

Mines Capstone Proposal: End-to-End Testing Suite for E-Learning Course Management Dashboard

Overview:

The objective of this project is to develop a comprehensive end-to-end testing suite for an e-learning course management dashboard using the Cypress testing framework. The testing suite will cover all the major functionalities of the dashboard and ensure that the web application is fully functional and user-friendly. The team will be composed of 3 to 5 students. The project is expected to run from May 15th – June 16th, but project scope may be adjusted pending final team size and overall velocity.

Project Deliverables:

End-to-end testing suite: The team will develop a comprehensive end-to-end testing suite using Cypress. The testing suite will cover all the major functionalities of the e-learning course management portal, including user registration, course creation, course management, user permissions, and reporting.

Test cases: The team will write test cases to ensure that the portal is fully functional and user-friendly. The test cases will cover different scenarios and edge cases to ensure that the portal can handle different types of user inputs and situations.

Test automation: The team will automate the testing process using Cypress, ensuring that the testing suite can be executed in a consistent and reliable manner.

Documentation: The team will create documentation for the testing suite, including test case documentation, automation scripts, and user manuals.

Requirements/Recommendations:

Experience with object-oriented languages (Java, C++) is highly recommended as the testing suite will be organized using class-based structures.

Knowledge or experience with scripting languages such as Python and JavaScript is recommended, but not required.

Knowledge of JavaScript frameworks such as Nodejs or Cypress is a huge plus, but not required.

About Regis:

The Regis Company is a SaaS company building AI tools to accelerate the design and development of experiential learning. Headquartered in beautiful downtown Golden, Colorado, we deliver products with global reach. To date, we've empowered over 1.2 million learners across six continents and earned more than 50 awards, including Best Advance in Leadership Simulation Tools, Excellence in Executive Education, Best Advance in Gaming or Simulation Technology, and so much more. From building your own simulations to off-the-shelf solutions, we uniquely empower learning leaders to easily create and deliver learning solutions perfectly aligned with their learning objectives.