

Lab: Build the Sprint Plan from Your Product Backlog Using GitHub

Estimated time needed: 20 minutes

In this lab, you will create a sprint plan from your product backlog. This is normally done during the sprint planning meeting with the entire team, so for this exercise, we will have to simulate that meeting.

Objectives

After completing this lab, you will be able to:

1. Set up sprints
2. Assign estimates to stories
3. Assign a sprint to stories
4. Build your sprint backlog

Initial State

After completing the previous lab [Build Your Product Backlog Using GitHub Pages](#), your Kanban board should look like this:

The screenshot shows a GitHub project named "Lab Agile Planning". The main interface has tabs for "Backlog", "Priority board", "Team items", "Roadmap", "In review", "My items", and "+ New view". Below these are buttons for "+ Add item" and "+ Add item". The "Sprint Backlog" column is currently empty.

New Issues:

- None

Icebox:

- Must allow multiple counters
- Need the ability to remove a counter

Product Backlog:

- Need a service that has a counter
- Must persist counter across restarts
- Deploy service to the cloud
- Counters can be reset
- Need ability to update a counter to a new value

Exercise 1: Setup Sprints

In this exercise, you will set up your sprints. GitHub will set up three (3) sprints by default to get you started. It will then create new sprints for you as needed automatically.

1. Go to [GitHub](#), sign in with your GitHub account, and bring up your Kanban board.

The screenshot shows a GitHub project named "Lab Agile Planning". The main interface has tabs for "Backlog", "Priority board", "Team items", "Roadmap", "In review", "My items", and "+ New view". Below these are buttons for "+ Add item" and "+ Add item". The "Sprint Backlog" column is currently empty.

2. To create the sprint, click the dropdown button next to **Backlog**. Then, click the right arrow next to **Fields** and select **New field**.

The screenshot shows a GitHub project configuration screen for "Lab Agile Planning". On the left, there's a sidebar with a "New issues" section and various filtering and sorting options. A red box highlights the "Backlog" dropdown menu. On the right, there's a "Visible fields" section with checkboxes for "Title", "Assignees", "Status", "Priority", "Estimate", "Size", and "Labels". A red box highlights the "Fields" dropdown menu, which is open and shows the "New field" option highlighted with a red number '3'. Below the fields section, there's a "Hidden fields" section with checkboxes for "Linked pull requests", "Milestone", "Repository", "Reviewers", "Start date", and "End date".

3. A pop-up will appear. Enter **Sprint** as the field name, choose **Iteration** as the field type, and keep the start date to the current date. Keep the duration as two weeks. Finally, click the **Save and create** button.

Lab Agile Planning

Backlog

Filter by keyword or by field

New issues

Field name *: Sprint

Field type: Iteration

Options

Starts on: May 23

Duration: 2 weeks

Save and create

Rename view

Save changes to new view

Delete view

Add item

Export view data

Roadmap | **In review** | **My items** | **+ New view**

Discard | **Save**

Product Backlog 5 / 7 Estimate: 0

Planning #2: Multiple counters

Planning #6: Ability to remove a counter

lab-agile-planning #1: Need a service that has a counter enhancement

lab-agile-planning #3: Must persist counter across restarts enhancement

lab-agile-planning #5: Deploy service to the cloud technical debt

Sprint Backlog 0 / 5 Estimate: 0

Save

You now have a sprint that can be used for sprint planning in the next exercise.

Exercise 2: Create a Sprint Plan

In this exercise, you will create a sprint plan. We will assign estimated story points and a sprint, and move the stories from the **Product Backlog** into the **Sprint Backlog** to build our plan.

