

Lab: Assemble Your Product Backlog Using GitHub

Estimated time needed: 20 minutes

In this lab, you will create seven user stories based on the requirements given. The first four will be given to you. You only have to cut and paste them to get familiar with creating user stories in GitHub. You will have to create the last three user stories yourself. You will then prioritize these stories and move them into appropriate columns on your Kanban board.

Objectives

After completing this lab, you will be able to:

1. Create new user stories using GitHub issues.
2. Prioritize the product backlog.

Exercise 1: Create new user stories using GitHub issues

In this exercise, you will create the following user stories using GitHub issues:

Stories from the lesson:

Title: Need a service that has a counter

- As a user, I need a service that has a counter so that I can keep track of how many times something has been done.

Title: Must allow multiple counters

- As a user, I need to have multiple counters so that I can keep track of several counts at once.

Title: Must persist counter across restarts

- As a service provider, I need the service to persist the last known count so that users don't lose track of their counts after the service is restarted.

Title: Counters can be reset

- As a system administrator, I need the ability to reset the counter so that I can redo counting from the start.

New requirements:

- Deploy service to the cloud
- Need the ability to reset a counter
- Need the ability to update a counter to a new value

Prerequisite:

Please ensure that you have created the issue template. If the template hasn't been created yet, kindly complete this lab [Hands-on Lab: Create an issue template in GitHub](#).

1. Go to the Issues tab of lab-agile-planning repository.

The screenshot shows the GitHub interface for the repository 'RajshriSkillup / lab-agile-planning'. The 'Issues' tab is selected, showing a single issue titled 'Update issue templates' created by 'RajshriSkillup' 1 minute ago. The repository has 1 branch and 0 tags. It shows 2 commits and 0 forks. The README file is present.

2. Click on the New issue button.

The screenshot shows the GitHub interface for the repository 'RajshriSkillup / lab-agile-planning'. The 'Issues' tab is selected, showing a message 'Welcome to issues!'. A red box highlights the 'New issue' button in the top right corner of the search bar.

3. You'll see your template listed here. Click on the User Story arrow.

The screenshot shows the GitHub interface for the repository 'RajshriSkillup / lab-agile-planning'. The 'Issues' tab is selected, showing a search bar with 'is:issue state:open'. Below it, there are filters for Open (0) and Closed (0) issues. A red box highlights the 'User Story' template in the 'Create new issue' dialog. The dialog also shows the 'Blank issue' template and a link to 'Edit templates'.

4. Enter the title for the first story as **Need a service that has a counter** and update the user story section (i.e., As a, I need, So that) for now. Once done, click **Create** button.

[Code](#) [Issues](#) [Pull requests](#) [Actions](#) [Projects](#) [Wiki](#) [Security](#) [Insights](#) [Settings](#)

Create new issue

User Story · Choose a different template

Add a title *

Need a service that has a counter

Add a description

Write Preview

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
 * [document what you know]

Acceptance Criteria

```gherkin  
 Given [some context]  
 When [certain action is taken]  
 Then [the outcome of action is observed]  
 ...

Paste, drop, or click to add files

Create more

5. Your first user story is now created and should resemble the screenshot shown below.

RajshriSkillup / lab-agile-planning

< Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Need a service that has a counter #1

[Open](#) RajshriSkillup opened this issue now · 0 comments

RajshriSkillup commented now

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

- [document what you know]

Acceptance Criteria

Given [some context]  
 When [certain action is taken]  
 Then [the outcome of action is observed]

Owner: ...

Assignees: No one—assign yourself

Labels: None yet

Projects: None yet

Milestone: None yet

Development: Create a branch for this issue or link a pull request.

Notifications: Customize

6. To add the created user story to the Kanban board, click the settings button next to the Projects option, and then choose the Lab Agile Planning project from the dropdown that you created in the [Handling Lab Git Set Up in GitHub](#).

RajshriSkillup / lab-agile-planning

< Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Need a service that has a counter #1

[Open](#) RajshriSkillup opened this issue 17 hours ago · 0 comments

RajshriSkillup commented 17 hours ago

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

- [document what you know]

Acceptance Criteria

Given [some context]  
 When [certain action is taken]  
 Then [the outcome of action is observed]

Owner: ...

Assignees: No one—assign yourself

Labels: None yet

Projects:  Recent Repository User

Lab Agile Planning RajshriSkillup

Notifications: Customize

7. Next, select the Status dropdown menu and choose New Issues. This action will move the created user story to the 'New Issues' column on the Kanban board.

## Need a service that has a counter #1

[Open](#) RajshriSkillup opened this issue 17 hours ago · 0 comments

Edit New issue

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**

- [document what you know]

**Acceptance Criteria**

