Lesson: GitHub Project Boards

Review Check

- Be sure you have accepted the invitation to your GitHub team
- Git Branch, Merge, Issues, and Pull-requests
- GitFlow Overview

Outcomes

- Understanding of Kanban boards and how to use them productively
- Step through the issue tracking process using a GitHub Project Board

Resources

- Kanban Boards (short video)
- Definition of Done
- Acceptance Criteria
- GitHub Project Overview
- About GitHub Project Boards
- Adding to Board
- **Project Boards Lesson Repository**

Instructions

Part 1 - What is a Kanban board?

1. Watch the short video on Kanban Boards that's listed in the Resources section.

2. One of the ways to use the Kansan board is to review the board with your team mates during the daily stand-up meeting.
   You should create a Kanban card for each task that you're working on, and during each stand-up you should go through the Kanban and update the cards while reporting out to your team.

   A. This will help keep everyone on-task, and help ensure that everyone is focused on the tasks that need to be done.

   B. The frequent review will also help to establish a 'single source of truth' for what tasks should be done (instead of having multiple lists split up amongst multiple people & places

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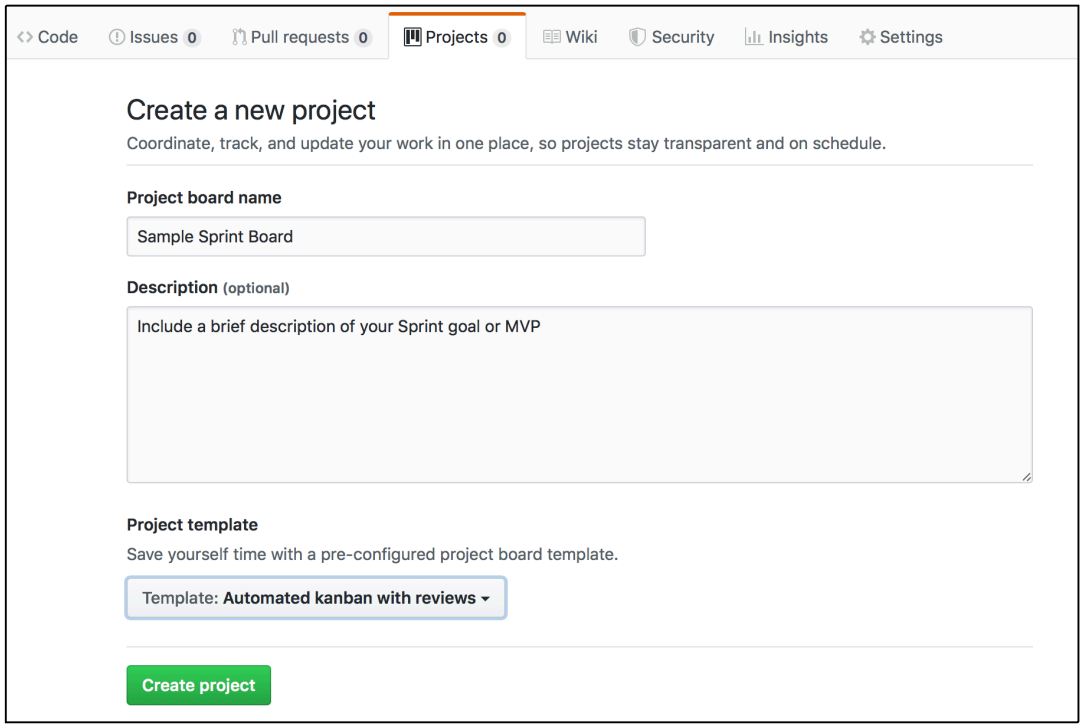
Part 2 - Create a New Project

3. Go to the GitHub repository's Issues tab; create a new issue with your name in the title
   (You will work solely in GitHub for this lesson. DO NOT fork or clone this repository)

4. Assign the issue to yourself

5. Have one person in your team create a new Project using the name "Sample Sprint Board for *_your team name_*" with a brief description, and use the Template "*Automated kanban with reviews*"



6. Within your groups:

    A. Examine the columns that are present already in the Kanban board

    B. Go through the "Welcome To GitHub Projects" card, checking off the items as you do so.

    C. Make sure that you're able to add, rename, rearrange, and remove both columns and cards.

    D. NOTE: Most Kanban boards have a relatively small number of columns (e.g., Backlog, Todo, InProgress, ReadyForReview, Completed).

