

Project Overview

CS 272 Software Development

Search Engine Components

- Implement building from **stemmed text files**
- Implement **data structure** that supports search } 1
- Implement **search** algorithm } 2
- Implement **multithreading** for efficiency } 3
- Implement building from **web pages**
- Implement **search engine front-end** interface } 4

Project Overview

#	Project	Assignments (200 points per project)	Reviews
1	Inverted Index	Tests, Review 1, Review 2, Design	4 – 5
2	Partial Search	Tests, Review 1, Review 2, Design	3 – 4
3	Multithreading	Tests, Review 1, Review 2, Design	2 – 3
4	Search Engine	Tests, Search Engine Demo/Code Review*	1*

**Graded during finals week during a special code review (instead of a final exam)*



Project Assignments

Points	Assignment	Deadline	Requirements
100	Tests	Due 3 weeks after assigned	Tests Only
30	Review 1	Due 1 week after tests due	Tests, Style, 30m Review
20	Review 2	Due 2 weeks after tests due	Tests, Style, 15m Review
50	Design	Due 3 weeks after tests due	Passed Code Review

You may need additional code reviews to earn design grade; only receive credit for first two!



Test Grades

- Earned when pass 100% of tests on GitHub Actions
- Lose 2 points per 24 hours
- Must also pass tests before every code review!

Review Grades

- Earned when attend a code review with the instructor
- Lose 2 points per 24 hours
- Late penalty includes weekends!



Code Reviews

- One-on-one appointments with instructor via Zoom
 - Local recording is allowed; in person on request
 - First review is 30 minutes, all others 15 minutes
- Cover as much as possible in appointment
- Will be given improvements to make to the code design
- May have up to 30 minutes of code reviews every 5 days*

**You are not guaranteed a code review every 5 days!*



Design Grades

- Must fully pass the code review process
 - Instructor will tell you when you reach this mark
 - Usually takes **2 to 5 code reviews** per project
- Must create "final release" of project that passes the tests, style checks, and fixes the last TODO comments
- Prerequisite to starting code reviews for next project



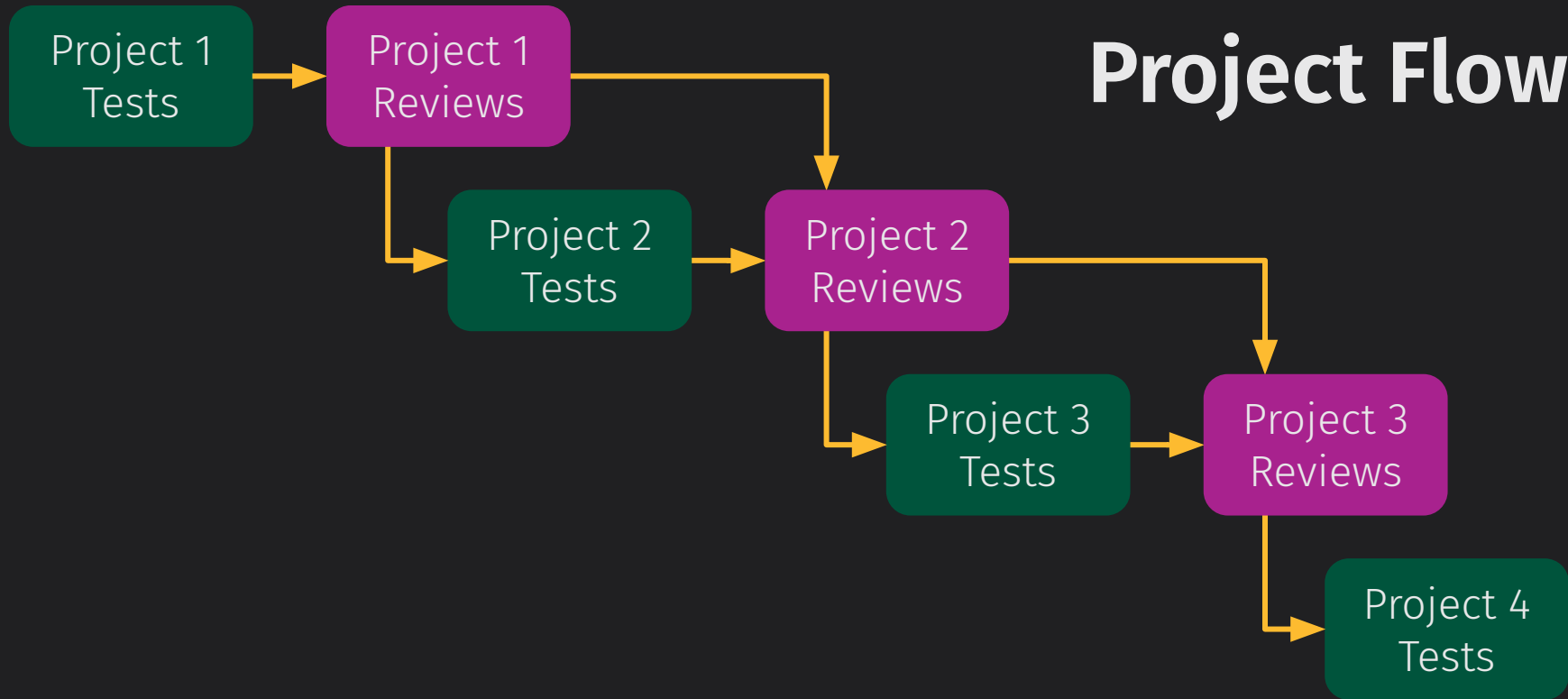
Project Rules

- Can work up to 1 project ahead after first code review
 - *Can start project 2 tests after first project 1 review*
- Must pass tests and style checks before code reviews
- Must pass design of previous project before starting code reviews for next project
 - *Cannot start project 2 review until done with project 1*

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Project Flow



Questions?

