COSC 499: Capstone Software Project Course

GITHUB AND
TEAM ACTIVITIES

QUESTIONS ABOUT LAST WEEK?

COSC 499: Intro to Teams

Agenda

- GitHub for software development
  - Git stats

- Teams Activities

GITHUB: ISSUE MANAGEMENT

- **Issue management**: Helps you to create issues. They can be your user stories or team development/management issues. These issues will be label as:
  - **Tasks**: tasks will include many aspects such as coding, testing, and documentation. The task be fully contained, such that all aspects of delivering the task are in a single issue.
  - **Exploration**: is required when breaking a feature into tasks is not possible, either because you are unclear what needs to be done or unclear how it should be accomplished.
  - **Chores**: which provides value to the team rather than the client. Examples include implementing continuous integration or refactoring a codebase

GITHUB : TASKs

Individual tasks are expected to be small, and the team has to agree on the definition of done.

Each task is expected to meet the following before being closed:

- The acceptance criteria and the validation process/techniques (how to measure).
- The code is peer reviewed
- The Code is merged via Pull Request
- Code/feature passes tests
- Code is documented inline with PyDoc, JSDoc, JavaDoc or similar.
- Technical documentation is updated for system-level decisions / diagrams

GITHUB: PULL REQUEST

- **Pull requests:** Merging to master / develop is always done via pull request.
  - During the development of the feature, create a branch locally for the feature you are developing.
  - Try to name the branch with the name of the feature.
  - Create a pull request in the remote repo on GitHub from the feature branch to the master branch.
  - Someone of your team should review it before merging.
  - After merging into master, it should leave the code in a working, deployable state.
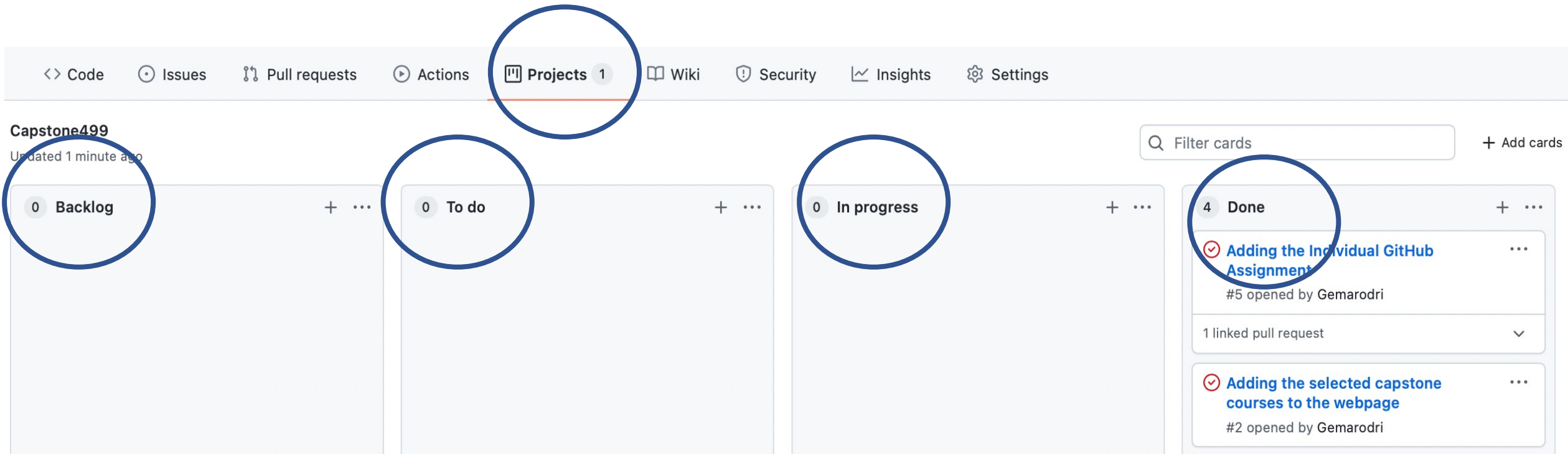
PULL REQUEST

Merging to master / develop is always done via pull requests, which combine many commits / changes into a single, reviewable, atomic change. The pull request should:

- contain entire deliverable (feature or similar)
- be reviewed by the team
- pass all tests
- leave the code in a working, deployable state once merged into develop or master.

GITHUB: PROJECT BOARD

- **Project Boards:** Helps you to manage the lifecycle of issues.

GITHUB: Tracking Time

There are a few tools that can help you to measure the time in GitHub. This might be helpful for identify problems in the process.

- TMetric for GitHub (https://tmetric.com/integrations/github-time-tracking)

- Toggl track (https://toggl.com/track/github-time-tracking/)

GITHUB INDIVIDUAL EXERCISE

- Explanation of the exercise: https://github.com/Gemarodri/Capstone499/blob/main/Assigments/IndividualGitHub.md

- This will be part of your weekly grade

- Evaluation Criteria is detailed at the end of the exercise.

SUBMIT THE VIDEO DEMO of your work to CANVAS before Friday!!!

GITSTATS

Install gitstats and check that it works in your computer.

Follow the steps in:

https://github.com/brandongk-ubco/gitstats#installing-and-running-gitstats

TEAM ACTIVITIES (20-30 Min)

- Introduce yourselves

- Discuss skills and expectations in this course

- Identify who is taking which role

- Enter your name and role into the Google doc (https://docs.google.com/spreadsheets/d/1oSsXge-F91IQNuZKsiWeZW3VAdn6MLU6VjZ4juviaR0/edit?usp=sharing)

- Have the client liaison email me gema.rodriguezperez@ubc.ca with their own full name. Subject [COSC499 Client liaison]

What makes a good team?

Think carefully about this question. Then, write what you think and submit your answer to MENTI.

- https://www.menti.com/msmaym8wxu
- www.menti.com code **8006 6711**

Go to **www.menti.com** and use the code **8006 6711**

What makes a good team?

TEAM NORMS/AGREEMENT

- Some teams think that is very useful to develop a guidelines about how the members of the team must work together to create a positive, and productive process.

- These norms are encompassed in a team agreement that describes positive behaviors that, although basic, often are not automatically demonstrated in team processes.

- The purpose is to establish the team culture, and it is something to refer back when/if conflicts start.

TEAM NORMS/AGREEMENT

- The working agreements help teams because:

    - They develop a sense of shared responsibility within the teams
    - They Increase members' awareness of their own behavior
    - They empower the facilitator to lead the group according to the agreements.
    - They enhance the quality of the group process.

NEXT DAY:

- Submit the GitHub individual Exercise before Friday 8:00
  - GitHub Exercise

- Contact client
  - Introduce yourself and your teammates
  - Set up a weekly client meeting that works for all 3 teams on the project
  - Upload teams information into the document (https://docs.google.com/spreadsheets/d/1oSsXge-F91IQNuZKsiWeZW3VAdn6MLU6VjZ4juviaR0/edit?usp=sharing)

TEAM WORK ACTIVITIES

Discuss with your team whether you would like to have a team work agreement. If you want, you can start working on it!!! Useful links:

- http://www.payton-consulting.com/agile-team-working-agreements-guide/

- https://agilepainrelief.com/blog/team-friction-inspires-working-agreements.html

- https://agilefaq.wordpress.com/2007/11/21/what-is-a-team-ground-rule-or-team-working-agreement/