

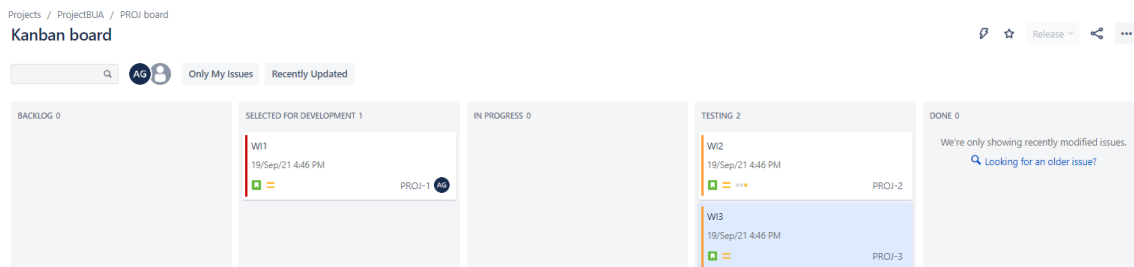
ECSE365L – Agile Software Development

Lab 06 – Configure Kanban board

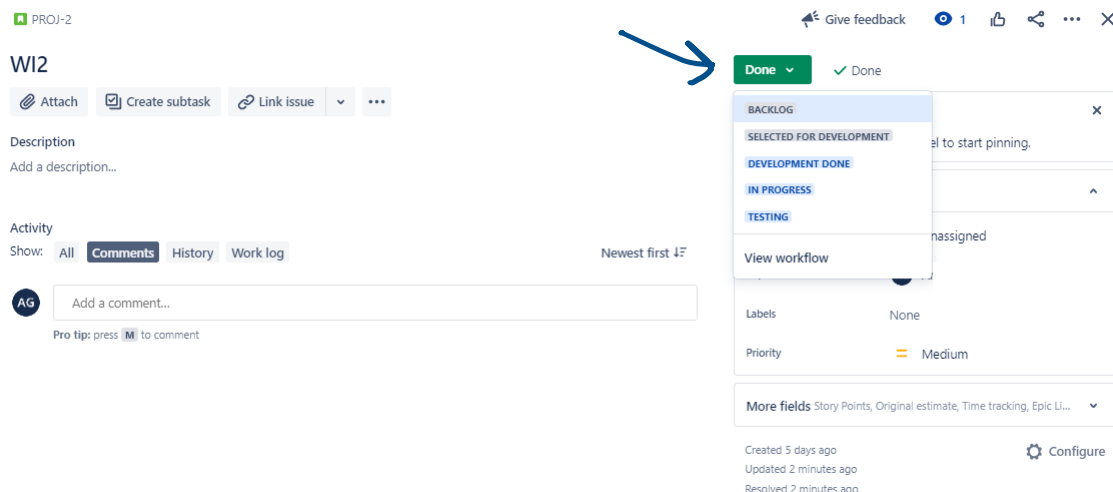
NOTE: Add the faculty as your team member in your project

Move issues through a workflow.

1. Log into Jira (if necessary). [https://\[your site name\].atlassian.net](https://[your site name].atlassian.net) and navigate to your project created in the previous lab.
2. Click on the Kanban board tab in the sidebar to view your board.
3. You should see three issues on the board from the previous company-managed Kanban lab. Drag issues to new columns.



4. Click on an issue to open its details. Notice that the dropdown value in the upper right matches the name of the column on the board. This is the Status field value of the issue. Change the status value. Close the issue details and notice that your issue has changed columns on the board.



5. Again view an issue's details. Notice that the Assignee field is **Unassigned**. Click on the Unassigned value and select Assign to me. This lets the team know that you are responsible for working on the issue in this status. Close the issue details and notice that your user avatar appears with the issue on the board.

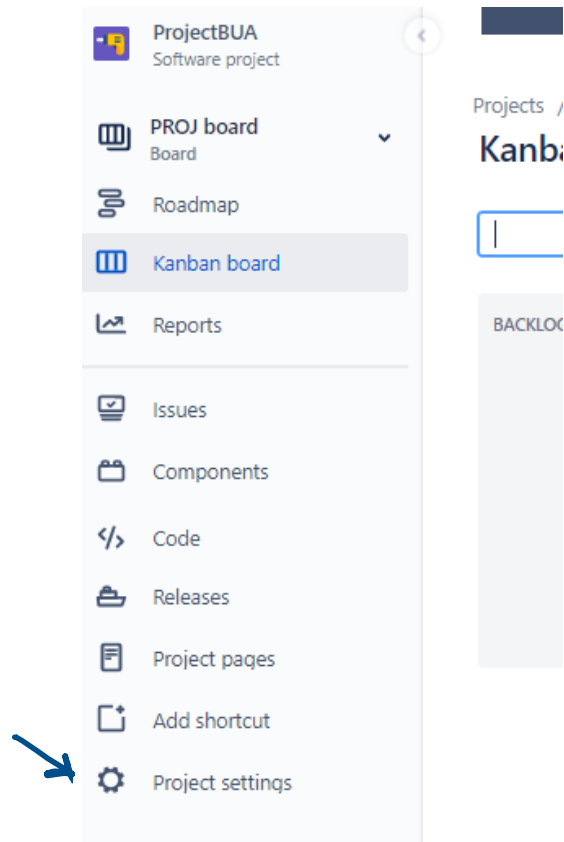
The screenshot shows the Jira issue details for PROJ-2, WI2. The interface includes a top bar with 'Give feedback', '1' comment, and icons for like, share, and close. Below the top bar is a 'Testing' tab. The main content area is divided into two sections: 'Pinned fields' and 'Details'. The 'Details' section contains the following fields:

