AUTOMATED GRADING SYSTEM

BY

MASDA
(Group 1)

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- Corrected changes highlighted

Use Case (Corrected)

Use Case Name	Automated Grading System
Actors	Teaching Assistant, Professor and Grader
Goal	Return code coverage of JUnit test cases along with the analysis for the code coverage.
Precondition	The students have already submitted their codes and the Professor is ready to grade them. The file is accessible and the code has no compilation errors.
Outline Representation	The system returns the percentage of code coverage to the user(Grader) so that the user can grade the student.
Flow of events	1. The user (Grader) will indicate that he wants to grade the students' JAVA code. 2. The user(Grader) will pass the class name into the system. 3. Then user(Grader) will pass the method name into the system. 4. The system will analyze the code 5. The system outputs a percentage results of the class code covered and the percentage results of the method code covered. 6. The user(Grader) can grade the student based on the percentage of code covered. 7. The user(TA, Grader) can notify the student (and professor if needed) about the grading through different communication channels.
Alternate Flow/Exception	In case of any exceptions, the system generates an error log and alerts the user about the exception which the user can debug with the help of the generated error log. The user (TA, Professor & Grader) can also perform a verbose run where the system displays the evaluation trace for each of the class/method inputs.

- Corrected changes highlighted

Postcondition	The scores will be generated by the system in percentage. The analysis about the code(Class/Method Name, Coverage Percentage & Time Taken) will be shown on the screen or the user will get a report about the code. The target users (Students, Professors) will be notified through different communication channels.

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