Gradel

Brennon Gee  
*Cedarville University*, brennongee@cedarville.edu

Malachi Marshall  
*Cedarville University*, malachiamarshall@cedarville.edu

Nathan Barlow  
*Cedarville University*, nathanbarlow@cedarville.edu

James Osborne  
*Cedarville University*, josborne@cedarville.edu

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A major problem facing Computer Science faculty members at Cedarville University is grading student assignments. Specifically, grading programming assignments can be a repetitive, time-consuming process which makes it prime for automation. Professors need a web application that takes student code, compiles it, and compares the output to what the professors provides as correct. Gradel, a senior design project, allows students to submit their code online and receive instant feedback based on professor-designed test cases. Furthermore, professors need to be able to keep track of what grades students earn on their projects, which is functionality Gradel provides. In addition to allowing professors to create courses for typical class use, Gradel also allows professors to create contests, such as the annual programming competition that takes place on campus every year. Gradel has been used for several sections of a class and this year’s contest, and the results are extremely promising.