Details	
Assignee	AG j
Reporter	AG j
Labels	None
Priority	Medium

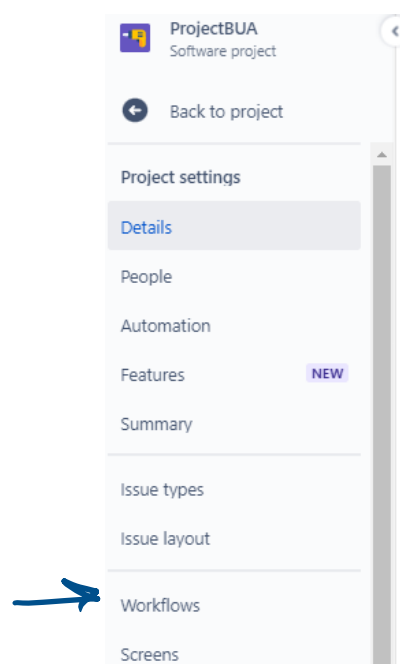
A blue arrow points to the 'Assignee' field, which is currently set to 'AG j'. Below the 'Details' section is a 'More fields' section with a dropdown menu. At the bottom, there is a 'Created 5 days ago' and 'Updated 2 seconds ago' timestamp, and a 'Configure' button.

View the default kanban workflow.

6. While viewing your project, click on the **Project settings** tab in the sidebar.
The scope of these settings is limited to the project.



7. Click on the **Workflows** tab in the sidebar to view the workflow(s) for your project.



8. You should see one workflow. Click on the (View as) **diagram** link to view the workflow.

Projects / ProjectBUA / Project settings

Workflows

PROJ: Software Simplified Workflow Scheme

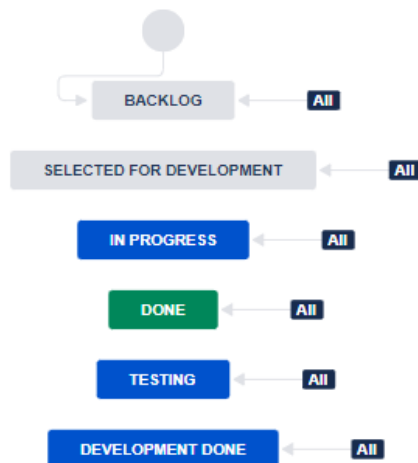
Add Workflow ▾

Switch Scheme

Workflow

Software Simplified Workflow for Project PROJ (View as [text](#) / [diagram](#))

9. Notice that the workflow contains the four default statuses of projects created with the kanban template. Also notice that when you create an issue, its status will automatically be set to Backlog (as indicated by the circle pointing to it). The All boxes means that all of the other statuses in the workflow can transition to this status.



10. Close the workflow diagram.

Add a Review column to the board

11. Under the **Columns** tab of your board settings, click **Add column button**. In the Add column window, name the column **Review** and specify a category of **In Progress**. Click **Add** to add the column to the board.

Add column

Name: ← ①

Category: ②

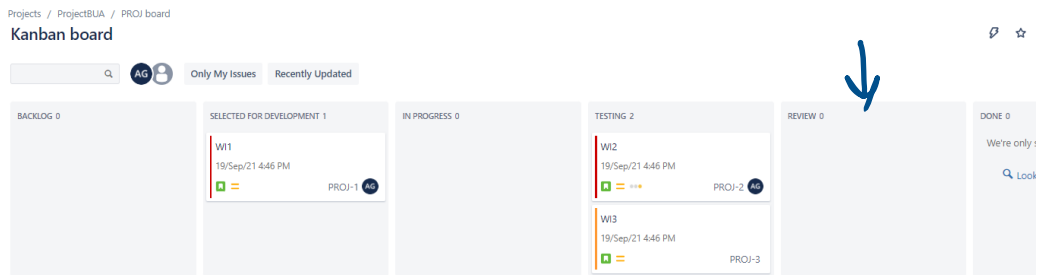
The category for the existing status with this name will be used

12. You should now see the **Review** column before the Done column. Below the blue bar, you should see that Jira has created a **REVIEW** status for you, matching the name of your column.

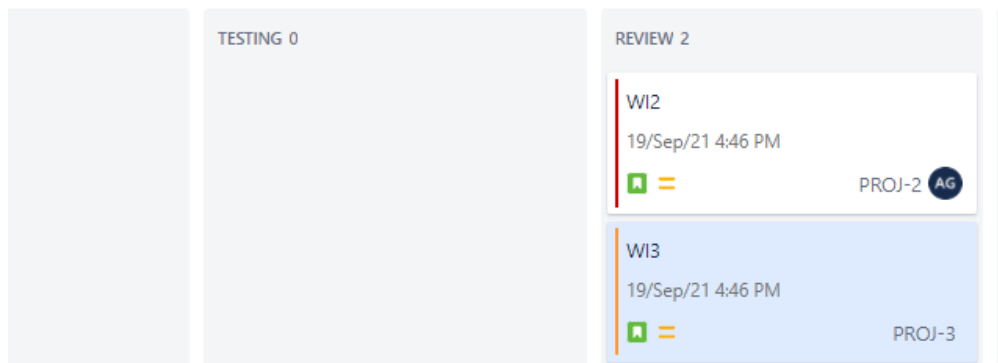
The text of the **REVIEW** status is blue, indicating that the category for the REVIEW status is **In Progress**. In the **REVIEW** status, the **Set resolution** checkbox should remain **UNCHECKED**. Checking this would set an issue's resolution field when it is moved to the **Review** status. We don't want to check this, because checking it would mean that issues in this status were resolved or closed.

