

Lab: Get Set Up in GitHub

Estimated time needed: 20 minutes

In this lab, you will create a GitHub account and repository which will be required for further labs.

Objectives

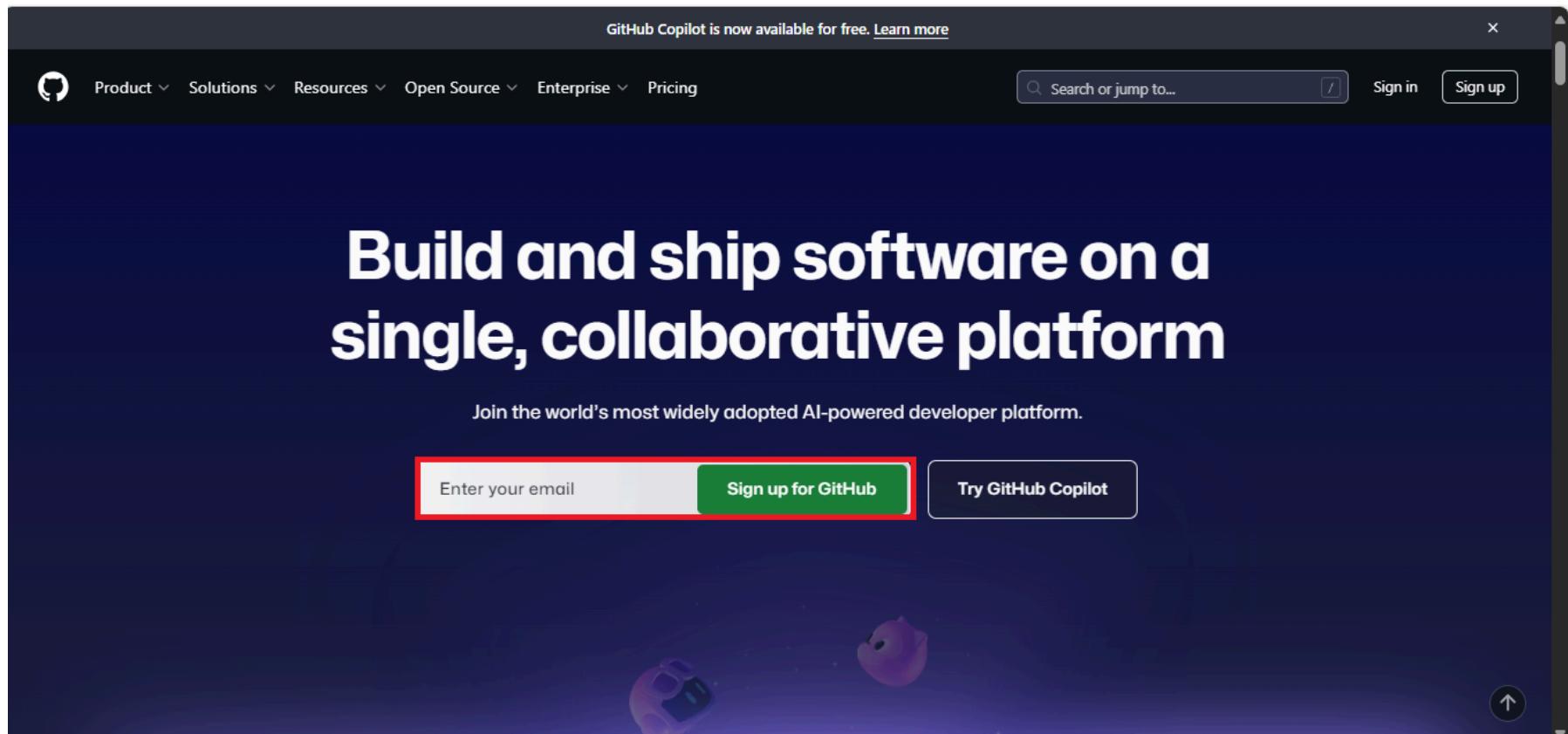
After completing this lab, you will be able to:

1. Create a free GitHub account.
2. Create a GitHub repository.
3. Create a Kanban board.

Exercise 1: Create a free GitHub account

In this exercise, you will create a free GitHub account, if you don't already have one.

1. Go to [GitHub.com](https://github.com) and sign up for a free GitHub account.
2. Enter your email address and press the **Sign up for GitHub** button. If you have an account, press the **Sign in** button and login.



3. Enter the required information to create an account as shown below and click '**Continue**'.

Already have an account? [Sign in →](#)

Sign up to GitHub

Email*

Password*

Password should be at least 15 characters OR at least 8 characters including a number and a lowercase letter.

Username*

Username may only contain alphanumeric characters or single hyphens, and cannot begin or end with a hyphen.

Continue >

By creating an account, you agree to the [Terms of Service](#). For more information about GitHub's privacy practices, see the [GitHub Privacy Statement](#). We'll occasionally send you account-related emails.

