

CS 4300/5300 Software Engineering

Sprint 3 Requirements

1 Sprint 3 Objectives

Requirement	Points
Individually - Delivered Peer Feedback	12 pts
Project in GitHub	0 pts
Features with tests	30 pts
80% Test coverage metrics	13 pts
CI Pipeline:	
AI Code Review using OpenAI Platform (each Pull Request)	2.5 pts
Running automated tests (each commit)	2.5 pts
Reports test coverage metrics in console (each commit)	2.5 pts
NEW: PyLint and/or Flake8: Linting scans w/ reports	15 pts
NEW: Dependabot: Dependency Vulnerability Scans w/ reports	15 pts
Deployed to a production environment:	
NEW: Custom domain name (no subdomains unless you own TLD)	5 pts
CD Pipeline that runs when code is merged into main	2.5 pts
Total	100 pts

2 Detailed Requirements

2.1 Individually - Delivered Peer Feedback (12 pts)

Each team member must deliver constructive peer feedback to teammates.

2.2 Project in GitHub (0 pts)

Your project must continue to be maintained in GitHub (no points assigned this sprint as this is now expected).

2.3 Features with Tests (30 pts)

All features developed during this sprint must have comprehensive tests. This requirement carries increased weight to emphasize the importance of well-tested features.

2.4 80% Test Coverage Metrics (13 pts)

Your test suite must maintain at least 80% code coverage.

2.5 CI Pipeline (37.5 pts total)

Your continuous integration pipeline must include:

- **AI Code Review (2.5 pts):** Using OpenAI Platform for each Pull Request

- **Automated Tests (2.5 pts):** Running automated tests for each commit
- **Coverage Reports (2.5 pts):** Reports test coverage metrics in console for each commit
- **NEW: Linting (15 pts):** PyLint and/or Flake8 linting scans in CI pipeline with reports
- **NEW: Dependency Scans (15 pts):** Dependabot dependency vulnerability scans in CI pipeline with reports

2.6 NEW: Custom Domain (5 pts)

Your application must be deployed to a production environment with a custom domain name. No subdomains are allowed unless you own the top-level domain.

2.7 CD Pipeline (2.5 pts)

Code must continually be deployed to production environment using GitHub Actions when merged into main.

See the Common Sprint Requirements document for planning, development, demo, and submission requirements.