Pre-requisiti: ClassBean e Vector<String>, metrics e wrongMetrics creati

ID	Nome	Input	Output Atteso
13.1	correctMetricsParameter()	-	true
13.2	voidMetricsParameter()	-	false
13.3	wrongMetricsParameter()	-	false