Test Case – Grade Book

Part 1:
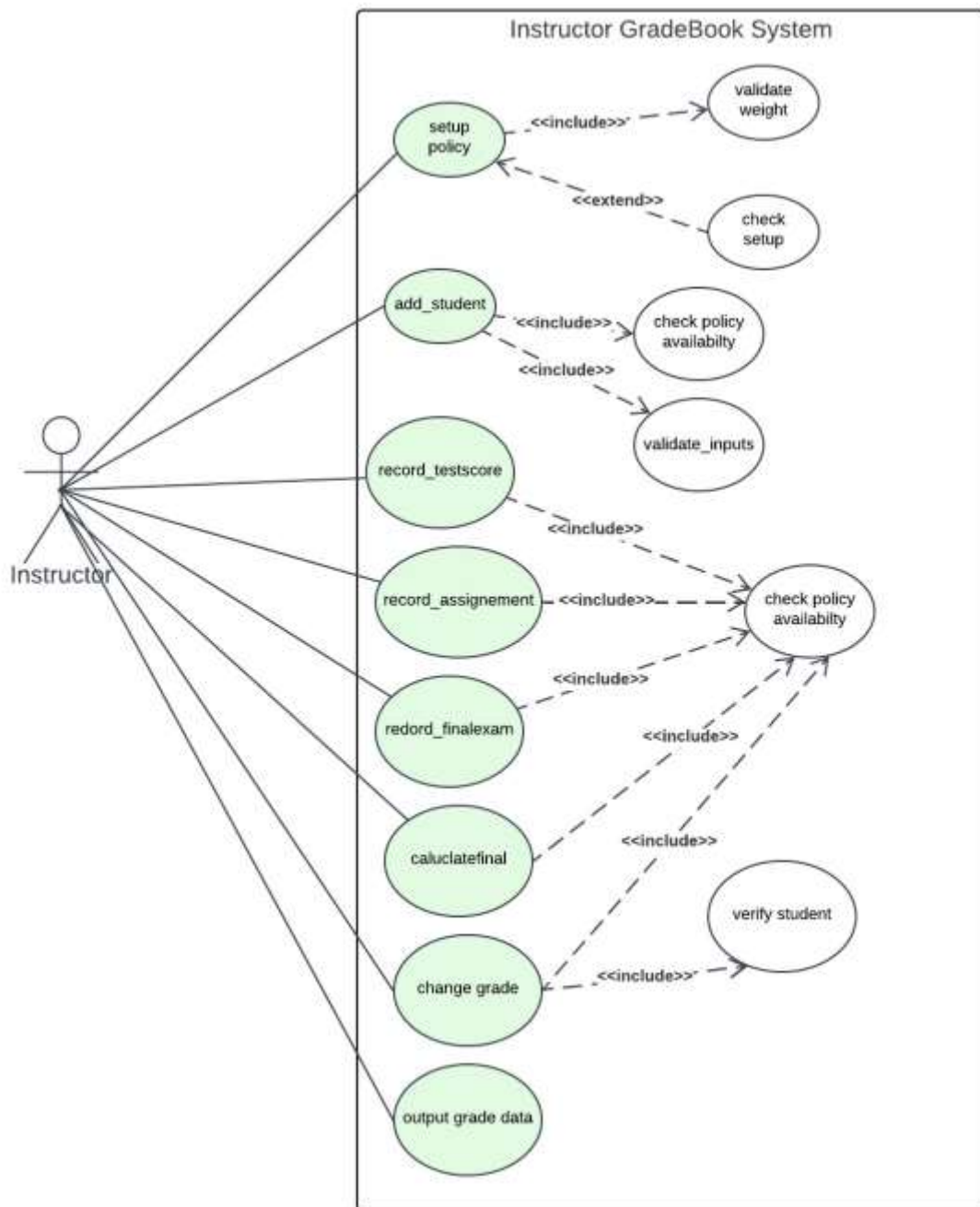
Part2:

Detailed Description

1. **Set Up New Semester**: Allows the instructor to establish the structure for a new semester, including the number of assignments, tests, and exams, along with their respective weights.
2. **Add a student**: Enables the instructor to add a new student's information, including their ID and name, to the system.
3. **Record Programming Assignment Grades**: Permits the instructor to enter grades for all students for a specific programming assignment.
4. **Record Test Grades**: Allows the instructor to input test scores for all students for a designated test.
5. **Record Final Exam Scores**: Enables the instructor to record scores for the final exam for all students.
6. **Change a Grade**: Provides the functionality for the instructor to modify a previously recorded grade for an assignment, test, or final exam.
7. **Calculate Final Scores**: Calculates final scores for all students based on the weighted averages of assignments, tests, and final exam scores.
8. **Output Grade Data**: Outputs the grade data sorted either alphabetically by student last name or by student ID in increasing order.