Testing	REVIEW	Done
No Min No Max	No Min No Max	No Min No Max
TESTING 2 issues <input type="checkbox"/> Set resolution	REVIEW No issues <input type="checkbox"/> Set resolution	DONE No issues <input checked="" type="checkbox"/> Set resolution

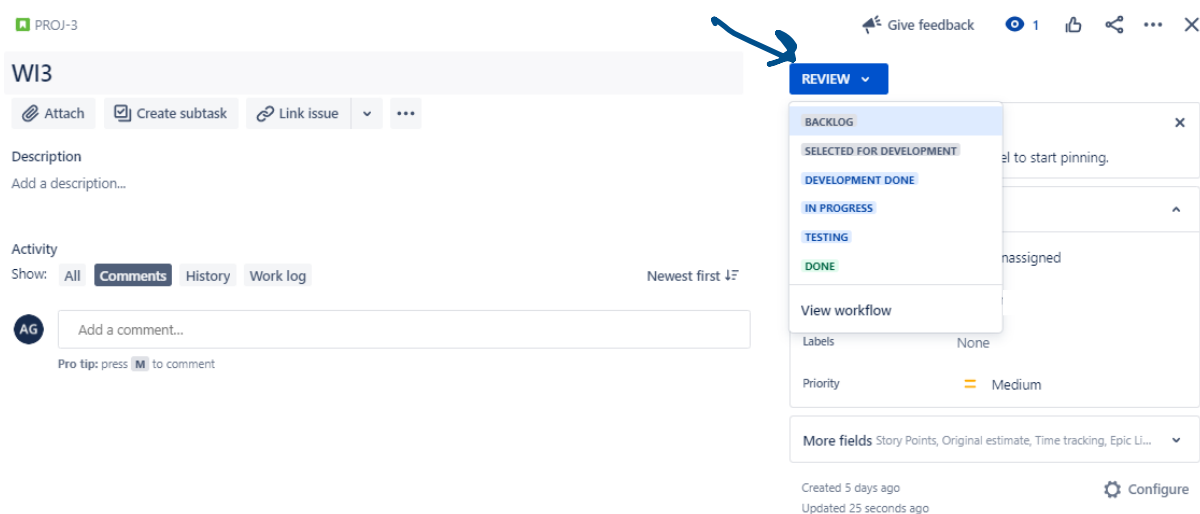
13. Click the Back to board link in the upper right. You should see the **Review** column on your board.



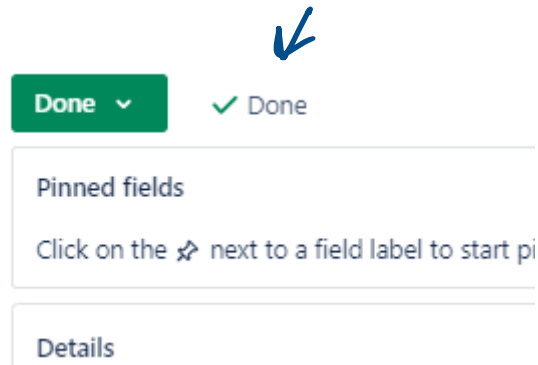
14. Verify that your Review column is working. On your board, drag issues to the **Review** column.



15. View an issue's details and change the **Status** to and from a value of **Review**. The issue should move to the new column on the board.



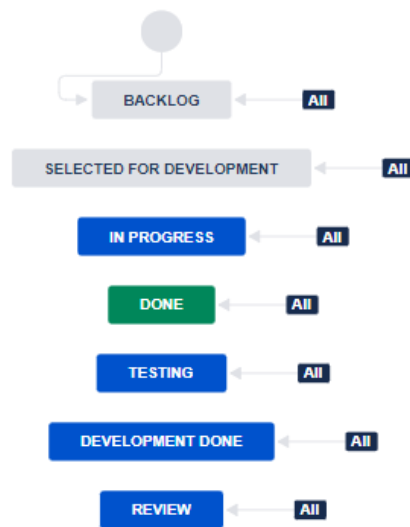
16. From the board, open any issue. In the dropdown in the upper right, change the status of an issue to **Done**. Notice that a checkmark and Done indicator are shown next to the status. This indicates that the **Resolution** field is set to **Done**.



17. Change the status to **Review**. Notice that the Done checkmark and indicator are gone. This is because we didn't check the **Set resolution** checkbox when configuring the **Review** column. The **Resolution** field is cleared.



18. Using the same procedure that you used earlier, view the workflow diagram under **Project settings**. You should see the **Review** status. You should also see that all other statuses are allowed to transition to **Review**. Jira added this status to the workflow when you added the **Review** column. The actual order of the statuses in this diagram does not matter, since all statuses are allowed to freely transition to other statuses. The order on a board is specified in board settings.



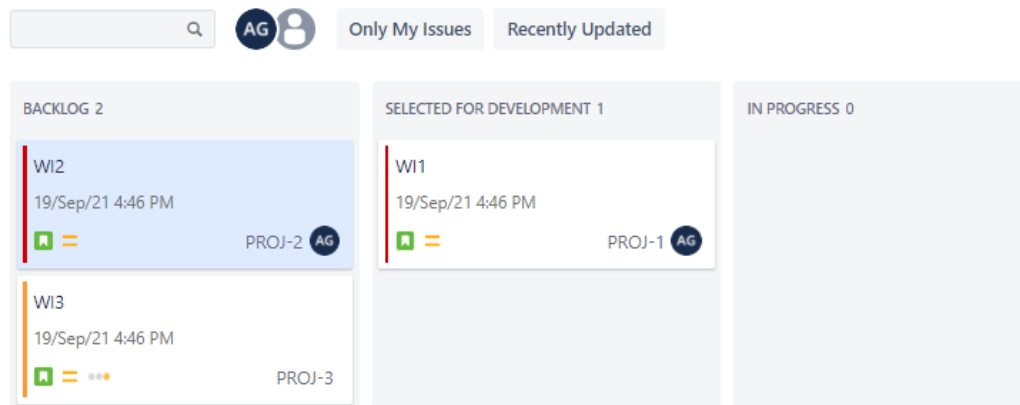
19. Navigate back to your board.

