

Software Design Document

Student Code Online Review and Evaluation (2.0)

S.C.O.R.E. (2.0) aims to enhance and extend the original S.C.O.R.E. application. Adding functionality in server connections, grading with rubrics, and cheat detections are all intentions to deploy the system into CSE classrooms.

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November 23, 2025

Table of Contents

Table of contents - 1

1. Introduction

2. System Architecture

2.a UML Diagrams

3. Web Application Interface Mockups

3.a Import Rosters Functionality

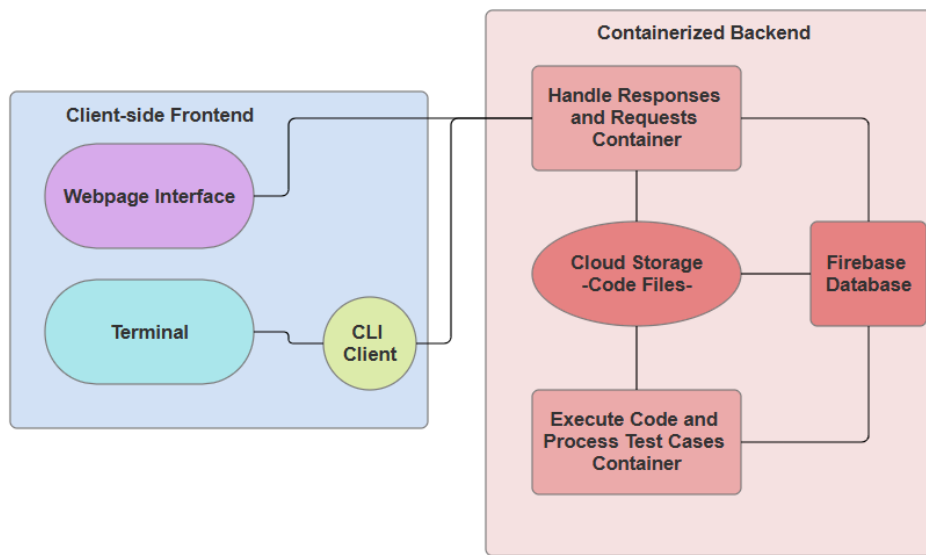
3.b Rubric Functionality

3.c Detect AI, Detect Collusion, Export Grades Features

1. Introduction

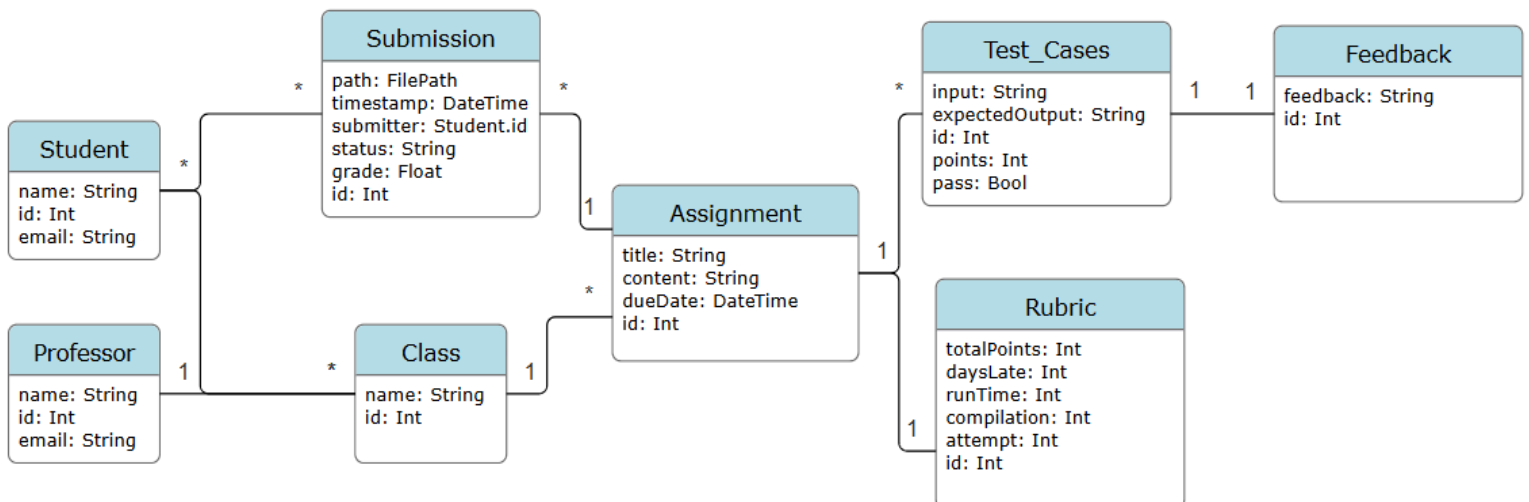
This document shows how the SCORE 2.0 additions will be designed. It contains the UML diagrams provided by the system architecture. The web application interface mockups will show the additions to the current pages, as well as entirely new pages, that showcase the introduced functionality.

