

# 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
<b>CI Pipeline:</b>	
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
<b>NEW:</b> PyLint and/or Flake8: Linting scans w/ reports	15 pts
<b>NEW:</b> Dependabot: Dependency Vulnerability Scans w/ reports	15 pts
<b>Deployed to a production environment:</b>	
<b>NEW:</b> Custom domain name (no subdomains unless you own TLD)	5 pts
CD Pipeline that runs when code is merged into main	2.5 pts
<b>Total</b>	<b>100 pts</b>

### 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.*