Configure a Kanban board to use a separate backlog

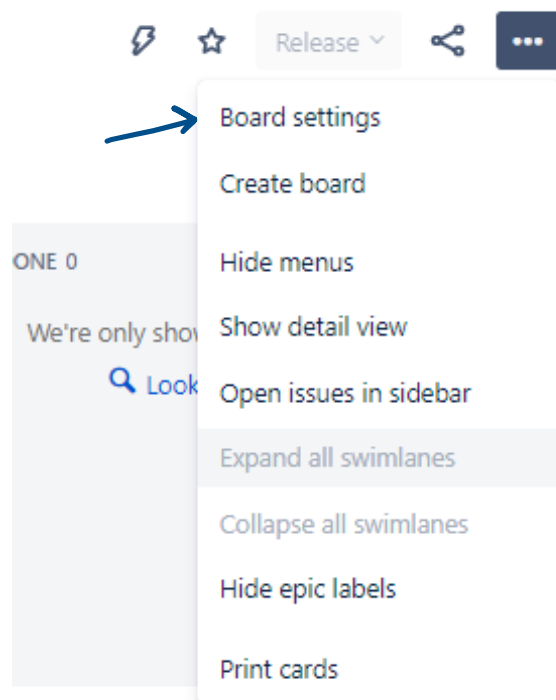
1. In your company managed project, move some issues to the **BACKLOG** column of your Kanban board.

[Projects](#) / [ProjectBUA](#) / [PROJ board](#)

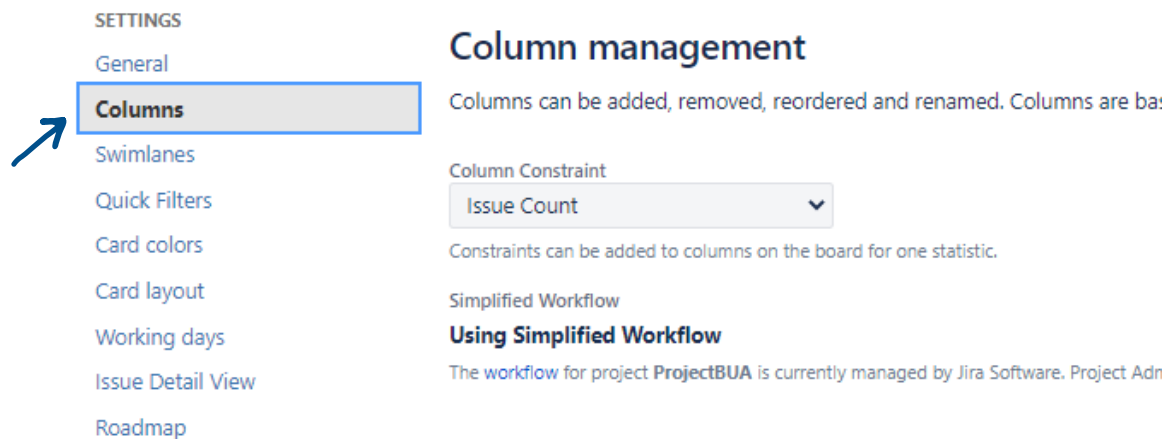
Kanban board



2. Navigate to the board settings (→ Board settings) → Click the **COLUMNS** tab

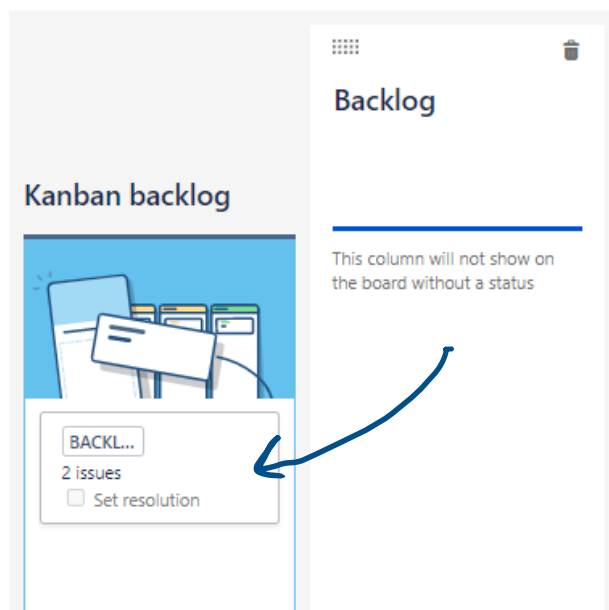


Settings for PROJ board



The screenshot shows the 'Settings for PROJ board' page. On the left, under the 'SETTINGS' section, the 'Columns' option is highlighted with a blue box and a blue arrow pointing to it. The main content area is titled 'Column management' and contains the following text: 'Columns can be added, removed, reordered and renamed. Columns are ba:'. Below this is a 'Column Constraint' dropdown menu set to 'Issue Count'. Further down, it says 'Constraints can be added to columns on the board for one statistic.' and 'Simplified Workflow'. A section titled 'Using Simplified Workflow' states: 'The workflow for project ProjectBUA is currently managed by Jira Software. Project Adn'.

