

Software Design Document

Student Code Online Review and Evaluation

A terminal program and web-application for use in Florida Tech's CSE department to facilitate the submission of code for professor created assignments.

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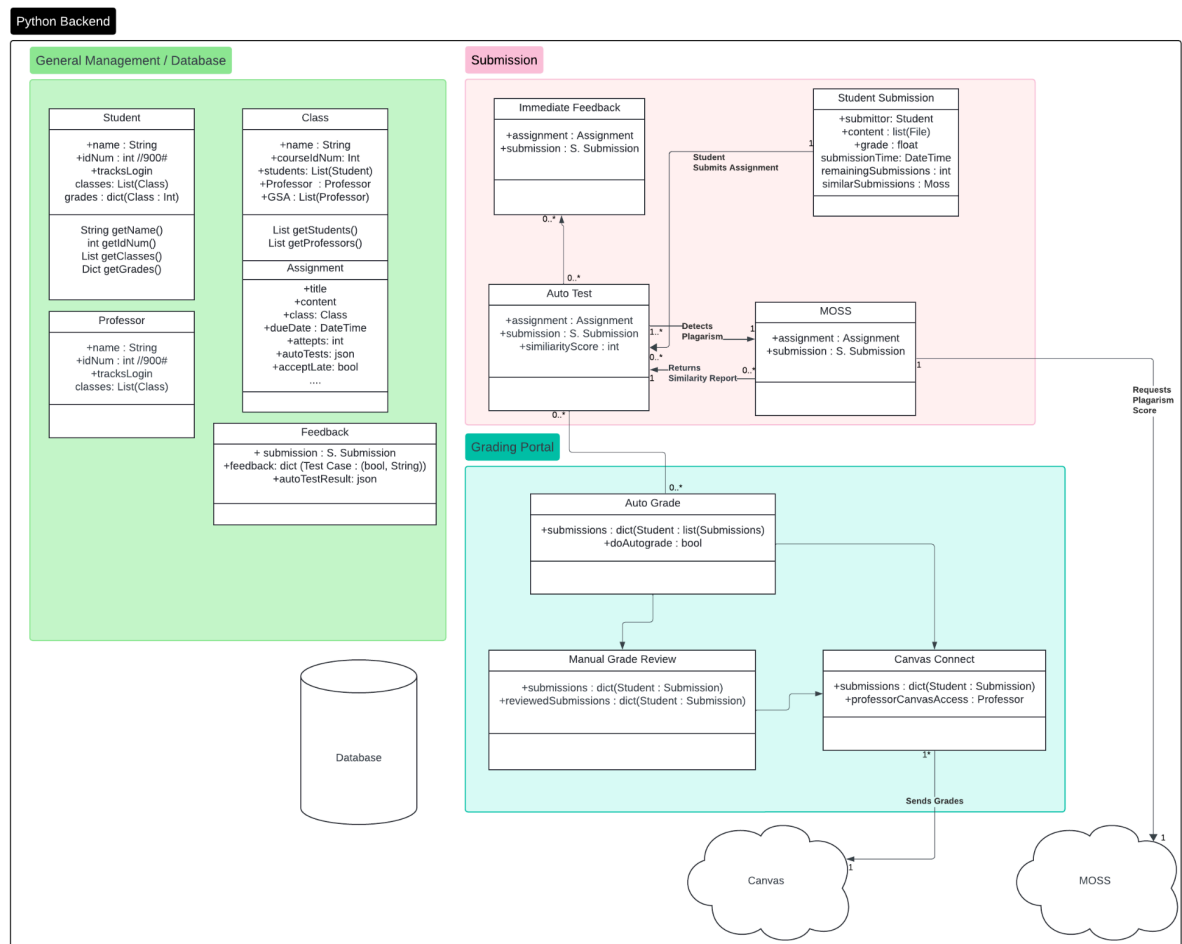
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1. Introduction

This document contains the design of the Student Code Online Review and Evaluation (SCORE) application. We start with system architecture by providing a UML diagram. This will showcase the main classes as well as their interactions with each other. We then provide mockups of the user interface within the web application. This provides a visual description of how this interface will be laid out. Then we provide an ER diagram to describe how the database will be created.

