An Instant Grading Tool for Sophisticated Course Projects

This project involves the construction of an interactive project tutoring tool, APOGEE, and a collection of companion laboratory modules. APOGEE adopts a trial-and-failure teaching strategy. Students can submit projects multiple times to APOGEE before a deadline. Each temporary submission is graded instantly, with each project requirement evaluated fairly and consistently by APOGEE. Any failure scenario is displayed to students interactively online, step by step. Students learn from failures, refine project design, and resubmit. The cyclic improvement model can greatly enrich students' learning experience without burdening faculty in grading.

Automatic Project Grading and Rapid Feedback System for Web Programming
1. Elevate Faculty Productivity
2. Improve Student Learning Process

Professor Can...
1. Manage Class Setting
2. Define Project Spec.
3. Testing Cases
4. View Grading Reports

Students Can...
1. Submit Projects
2. Get Instant feedback
3. View Grading Reports
4. Challenge Other Students (future work)

Conclusion
Easy To Use
Elevate Faculty Productivity
Enriched Learning Experience

Collaborative Research: A Trial-and-Failure Project Tutoring System

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