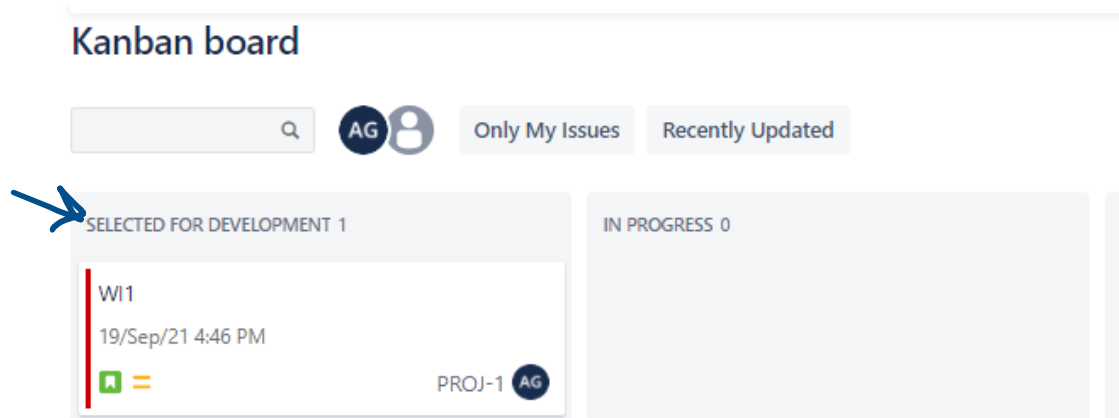
3. Drag the **BACKLOG** status (the box at the bottom of the backlog column-not the column itself) from the first column to the Kanban backlog section on the left.



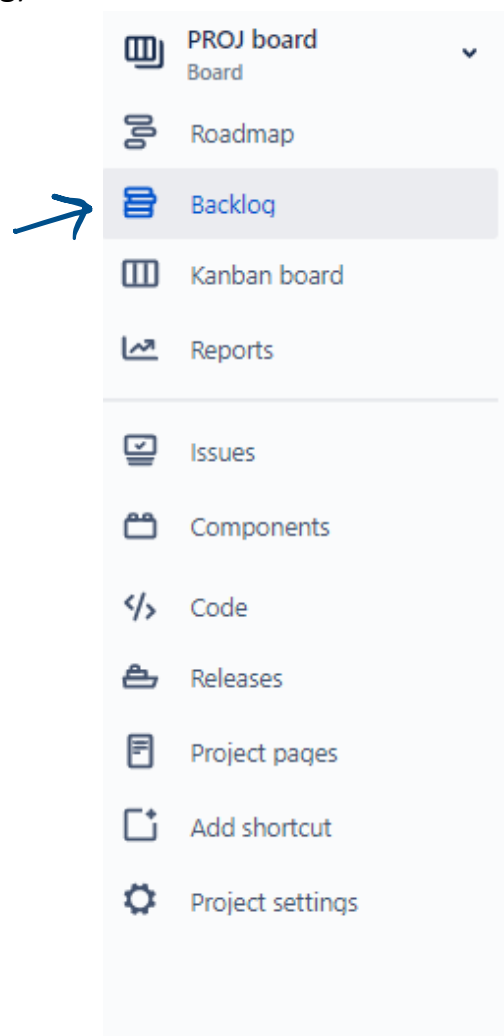
4. You should now see the **BACKLOG** status in the Kanban backlog and the **BACKLOG** column of the board should not contain any statuses.

Note: You can drag any status(es) except DONE to the Kanban backlog. The status does not have to be named BACKLOG.

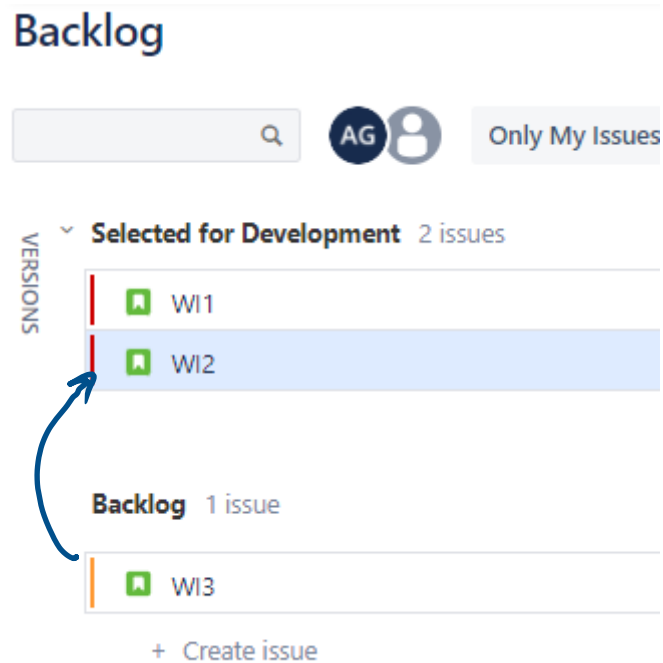
5. View your Kanban board. You should now see **SELECTED FOR DEVELOPMENT** as the first column. The **Backlog** column has been moved to the Kanban backlog.



