



PrairieLearn

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Unit Testing

- Individual Questions
- Grading
- Security



Interface Testing

- 3 File Types
 - Json
 - Html
 - Python

- Assignments



Integration Testing

- Individually Testing Questions
- Fully Functional before being placed into an assignment



System Testing

- Full Assignment Testing
- Repetitive Testing due to Randomness



Regression Testing

- New additions in own container
- Keeping components Scalable







Acceptance Testing

- Test code standards adherence
- Manual testing of course assessments
 - Randomized questions
 - Auto grading



Security Testing

- Server
 - Firewall
 - MFA
- User
 - HTTPS
 - Data encryption
 - Okta / OAuth2



Results

Finished questions

- PrairieLearn automatically finds code errors
- Display and auto grade errors were easy to catch

Non-software

- Advisor help
- Question format testing