2. System Architecture

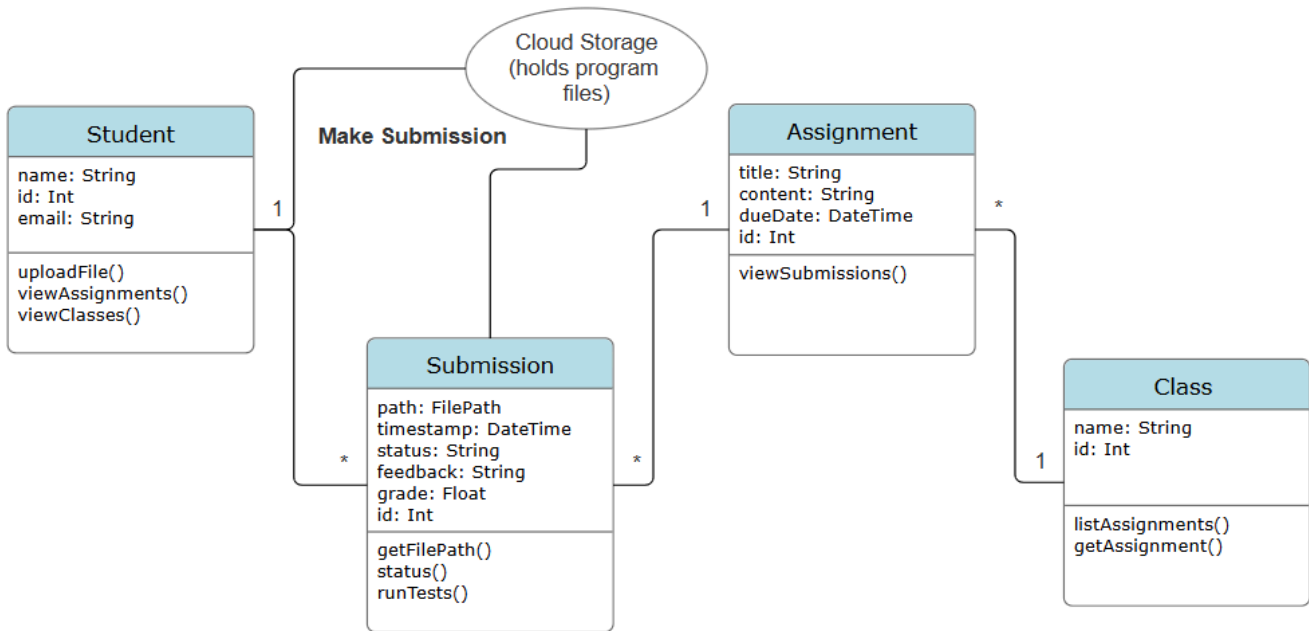


2.a UML Diagrams

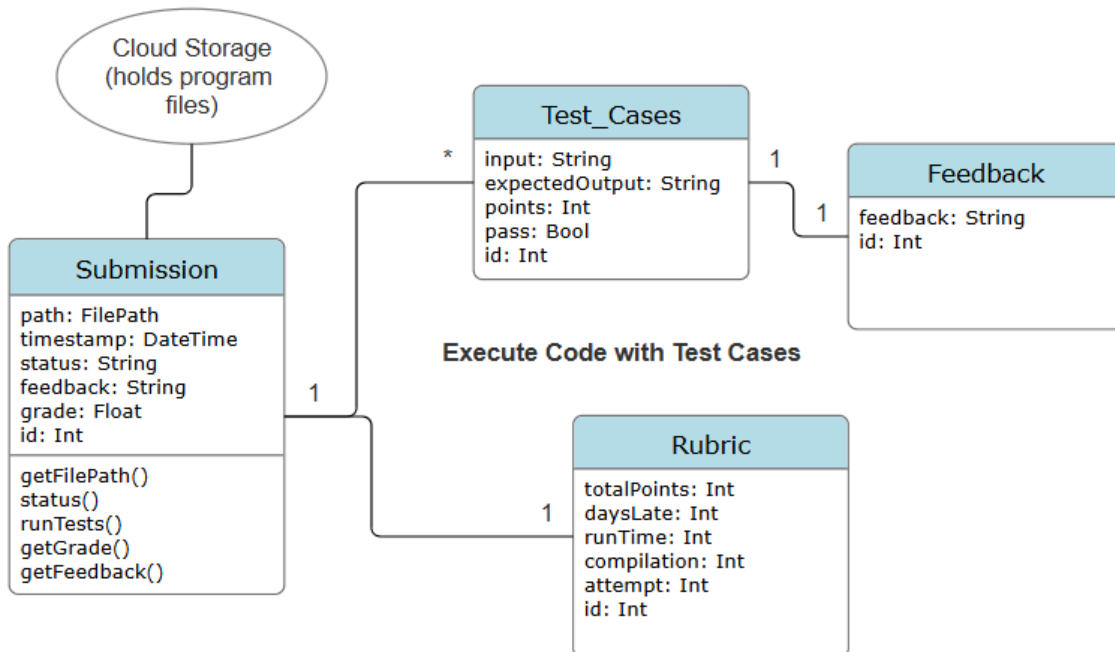
