

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	Part 1: Tests (100 points)	Part 2: Review (100 points)
1	Inverted Index Functionality	Inverted Index Design
2	Partial Search Functionality	Partial Search Design
3	Multithreading Functionality	Multithreading Design
4	Web Crawler Functionality	Search Engine Demo*

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



Project Assignments

Points	Assignment	Deadline	Grade Component
100	Project # Tests	Due on specific date	Functionality, Tests
25	Project # Review 1	Due on specific date	Design, Code Review
25	Project # Review 2	Due within 10 days of last code review	Design, Code Review
50	Project # Final Release		Design, Code Review



Test Grades

- Earned when pass 100% of tests on GitHub Actions
- Lose 2 points per day late
- Prerequisite to every code review with instructor

Review Grades

- Earned when attend code review with instructor
- Lose 5 points per 3 days late
- Lose 5 points if more than 10 days between code reviews



Final Release 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 code
- Prerequisite to starting code reviews for next project



Project Assignments

Points	Assignment	Deadline	Grade Component
100	Project # Tests	Due on specific date	Functionality, Tests
25	Project # Review 1	Due on specific date	Design, Code Review
25	Project # Review 2	Due within 10 days of last code review	Design, Code Review
50	Project # Final Release		Design, Code Review



Code Reviews

- One-on-one appointments with instructor via Zoom
 - Local recording is allowed
- Cover as much as possible in 20 minutes
- Will be given improvements to make to the code design
- May have up to one code review every 5 days*

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



Project Rules

- Can work up to 1 project ahead after first code review
 - Can start project 2 tests after first project 1 review
 - Cannot start project 3 until pass all of project 1
- Must pass tests (and more) before every code review
- Must pass final release of previous project before starting code reviews for next project

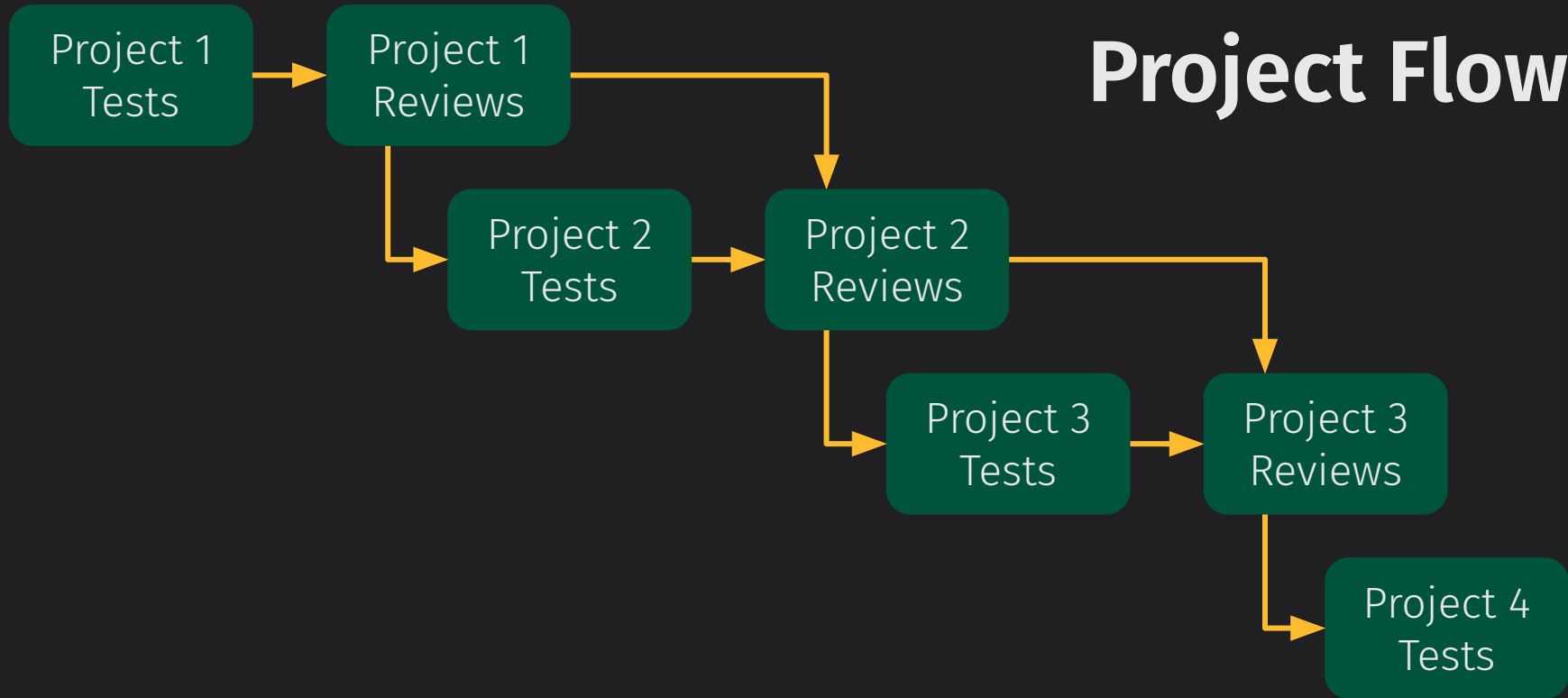


Search Engine Components

- 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 Flow



Questions?

