



PrairieLearn

sdmay24-33

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Project Goal

Our project is to make a more intuitive learning experience that allows students to answer questions created through the website, and eventually automatically grade them.

E1: Exam Design: Best Practices

Real-time grading has been disabled for this assessment. You will not be able to grade your submissions as you go.

Total points: 25/80




Assessment is **closed** and you cannot answer questions.

For this quiz you can use the [formula sheet](#).

| Question | Submission status | Points |
|-------------------------------|-------------------|---------|
| Fundamental questions | | |
| Question 1 | unanswered | 0 / 25 |
| Question 2 | 100% | 25 / 25 |
| Intermediate questions | | |
| Question 3 | unanswered | 0 / 10 |
| Question 4 | unanswered | 0 / 10 |
| Advanced questions | | |
| Question 5 | unanswered | 0 / 5 |
| Question 6 | unanswered | 0 / 5 |

- Submit your answer to each question with the **Save** button on the question page.
- When you are done, please logout and close your browser; there is no need to do anything else. Your saved answers will be automatically graded when your final score is computed.

Requirements

- Have the created problems be autograded accurately in order to make the learning process smooth for the students
 - Creating questions for exams and homework assignments must be a process that is easy to complete for instructors
 - Creating courses for students to join and complete assignments filled with questions
 - Integrate microcontroller emulators into the testing environment to accurately simulate the results of the answers given by the students.
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Standards



- IEEE 610 Standard Glossary of Software Engineering Terminology
- IEEE 830 Software Requirements Specifications
- IEEE 1016 Software Design Description
- IEEE 1074 Software Development Life Cycle
- IEEE 2050 RTOS for embedded systems standard
- Programming Languages: Python, Javascript, C



Uses

- Professor Jones and the CPR E 288 classes benefit from our project, as they would use our results to have an alternative to their homeworks with the autograder.
- An instructor needs to be able to:
 - Create courses for students to register for.
 - Add exams and homework assignments.
 - Create questions for both the exams and homework assignments they create.
- A student must be able to:
 - Register for courses.
 - View the grades they receive on these exams and homework assignments.