2.a.1 Generalized Database



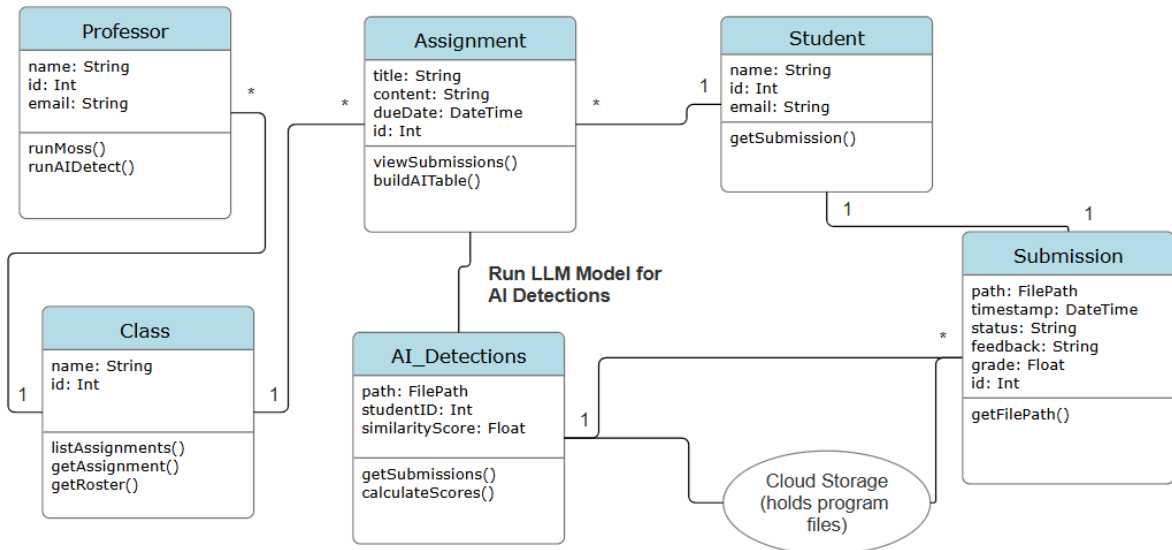
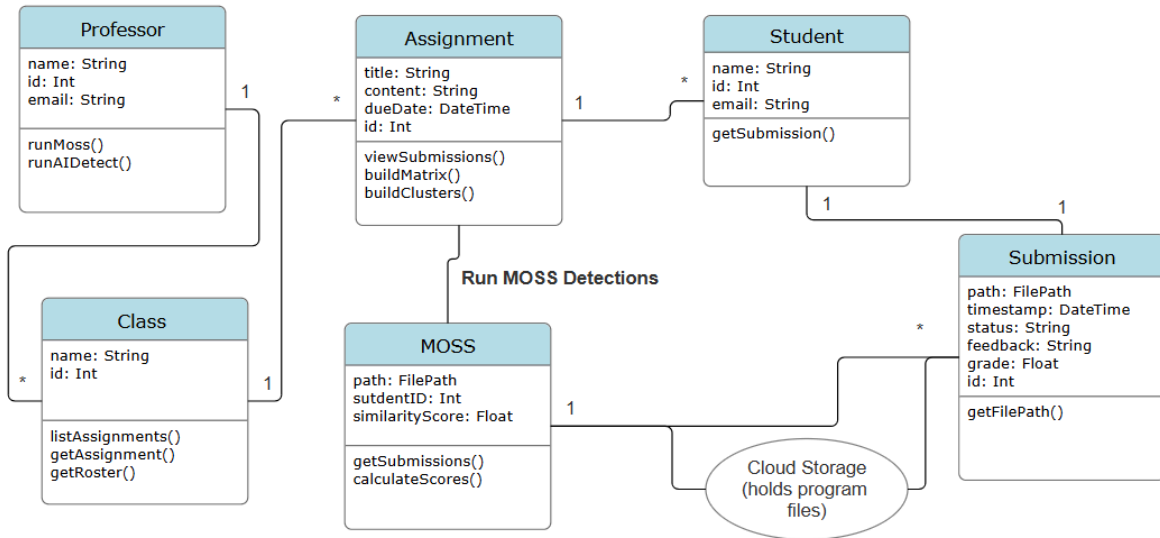
2.a.2 Submissions