7. Next, read through the "Definition of Done" page in the Resources section.
   The purpose of having a clear Definition of Done for each task is so that everyone agrees when a task is finished.
   EVERY CARD SHOULD HAVE A LINE THAT STARTS WITH **Definition Of Done:** AND INCLUDES A CLEAR, CONCISE DEFINITION OF WHAT THE COMPLETED TASK WILL LOOK LIKE.

    A. Acceptance criteria are a similar, and very important concept in Agile development. Essentially, Acceptance Criteria are Definitions Of Done that the customer has agreed to.

    B. Read through the Acceptance Criteria web page listed in the Resources Section, and discuss it with your group.

8. Within your groups:

    A. Each person should add at least 1 card to the Kanban board that lists a task of theirs and is assigned to that person.

B. Do a quick Stand-up meeting - go around and briefly list what you did yesterday, what your task(s) are for today, and any blocking issues that you may be facing.

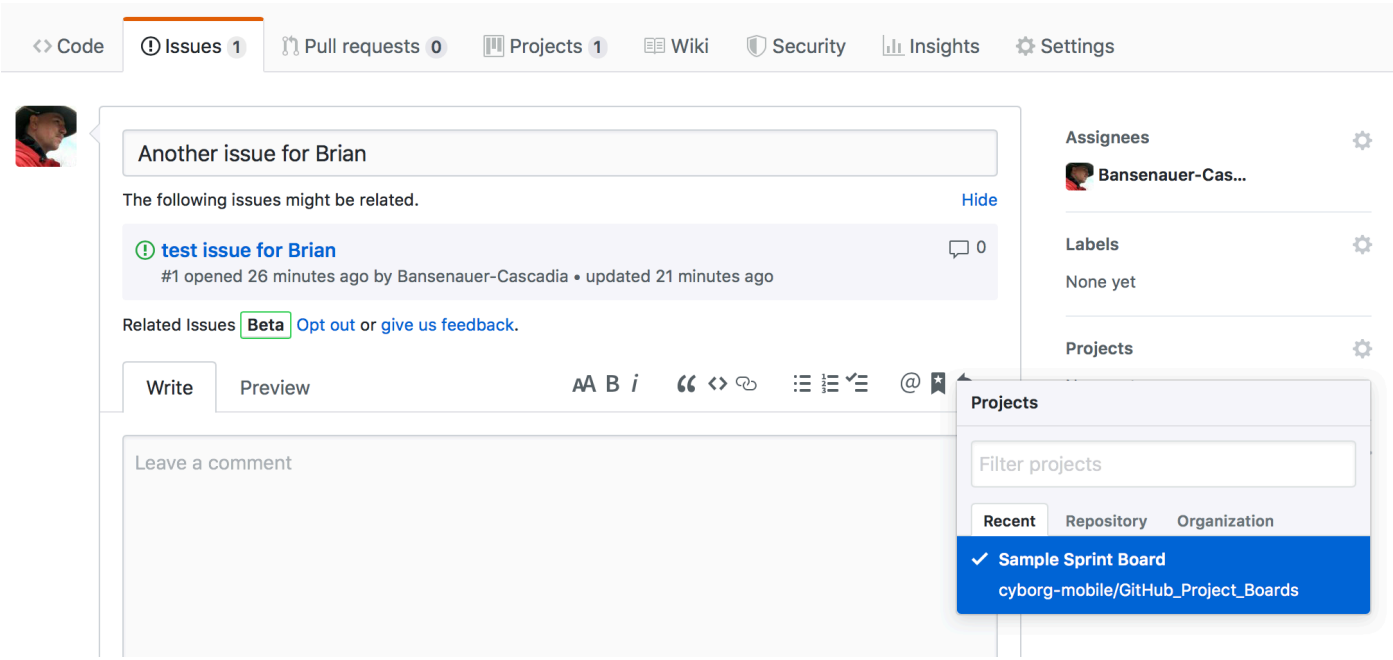
Part 2 - Add issues to the Project

1. From the Project board, locate your issue in the list on the right side of the board, and drag your issue into the “To Do” column. Notice you can move it between columns in the same way.