1. Select the top story **Need a service that has a counter** from the **Product Backlog** to open it.

Lab Agile Planning

Backlog

Priority board

Team items

Roadmap

In review

My items

+ New view

Filter by keyword or by field

New issues 0 / 7 Estimate: 0

Icebox 2 Estimate: 0

lab-agile-planning #2: Must allow multiple counters

lab-agile-planning #6: Need the ability to remove a counter

Product Backlog 5 / 7 Estimate: 0

lab-agile-planning #1: Need a service that has a counter enhancement

lab-agile-planning #3: Must persist counter across restarts enhancement

lab-agile-planning #5: Deploy service to the cloud technical debt

lab-agile-planning #4: Counters can be reset enhancement

lab-agile-planning #7: Need the ability to update a counter to a new value enhancement

Sprint Backlog 0 / 5 Estimate: 0

Save

Discard

Add item

Export view data

2. You discussed the story with the team, and your developers agree that this is a large story worth 8 story points, so set the **Estimate** to 8.

Lab Agile Planning

Backlog

Open [Zehra539/lab-agile-planning](#) Public

Filter by keyword or by field

New issue

Zehra539 opened last week edited by Zehra539 · Edits · ...

Assignees: No one - [Assign yourself](#)

Labels: enhancement

Projects: Lab Agile Planning

Status: Product Backlog

Priority

Size

Estimate: 8 ✓

Start date: No date

Acceptance Criteria

Given I have incremented the counter to 2
When I make a call to get the current value
Then it should return 2 as the counter value

Details and Assumptions

- Need a way to increment a counter
- Need a way to get the current value

As a User

I need a service that has a counter
So that I can keep track of how many times something was done

Edit | **Copy** | **⋮** | **X**

3. Click **Choose an iteration next to Sprints** and select the first sprint from the dropdown list to assign the story to that sprint. You can assign a story to more than one sprint. This is not very agile! If your story is bigger than a sprint, then it's too big and should be broken down into smaller "sprint-sized" stories.

Zehra539 / Projects / Lab Agile Planning

Need a service that has a counter #1

Open | Zehra539/lab-agile-planning | Public

New issues

Zehra539 opened last week

As a User
I need a service that has a counter
So that I can keep track of how many times something was done

Details and Assumptions

- Need a way to increment a counter
- Need a way to get the current value

Acceptance Criteria

Given I have incremented the counter to 2
When I make a call to get the current value
Then it should return 2 as the counter value

+ Add item

Assignees: No one - Assign yourself

Labels: enhancement

Projects: Select an item

Sprint 1 • May 23 - Jun 5 • Current (highlighted)

Sprint 2 • Jun 6 - Jun 19

Sprint 3 • Jun 20 - Jul 3

Sprint: Choose an iteration

Your story should look like the one below. Click the X to close the story window and get back to the Kanban board.

Zehra539 / Projects / Lab Agile Planning

Need a service that has a counter #1

Open | Zehra539/lab-agile-planning | Public

New issues

Zehra539 opened last week

As a User
I need a service that has a counter
So that I can keep track of how many times something was done

Details and Assumptions

- Need a way to increment a counter
- Need a way to get the current value

Acceptance Criteria

Given I have incremented the counter to 2
When I make a call to get the current value
Then it should return 2 as the counter value

+ Add item

Assignees: No one - Assign yourself

Labels: enhancement

Projects: Lab Agile Planning

Status: Product Backlog (highlighted)

Priority: Filter options

Size: Filter options

Estimate: 8

Start date: No date

End date: No date

Sprint: Sprint 1 • May 23 - Jun 5 • Current (highlighted)

The development team has determined that adding an 8 point story to the sprint is acceptable. Drag the story from the Product Backlog to the Sprint Backlog.

Note: You can view the start and end dates for the user story by hovering your mouse over the Sprint displayed on the tile.

Zehra539 / Projects / Lab Agile Planning

Lab Agile Planning

Backlog | Priority board | Team items | Roadmap | In review | My items | View 7 | New view

Add status update | Discard | Save

Filter by keyword or by field

New issues 0 / 7 Estimate: 0

Icebox 2 Estimate: 0

Product Backlog 5 / 7 Estimate: 8

Sprint Backlog 0 / 5 Estimate: 0

lab-agile-planning #2 Must allow multiple counters

lab-agile-planning #6 Need the ability to remove a counter

lab-agile-planning #1 Need a service that has a counter Sprint: Sprint 1 May 23 - Jun 05 (highlighted)

lab-agile-planning #3 Must persist counter across restarts enhancement

lab-agile-planning #5 Deploy service to the cloud technical debt

A red arrow points from the Sprint Backlog section towards the Product Backlog section.

