

Test Document - Student Performance Evaluation System

Test Suite: TS-01

Test Suite name: Student 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 Student Performance Evaluation System, based on each student's grade. The code was implemented with the `RelacaoNota` class, which has the `calcularNotas()` 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 case

Test case	Description	Input	Expected Result	Obtained Result	Correction Needed?	OBS
shouldReturnExcelenteForGradesBetween90and100	Check when the notes are between 90 and 100	new Aluno("Adrian", 100), new Aluno("Bruno", 95), new Aluno("Carlos", 90)	"Excelente"	Excelente	No	Test result in success
shouldReturnBomForGradesBetween75and89	Check when the notes are between 75 and 89	new Aluno("Daniel", 89), new Aluno("Ester", 80), new Aluno("Fábio", 75)	Bom	Bom	No	Test result in success
shouldReturnRegularForGradesBetween50and74	Check when the notes are between 50 and 74	new Aluno("Gabriel", 74), new Aluno("Heitor", 70), new Aluno("Isaias", 50)	"Regular"	Regular	No	Test result in success
shouldReturnInsuficienteForGradesBetween30and49	Check when the notes are between 30 and 49	new Aluno("Julio", 49), new Aluno("Kaine", 35), new Aluno("Lucas", 30)	Insuficiente	Insuficiente	No	Test result in success
shouldReturnReprovadoForGradesBelow30	Check when the grade is less than 30	new Aluno("Marcos", 29), new Aluno("Nathan", 15)	Reprovado	Reprovado	No	Test result in success
shouldThrowExceptionForGradesAbove100	Check when the grade is above 100	new Aluno("Oseias", 101)	"Número maior que permitido"	"Número maior que permitido"	No	Test result in success

Test case

Test case	Description	Input	Expected Result	Obtained Result	Correction Needed?	OBS
shouldThrowExceptionForGradesBelow0	Check when the grade is less than 0	new Aluno("Pedro", -1)	"Número menor que permitido"	"Número menor que permitido"	No	Test result in success