2. Create another issue and assign yourself to it.

3. From the Project section on the right side of the issue, select your team project as the issue’s Project

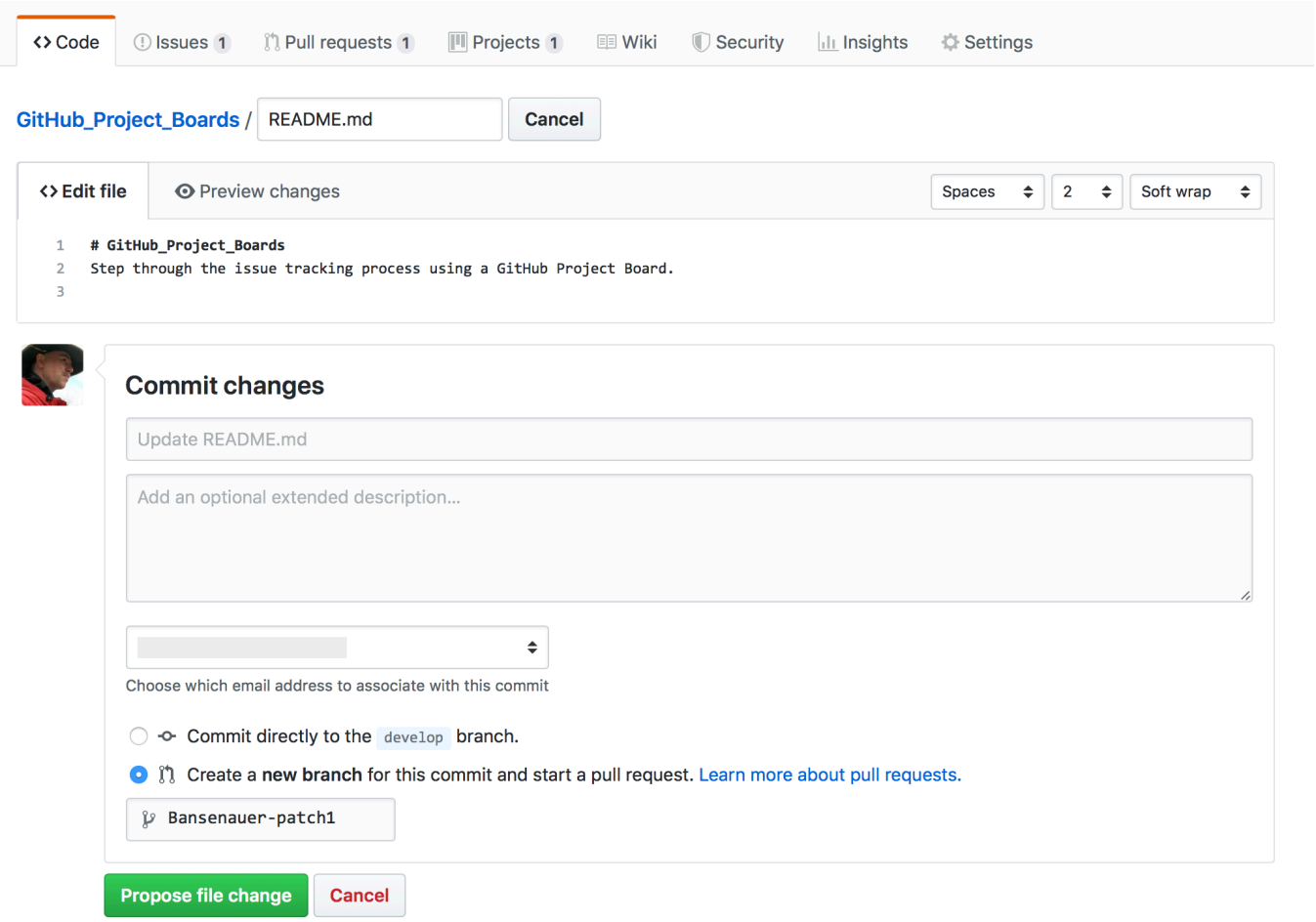
4. Verify that your issue card appears in the Project “To Do” section



Part 3 - Add a Pull Request to the Board

1. From the repository's "Code" tab, EDIT the README.md file using the right hand side "pencil" icon

2. Make a change to code, and commit the changes by selecting the "Create a **new branch** for this commit and start a pull request" option at the bottom of the page
   (NB: you will not be able to click on the button to commit the file if you haven't made a change to the code)



3. Name the Pull Request "Closes *#_your first issue number_*"

4. Add the issue to your Project and verify that it appears in the Project's "In Progress" section

Part 4 - Move Issues Automatically

1. From the repository's "Issues" tab, close one of your issues

2. Verify that the issue card is moved to in the "Done" section

Next Steps

- Create a Project for Sprint 1 in your team's repository
- Begin adding issue to your team's Sprint project board
- Look for opportunities