

## INFO 102 Lab 10: Real software development

Partner #1: Name: \_\_\_\_\_ Net ID: \_\_\_\_\_

Partner #2: Name: \_\_\_\_\_ Net ID: \_\_\_\_\_

In this lab, you'll explore an active medium-sized code base, the one used by the class's homework tool:

<https://github.com/PrairieLearn/PrairieLearn>

At the top of the page, below the name of the project, are several tabs starting with Code, Issues, and Pull requests. Each tab has multiple pages accessible with links inside it. We'll explore Issues and Pull Requests.

In the **Issues** tab:

Issues can be **open** (not resolved) or **closed**. You can pick which to see in the top bar of the list. You can sort the list in a drop-down on the right end of the top bar.

Partner 1: What is the **most commented open issue**?

Give its ID, which is a number starting with a hashtag shown after the issue title: # \_\_\_\_\_

Click on the issue and read the first comment (the original issue test)

Partner 2: Would you describe this as a bug, a reaction to upstream changes, or a new feature?

Skim through the other comments

Partner 1: How many comments are describing what is required? \_\_\_\_\_

Partner 2: How many comments are discussing how it might be implemented? \_\_\_\_\_

Both partners: From the last comment, what do you predict will be the future of this issue?

Partner 2: What is the **most commented closed issue**? # \_\_\_\_\_

Click on the issue and read the first comment (the original issue test)

Partner 1: Would you describe this as a bug, a reaction to upstream changes, or a new feature?

Skim through the other comments

Partner 2: How many comments are describing what is required? \_\_\_\_\_

Partner 1: How many comments are discussing how it might be implemented? \_\_\_\_\_

Both partners: From the last comment, why do you think this was closed?

In the **Pull Requests** tab:

Pull requests are organized much like issues, but describe changes to the code (requested or implemented)

Partner 1: What is the oldest open pull request? # \_\_\_\_\_

Some comment authors have a "bot" marker after their name.

Partner 2: How many distinct bots commented on this pull request? \_\_\_\_\_

Partner 1: How many comments did bots make? \_\_\_\_\_

Both partners: Why has this pull request not been "merged" (added to the code)?

Some pull requests are submitted by "dependabot", which is a non-AI automated tool that checks for upstream changes.

Partner 1: What percentage of the total pull requests are from dependabot? \_\_\_\_\_%

Pull requests can be closed in two ways; they can be "merged" (added to the code) or "unmerged" (rejected). In the search bar, add "is:merged" after "is:closed" to get a list of one, or "is:closed is:unmerged" for a list of the other.

Partner 2: What percentage of pull requests are closed by being merged? \_\_\_\_\_%

Partner 1: What percentage of the dependabot's pull requests are merged? \_\_\_\_\_%

Partner 2: What is the oldest closed unmerged pull request? # \_\_\_\_\_

Both Partners: From the comments, why was this pull request closed without being merged?

**When you're done, check out with a TA or CA and hand over this completed worksheet.**

**Bye!**