

Student Code Online Review and Evaluation 2.0

Shamik Bera, Dorothy Ammons, Patrick Kelly, Rakan Alsharif
 Faculty Advisor(s): Dr. Raghuv eer Mohan, Dept. of Electrical Engineering and Computer Science, Florida Institute of Technology

Goals

The goal of this second rendition to S.C.O.R.E is to enhance the application by adding features such as cheating detection (including collusion and AI detection), importing rosters, grade exporting, and customizable rubrics for automated grading.

Motivations

To resolve areas that are lacking in the previous version, including but not limited to:

- Ease of development
- Tools related to Canvas implementation
- Tools to customize the grading process: rubrics, cheat detections

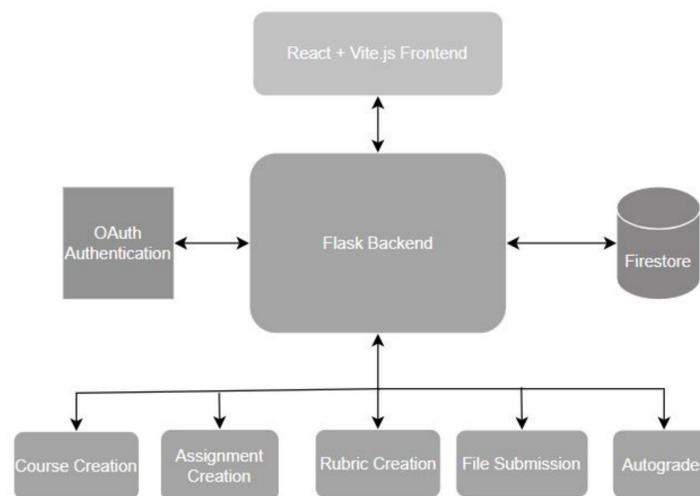
Implementation

- Web app: React + [Node.js](#) + Vite
- Database: Firestore
- Backend: Flask + Python
- Auto test management: Python

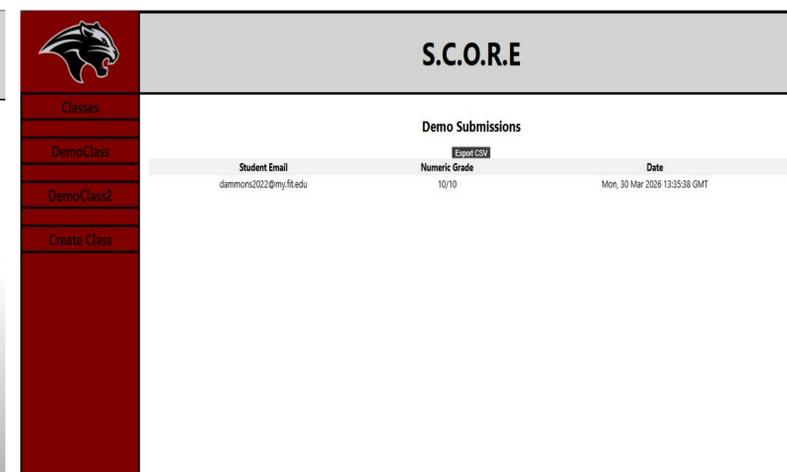
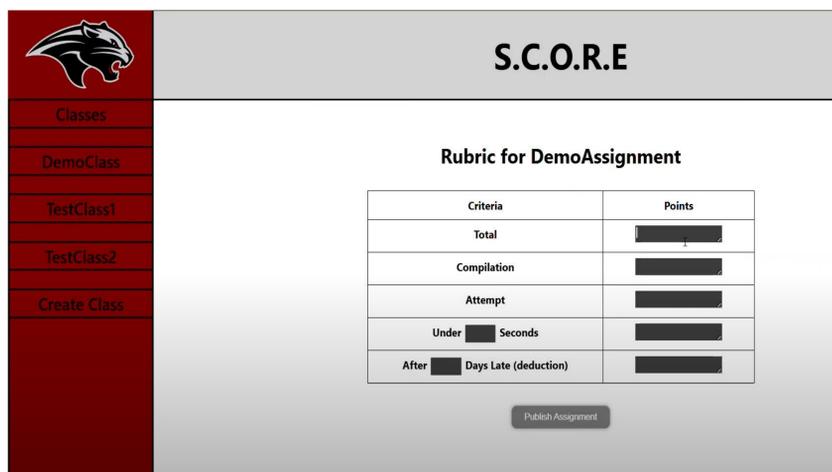
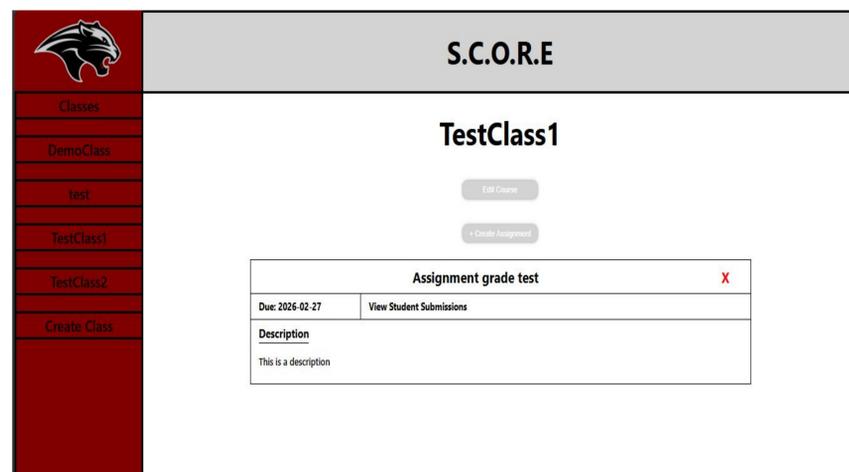
Features

- Google OAuth login
- AI and Collusion detection
- Automated rubric based grading:
 - Late penalties
 - Point allocations
- Canvas style roster importing
- Canvas style grade exporting

System Architecture



Web Interface



Evaluation

Future Improvements

- Hosting provided by Florida Institute of Technology
- Improved AI detection and visuals
- Improved collusion detection and visuals
- CMD Line interface

Limitations

- Limited coding languages supported
- Single file submissions
- Restricted threads allowed for autograding
- Stored submission files are limited