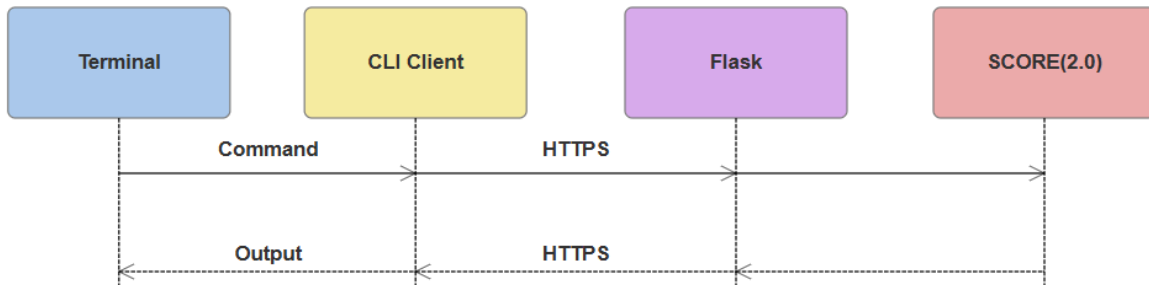
2.a.3 Grading with Feedback



2.a.4 Cheat Detections



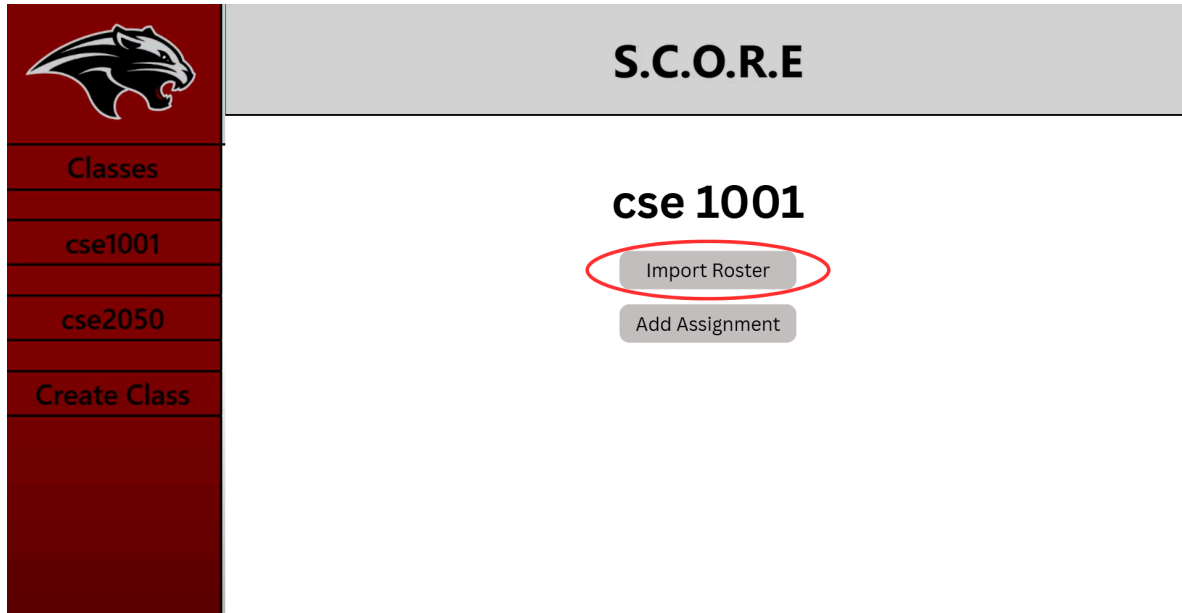
2.a.5 Command Line Interface Connection



3. Web Application Interface Mockups

All mockups are edited screenshots of the previous projects web interface. Additions/changes are circled red.