2. System Architecture

2.a UML Diagrams



General Management / Database

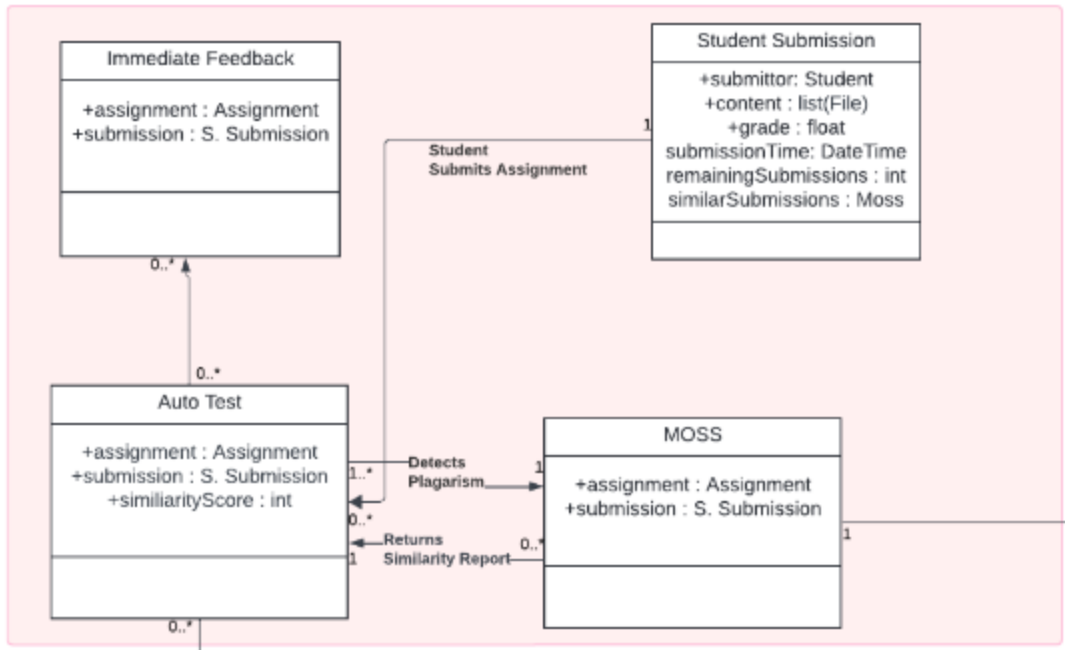
Student
+name : String +idNum : int //900# +tracksLogin classes: List(Class) grades : dict(Class : Int)
String getName() int getIdNum() List getClasses() Dict getGrades()

Professor
+name : String +idNum : int //900# +tracksLogin classes: List(Class)

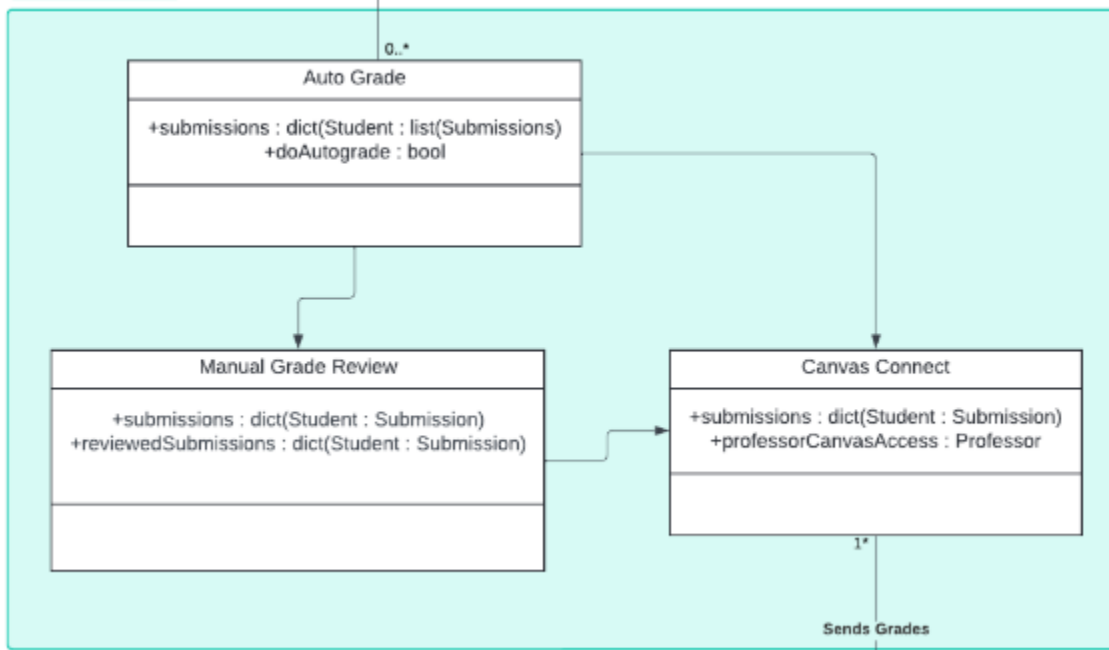
Class
+name : String +courseIdNum: Int +students: List(Student) +Professor : Professor +GSA : List(Professor)
List getStudents() List getProfessors()
Assignment
+title +content +class: Class +dueDate : DateTime +attempts: int +autoTests: json +acceptLate: bool

