

Test Document - Students Performance Evaluation System

Test Suite: TS-01

Test Suite name: Grade Evaluator Tests

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System version: 1.0.0

Description

This document describes the test cases to validate the functionality of the Students Performance Evaluation System, based on each student's grade. The code was implemented with the GradeEvaluator class, which has the eval() method responsible for classifying the student's performance based on the provided grade.

Objective

The objective of this test suite is to verify whether the system correctly calculates the student's performance according to their grade. Tests will be conducted to ensure that the system's conditions are being met correctly.

Requirements

- IntelliJ IDEA or other IDE
- Java 8+
- JUnit4
- The system must be accessible and operational
- The system must correctly classify the student's performance
- Access to the test files is required

Test Cases

Test Case	Description	Input	Expected Result	Obtained Result	Correction needed?	Observation
shouldReturn ExcelenteFor GradesBetween90and100	Check when the notes are between 90 and 100	new Student("Adrian", 100), new Student("Bruno", 95) new Student("Carlos", 90)	"Excelente" "Excelente" "Excelente"	"Excelente" "Excelente" "Excelente"	No	Test result in success
shouldReturn BomForGradesBetween75and89	Check when the notes are between 75 and 89	new Student("Daniel", 89) new Student("Ester", 80) new Student("Fabio", 75)	"Bom" "Bom" "Bom"	"Bom" "Bom" "Bom"	No	Test result in success
shouldReturn RegularForGradesBetween50and74	Check when the notes are between 50 and 74	new Student("Gabriel", 74) new Student("Heitor", 70) new Student("Isaias", 50)	"Regular" "Regular" "Regular"	"Regular" "Regular" "Regular"	No	Test result in success
shouldReturn InsuficienteForGradesBetween30And49	Check when the notes are between 30 and 49	new Student("Julio", 49) new Student("Kaiane", 35) new Student("Lucas", 30)	"Insuficiente" "Insuficiente" "Insuficiente"	"Insuficiente" "Insuficiente" "Insuficiente"	No	Test result in success
shouldReturn ReprovadoForGradesBelow30	Check when the grade are less than 30	new Student("Marcos", 29) new Student("Natan", 15)	"Reprovado" "Reprovado" "Reprovado"	"Reprovado" "Reprovado" "Reprovado"	No	Test result in success
shouldThrow ExceptionFor GradesAbove 100	Check when the grade are above 100	new Student("Oseias", 101)	"Número maior que o permitido"	"Número maior que o permitido"	No	Test result in success
shouldThrow ExceptionFor GradesBelow 0	Check when the grade are less than 0	new Student("Pedro", -1)	"Número menor que o permitido"	"Número menor que o permitido"	No	Test result in success