6. Click on the **Backlog** tab (this was added by Jira when you enabled the Kanban backlog).

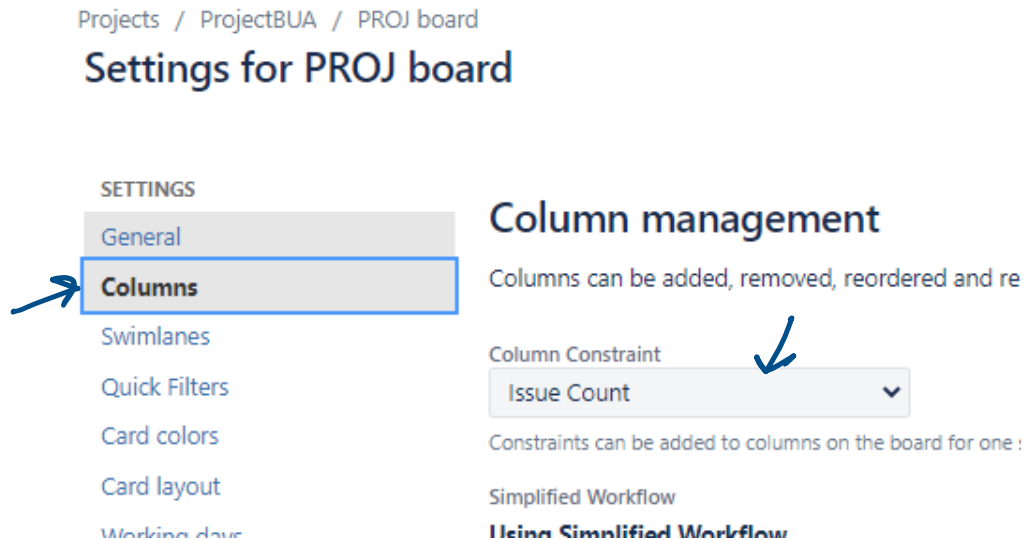


7. Move issues between the backlog and the first visible column on the Kanban board (**Selected for Development**). This is where you can work on the backlog while the rest of the team is focussing on the issues that are ready to be worked on.



Assign work in progress (WIP) limits on Kanban board columns

1. From your project's Kanban board → click the ... button → select Board settings → Click the Columns tab.
2. Verify that the Column Constraint is set to **ISSUE COUNT**.

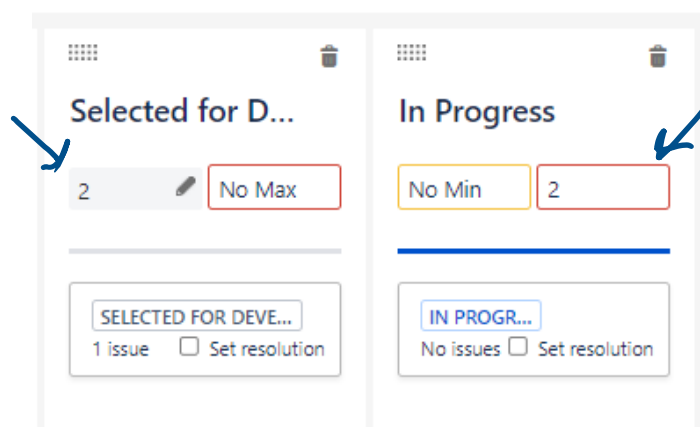


3. In the **Selected for Development** column, specify a minimum issue count of 2.

- The column will be highlighted if there are less than two issues in the column.
- Denotes that more issues need to be added to the column.

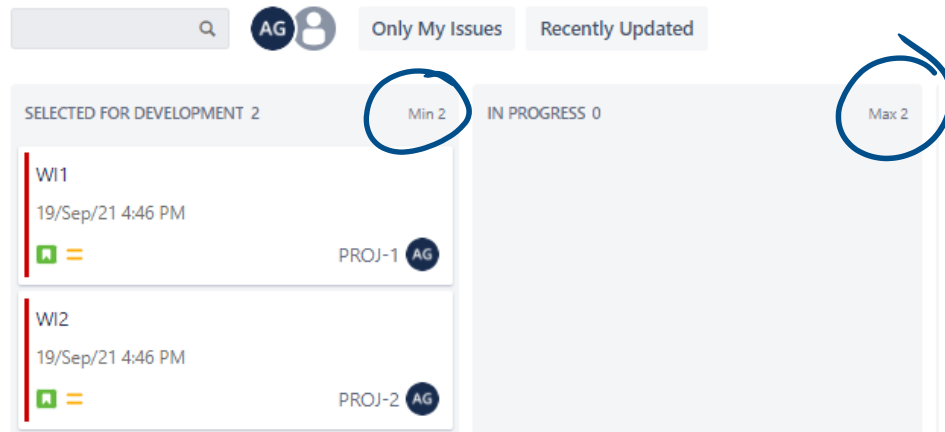
4. In the **In Progress** column, specify a maximum issue count of 2.

- The column will be highlighted if there are more than two issues in the column.
- Denotes that there is too much work- in-progress in that column.



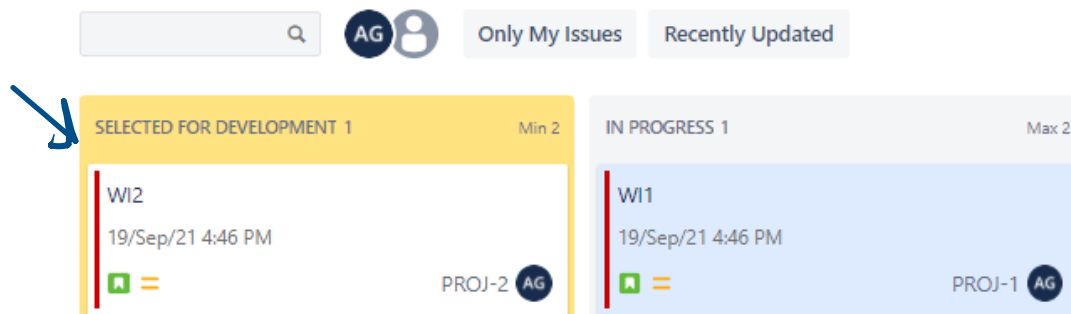
5. Click Back to board → you should now see a **MIN 2** indication in the **Selected for Development** indication in the column and a Max 2 indication in the In Progress column. These are the WIP limits.

