

### 1. Problem Domain:

In most school systems, there is a set of principles that must be carried out by teachers and administrators to ensure that class announcements, student grades, and information are securely posted within a web environment where each student can access it with READ ONLY permissions. The Florida State University uses a system, Blackboard, as a way to propagate changes to student grades and information. The system must consist of a minimum of three classes:

TeacherGrading -> PostingGrade -> StudentGrade

Due to the consistency of homework, quizzes, tests, and projects that are continuously given to students to complete, student grades are constantly changing. When these changes occur from various levels of a school system, there must be extensive impact analysis on the system.

The problem domain within our example would consist of three major classes, TeacherGrading, PostingGrade, and StudentGrade.

### 2. Initial Impact

The initial impact would be a method within TeacherGrading that gathers the data from the students. The method is in charge of grabbing information from many classes/students.

### 3. Propagating Class

The propagating class is PostingGrade. The class does not change. The format/logic from TeacherGrading has changed but PostingGrade is simply called from TeacherGrading. However, that change will cause StudentGrade to change as the grade gets updated within the database.

### 4. Neighbors

Neighbors within the Blackboard system are affected by the initial impact as StudentGrade calls the method within TeacherGrading. StudentGrade then updates the system with the new overall average.