Your Kanban board should now look like the one below. Notice that the story point estimate and sprint dates are annotations on the story.

ZebraHR / Projects / Lab Agile Planning

Type to search

Add status update | Discard | Save

Filter by keyword or by field

Icebox 2 Estimate: 0

- lab-agile-planning #2 Must allow multiple counters
- lab-agile-planning #6 Need the ability to remove a counter

Product Backlog 4/7 Estimate: 0

- lab-agile-planning #3 Must persist counter across restarts enhancement
- lab-agile-planning #5 Deploy service to the cloud technical debt
- lab-agile-planning #4 Counters can be reset enhancement

Sprint Backlog 1/5 Estimate: 8

- lab-agile-planning #1 Need a service that has a counter enhancement Sprint 1

In Progress 0 Estimate: 0

+ Add item

+ Add item

+ Add item

The sprint planning meeting has proceeded nicely. In discussions with the development team, they have estimated the next two stories in the **Product Backlog** and determined that they can both fit in the current sprint. Select each of the following stories in the **Product Backlog**, assign them the corresponding story points and the same **Sprint**, and drag them to the **Sprint Backlog** in the same order.

| Story Title | Story Points |
|--------------------------------------|--------------|
| Must persist counter across restarts | 5 |
| Deploy service to the cloud | 5 |

At the end of this step, your sprint plan should look like this:

| Story Title | Story Points |
|--------------------------------------|--------------|
| Must persist counter across restarts | 5 |
| Deploy service to the cloud | 5 |

At the end of this step, your sprint plan should look like this:

ZebraHR / Projects / Lab Agile Planning

Type to search

Add status update | Discard | Save

Filter by keyword or by field

Icebox 2 Estimate: 0

- lab-agile-planning #2 Must allow multiple counters
- lab-agile-planning #6 Need the ability to remove a counter

Product Backlog 2/7 Estimate: 0

- lab-agile-planning #4 Counters can be reset enhancement
- lab-agile-planning #7 Need the ability to update a counter to a new value enhancement

Sprint Backlog 3/5 Estimate: 18

- lab-agile-planning #1 Need a service that has a counter enhancement Sprint 1
- lab-agile-planning #3 Must persist counter across restarts enhancement Sprint 1
- lab-agile-planning #5 Deploy service to the cloud technical debt Sprint 1

In Progress 0 Estimate: 0

+ Add item

+ Add item

+ Add item

8. Based on the team's velocity, the development team has decided there are enough stories in the sprint, but there is some time left in the sprint planning meeting to estimate more stories. Add the following estimates to the stories in the **Product Backlog**.

| Story Title | Story Points |
|---|--------------|
| Counters can be reset | 3 |
| Need ability to update a counter to new value | 5 |

At the end of this exercise, your Kanban board should look like this:

ZebraHR / Projects / Lab Agile Planning

Type to search

Add status update | Discard | Save

Filter by keyword or by field

Icebox 2 Estimate: 0

- lab-agile-planning #2 Must allow multiple counters
- lab-agile-planning #6 Need the ability to remove a counter

Product Backlog 2/7 Estimate: 8

- lab-agile-planning #4 Counters can be reset enhancement
- lab-agile-planning #7 Need the ability to update a counter to a new value enhancement

Sprint Backlog 3/5 Estimate: 18

- lab-agile-planning #1 Need a service that has a counter enhancement Sprint 1
- lab-agile-planning #3 Must persist counter across restarts enhancement Sprint 1
- lab-agile-planning #5 Deploy service to the cloud technical debt Sprint 1

In Progress 0 Estimate: 0

+ Add item

+ Add item

+ Add item

Summary

You learned how to set up your sprints. You also learned how to assign story points to stories, assign stories to a sprint, and assemble a sprint plan from your product backlog.

Author(s)

Rajahere Patil
Zebra Atul



Skills Network