Kanban board



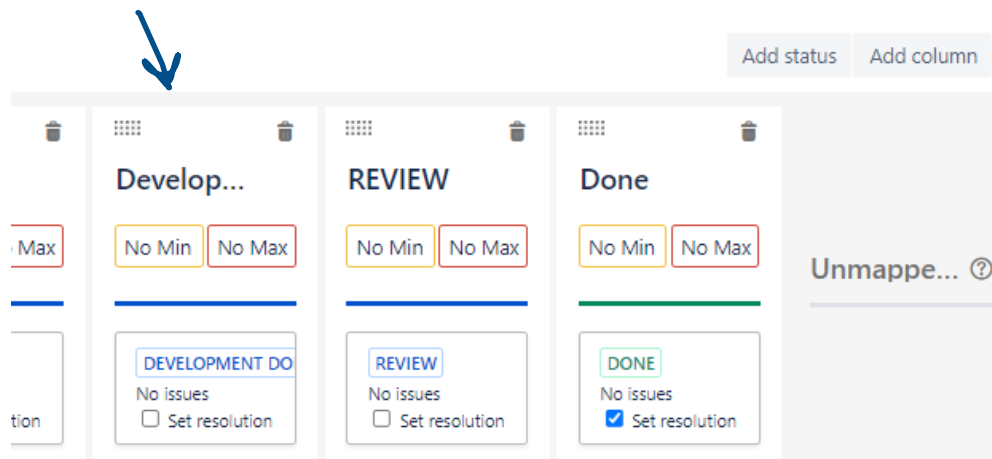
6. Drag issues to the columns to violate the constraints. You may need to change the status of issues in the backlog. You should see a highlighted column when the minimum or maximum constraint is violated.

Kanban board



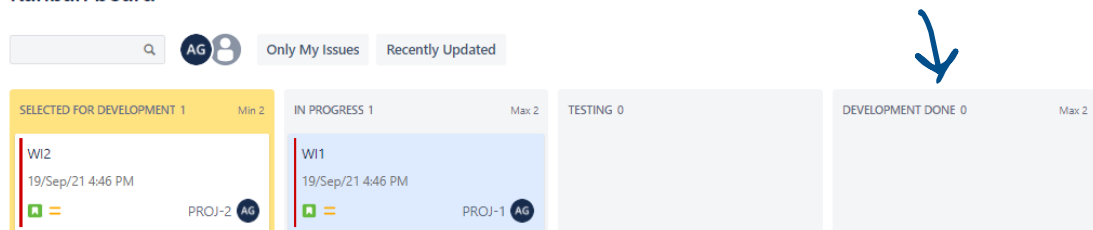
Add a "Development Done" column as a queue

1. Using steps like the previous lab, add a **Development Done** column (which also adds a status) to your Kanban board. Make sure to drag it to the column before **Review**.



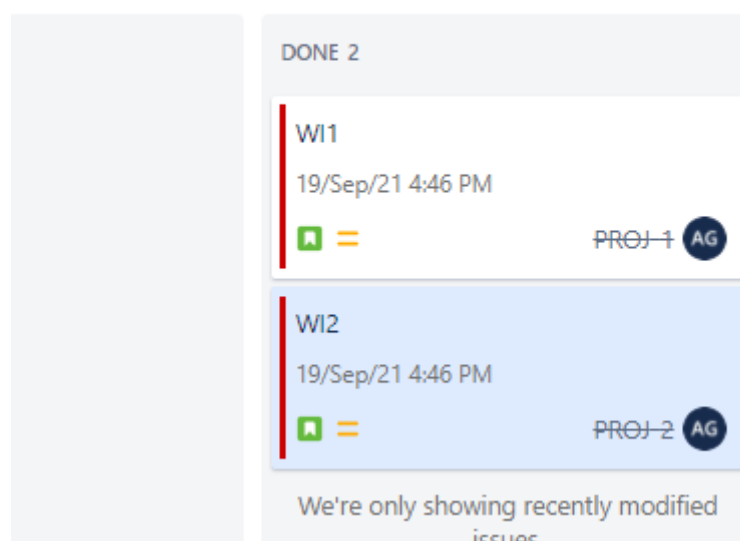
2. Set a WIP limit of **Max 2** for the **Development Done** column.
3. Test that your new column is working as expected.