Feedback
+ submission : S. Submission +feedback: dict (Test Case : (bool, String)) +autoTestResult: json

Submission




Grading Portal




3. Web Application Interface Mockups


3.a. Student Dashboard

	S.C.O.R.E.	
Classes	CSE 1001	
	Assignment 2	Due: 9/13
	Submitted On: 9/9	Score: 8/10 Details v
	Description	
CSE 1001		
	Assignment 1	Due: 9/02
	Submitted On: 8/29	Score: 10/10 Details v
	Description	
CSE 1002		


3.b. Student Dashboard Expanded Feedback

 <h1>S.C.O.R.E.</h1>									
Classes	CSE 1001								
	<table border="1"> <tr> <td>Assignment 2</td> <td>Due: 9/13</td> </tr> <tr> <td>Submitted On: 9/9</td> <td>Score: 8/10 Details v</td> </tr> <tr> <td colspan="2"> <div> ✓ ✓ ✓ ✓ ✓ ✓ ✗ ✓ ✗ ✓ </div> </td> </tr> <tr> <td>Description</td> <td> <div>Feedback</div> </td> </tr> </table>	Assignment 2	Due: 9/13	Submitted On: 9/9	Score: 8/10 Details v	<div> ✓ ✓ ✓ ✓ ✓ ✓ ✗ ✓ ✗ ✓ </div>		Description	<div>Feedback</div>
	Assignment 2	Due: 9/13							
	Submitted On: 9/9	Score: 8/10 Details v							
<div> ✓ ✓ ✓ ✓ ✓ ✓ ✗ ✓ ✗ ✓ </div>									
Description	<div>Feedback</div>								
CSE 1002									
	<table border="1"> <tr> <td>Assignment 1</td> <td>Due: 9/02</td> </tr> <tr> <td>Submitted On: 8/29</td> <td>Score: 10/10 Details v</td> </tr> <tr> <td colspan="2">Description</td> </tr> </table>	Assignment 1	Due: 9/02	Submitted On: 8/29	Score: 10/10 Details v	Description			
Assignment 1	Due: 9/02								
Submitted On: 8/29	Score: 10/10 Details v								
Description									


3.c. Assignment Detail Page

 <h1>S.C.O.R.E.</h1>					
Classes	Assignment 2				
	<table border="1"> <tr> <td>Assigned: 9/6</td> <td>Due: 9/13</td> </tr> <tr> <td colspan="2">Description</td> </tr> </table>	Assigned: 9/6	Due: 9/13	Description	
	Assigned: 9/6	Due: 9/13			
	Description				
CSE 1001					
CSE 1002					
	<table border="1"> <tr> <td>Visible Test Cases</td> </tr> <tr> <td> <div>Submit</div> </td> </tr> </table>	Visible Test Cases	<div>Submit</div>		
Visible Test Cases					
<div>Submit</div>					


3.d. Assignment Submission Page

		S.C.O.R.E.	
Classes	Assignment 2		Attempt 2
	Assigned: 9/6	Due: 9/13	8/10
	Choose File to Upload		Submitted: 9/9
	<input type="text"/>		Attempt 1
	<input type="button" value="+ Add Another File"/>		8/10
CSE 1001	<input type="button" value="Submit"/>		Submitted: 9/7
CSE 1002			

3.e. Professor Dashboard

		S.C.O.R.E.	
Classes	CSE 1001		
	<input type="button" value="+ Create Assignment"/>		
	Assignment 2	Due: 9/13	
	View Student Submissions		
	Description		
CSE 1002	Assignment 1	Due: 9/02	
	View Student Submissions		
	Description		

3.f Assignment Creation



S.C.O.R.E.

Name:

Due Date:

Upload Description

Number of Attempts: ▼

Test Cases

Input	Output	Feedback	Visibility

+ New Test Case


Configure Auto Test

Classes

CSE 1001

CSE 1002

3.g. Grading Portal



S.C.O.R.E.

Name	View Submission	Score	Grade	Comments
Alan Turing	View	8/10	8/10	
Donald Knuth	View	9/10	9/10	
John Neumann	View	6/10	6/10	
Ada Lovelace	View	9/10	9/10	
⚠ Edsger Dijkstra	View	10/10	10/10	
Noam Chomsky	View	4/10	4/10	
⚠ John Backus	View	7/10	7/10	

Classes

CSE 1001

CSE 1002

4. Database design

4.a ER Diagram