3.a Import Rosters Functionality



S.C.O.R.E

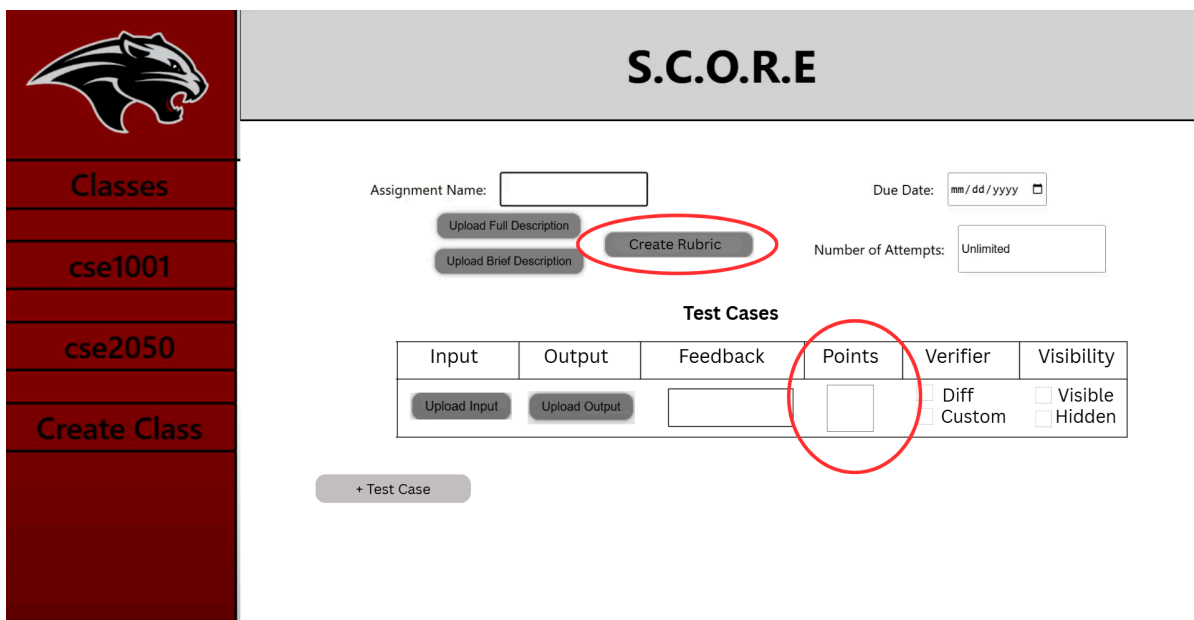
cse 1001

Import Roster

Add Assignment

3.b Rubric Functionality

3.b.1 Add rubric to an assignment / give an assignment's test cases points



S.C.O.R.E

Assignment Name: Due Date:


Upload Full Description Upload Brief Description **Create Rubric** Number of Attempts:

Test Cases

Input	Output	Feedback	Points	Verifier	Visibility
Upload Input	Upload Output	<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Diff <input type="checkbox"/> Custom	<input type="checkbox"/> Visible <input type="checkbox"/> Hidden

+ Test Case

3.b.2 Rubric Page



S.C.O.R.E

Classes

cse1001

cse2050


Create Class

Rubric for Assignment <Title>

Factors	Points
Total:	
Compilation:	
Attempt:	
Under __ seconds:	
After __ days, remove:	

Submit Rubric

3.c Detect AI, Detect Collusion, Export Grades Features



S.C.O.R.E

Classes

cse1001

cse2050


Create Class

Demo Submissions

Student Name	Student Email	Numeric Grade
Firstname Lastname	exampleemail@gmail.com	2/2

Run AI Checker Run Similarity Scores Export Grades

3.c.1 Click “Run AI Checker”



Classes

cse1001

cse2050

Create Class

S.C.O.R.E

Demo Submissions

Student Name	Student Email	Numeric Grade
Firstname Lastname	exampleemail@gmail.com	2/2

Run AI Checker


Run Similarity Scores

Export Grades

Set Threshold (1-100)

Run

3.c.2 Click “Run Similarity Scores”



S.C.O.R.E

Classes

cse1001

cse2050

Create Class

Demo Submissions

Student Name	Student Email	Numeric Grade
Firstname Lastname	exampleemail@gmail.com	2/2

Run AI Checker

Run Similarity Scores

Export Grades

Set Threshold (1-100)

Run

☐ Download Full Matrix
☐ Load Clusters Graph