```
Given [some context]
When [certain action is taken]
Then [the outcome of action is observed]
```

**Assignees**: No one → assign yourself

**Labels**: None yet

**Projects**: Lab Agile Planning (status: no status)

**New issues**: Icebox, Product Backlog, Sprint Backlogs, In Progress, Done

**Notifications**: Customize

8. To view the newly created user story on the Kanban board, navigate to the **Projects** tab and select the project titled **Lab Agile Planning**.

RajshriSkillup / lab-agile-planning

Code Issues Pull requests Actions Projects 1 Wiki Security Insights Settings

Q Type ⌘ to search

isopen

Link a project

Sort ▾

Open 0 Closed

Lab Agile Planning Private

9. You'll notice that the newly created user story is now listed under the **New issues** column.

Lab Agile Planning

Backlog Priority board Team items Roadmap In review My items New view

Add status update Discard Save

Filter by keyword or by field

| New issues                                                 | Icebox     | Product Backlog | Sprint Backlogs | In Prog    |
|------------------------------------------------------------|------------|-----------------|-----------------|------------|
| Lab-agile-planning #1<br>Need a service that has a counter | + Add item | + Add item      | + Add item      | + Add item |

10. Since we have to create a total of seven user stories, let's adjust the default limit to 7. To achieve this, click the three dots from the **New issues** column, then select the **Set limit** option.

Lab Agile Planning

Backlog Priority board Team items Roadmap In review My items New view

Add status update Discard Save

Filter by keyword or by field

| New issues                                                 | Icebox     | Product Backlog | Sprint Backlogs | In Prog    |
|------------------------------------------------------------|------------|-----------------|-----------------|------------|
| Lab-agile-planning #1<br>Need a service that has a counter | + Add item | + Add item      | + Add item      | + Add item |

New issues 1/5 Estimate: 0 ...

Items

Archive all Delete all

Column

Set limit

Edit details Hide from view Delete

11. Enter the limit as 7 in the **Column limit** text field and click **Save**.

**New issues** 1/5 Estimate: 0

**Icebox** 0 Estimate: 0

**Product Backlog** 0/3 Estimate: 0

**Sprint Backlogs** 0/5 Estimate: 0

**In Progress** 0 Estimate: 0

Please note that, similar to this, you can choose to modify the limits of other columns or keep the default limits.

12. To return to the 'Issues' tab for creating new user stories, simply click on the browser's back button.

**New issues** 1/7 Estimate: 0

**Icebox** 0 Estimate: 0

**Product Backlog** 0/3 Estimate: 0

**Sprint Backlogs** 0/5 Estimate: 0

**In Progress** 0 Estimate: 0

13. Continue adding stories until all seven are created and your Kanban board resembles the screenshot shown below. The first four stories are provided in the lesson. You will need to create your own role, function, and benefit for the last three stories.

**New issues** 7/7 Estimate: 0

**Icebox** 0 Estimate: 0

**Product Backlog** 0/3 Estimate: 0

**Sprint Backlog** 0/5

- lab-agile-planning #1**  
Need a service that has a counter
- lab-agile-planning #2**  
Must allow multiple counters
- lab-agile-planning #3**  
Must persist counter across restarts
- lab-agile-planning #4**  
Counters can be reset
- lab-agile-planning #5**  
Deploy service to the cloud
- lab-agile-planning #6**  
Need the ability to remove a counter
- lab-agile-planning #7**  
Need the ability to update a counter to a new value

#### Exercise 2: Prioritize the product backlog

In this exercise, you will move issues between columns to recreate the Kanban board from the video lesson **Building the Product Backlog**. This will simulate an initial starting point for our next lab on backlog refinement. Please note that you can move the issues between columns by simply dragging and dropping them from one column to the other.

1. Move the **Need a service that has a counter** story to the top of the **Product Backlog** column.
2. Move the **Must allow multiple counters** story to the **Icebox** column.
3. Move the **Must persist counter across restarts** story to the bottom of the **Product Backlog** column.
4. Move the **Counters can be reset** story to the bottom of the **Product Backlog** column.
5. Leave the remaining stories in the **New Issues** column for now. We will move them in a later lab.

At the completion of this exercise, your Kanban board should look like the one shown below:

**Lab Agile Planning**

Add status update

Backlog Priority board Team items Roadmap In review My items + New view

Filter by keyword or by field

New issues 3 / 7 Estimate: 0 ...

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

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

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

Icebox 1 Estimate: 0 ...

lab-agile-planning #2 Must allow multiple counters

Product Backlog 3 / 3 Estimate: 0 ...

Need a service that has a counter

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

lab-agile-planning #4 Counters can be reset

Sprint Backlog 0 / 5

+ Add item + Add item + Add item + Add item

**Summary**

You learned how to create new stories in GitHub using Issues in GitHub and a User Story template. You also learned how to quickly prioritize your product backlog. You now have enough stories in your repository to start planning with GitHub.

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