Kanban board

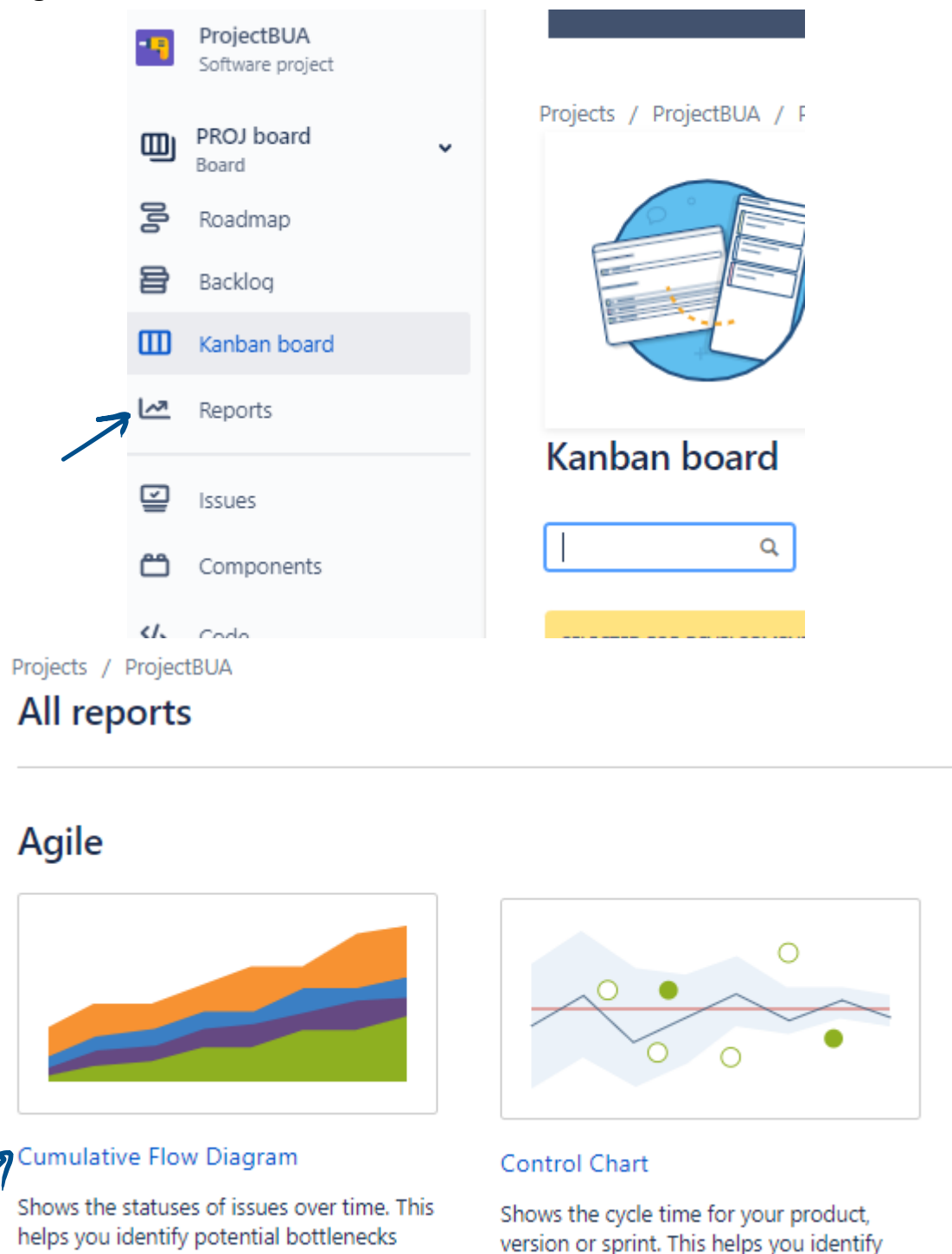


View a cumulative flow diagram

1. Move all issues of the project to the **DONE** column.



2. Click on the **Reports** tab in the sidebar → Click on **Cumulative Flow Diagram**.



Projects / ProjectBUA / F

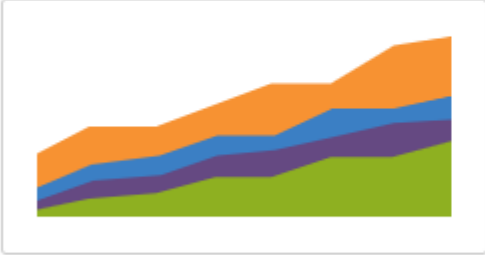
Kanban board

Search

Projects / ProjectBUA

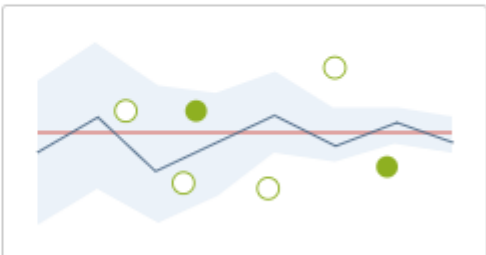
All reports

Agile



Cumulative Flow Diagram

Shows the statuses of issues over time. This helps you identify potential bottlenecks



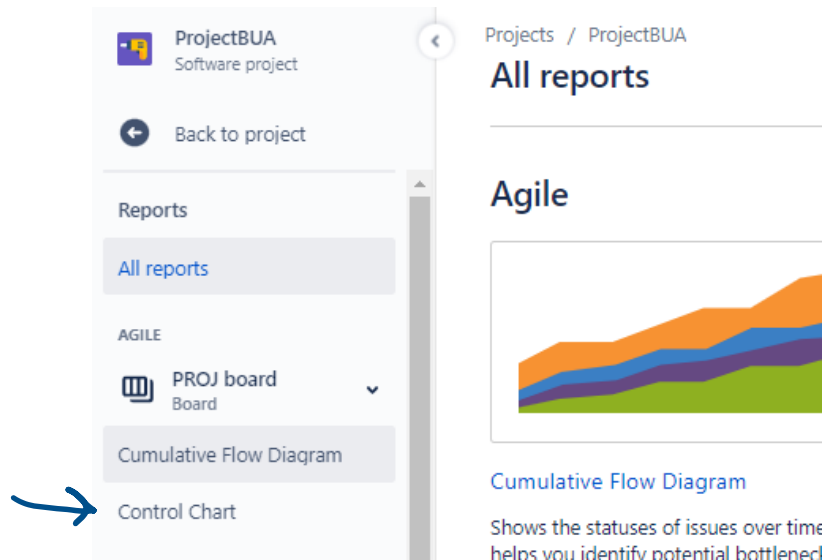
Control Chart

Shows the cycle time for your product, version or sprint. This helps you identify

3. Zoom into any section of the report by clicking and dragging the cursor across the top chart or the small chart below it. You can double-click on the small chart to reset the top chart

View a cycle time control chart

1. Click on the **Control Chart** tab.



2. View the chart. This shows the cycle time for the issues of the project. This is the time between when an issue is moved from the backlog to **In Progress** until the time that the issue is moved to the **DONE** column. Use the controls below the chart to change the horizontal timeframe of the chart.

- This chart also might not look that great. A continuously improving team should show a cycle time that decreases over time.

Take a snapshot of your kanban board and insert in a word file. Submit the MS Word file as your lab assignment.

Ref: Altassian