4. Verify the account according to the option suitable for you.

Already have an account? [Sign in →](#)

Verify your account

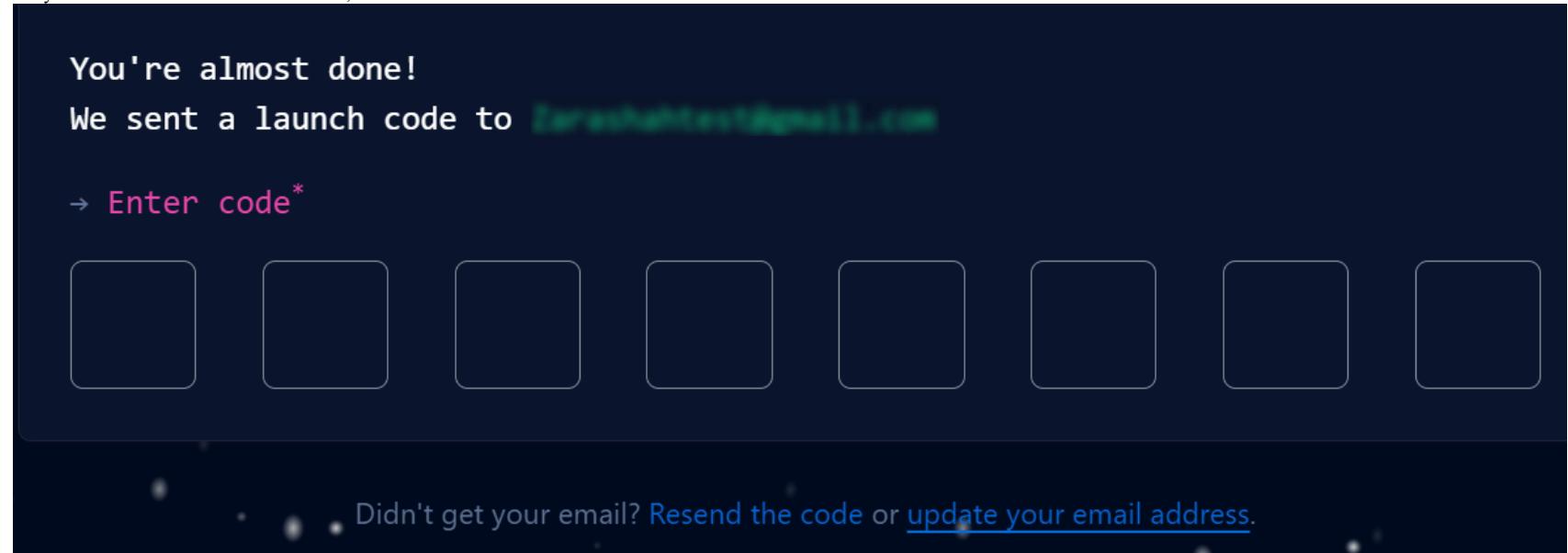
Please solve a puzzle so we can safely create your account.

[Visual puzzle](#)

 [Audio puzzle](#)

5. You may receive a verification email from GitHub. Click the enclosed link to verify your email or enter the provided verification code.

Note: If you do not receive a verification email, click **Resend the code**.



6. After entering the provided verification code, you will see a screen as shown below indicating that you are logged into your account and ready to start using it.

The screenshot shows the GitHub Home page. At the top left is the 'Dashboard' button. A search bar at the top right contains the placeholder 'Type ⌘ to search'. Below the search bar are several icons: a magnifying glass, a dropdown arrow, a plus sign, a circular arrow, a double arrow, an envelope, and a gear.

Create your first project

Ready to start building? Create a repository for a new idea or bring over an existing repository to keep contributing to it.

[Create repository](#) [Import repository](#)

Recent activity

When you take actions across GitHub, we'll provide links to that activity here.

Home

[Send feedback](#) [Filter 8](#)

Updates to your homepage feed

We've combined the power of the Following feed with the For you feed so there's one place to discover content on GitHub. There's improved filtering so you can customize your feed exactly how you like it, and a shiny new visual design. ✨

[Learn more](#)

Start writing code

Start a new repository

A repository contains all of your project's files, revision history, and collaborator discussion.

shree1113 /

Public
Anyone on the internet can see this repository

Private
You choose who can see and commit to this repository

[Create a new repository](#)

Introduce yourself with a profile README

Share information about yourself by creating a profile README, which appears at the top of your profile page.

shree1113 / README.md [Create](#)

```

1 - 🎉 Hi, I'm @shree1113
2 - 🚀 I'm interested in ...
3 - 🚧 I'm currently learning ...
4 - 💬 I'm looking to collaborate on ...
5 - 📩 How to reach me ...
6

```

Latest changes

- 9 hours ago Actions – Prevent self-reviews for secure deployments across Actions environments
- 3 days ago Secret scanning supports validity checks for Discord tokens
- 5 days ago Repository Rules – Public Beta – History, Import, Export
- 5 days ago GitHub Repository Custom Properties Beta

[View changelog →](#)

Use tools of the trade

Explore repositories

[...](#)

UNIVERSE23

Get your AI questions answered.
We know you have some.

Get free virtual tickets to our global developer event on Nov. 8-9.

[Get free tickets](#)

Exercise 2: Create a GitHub repository

In this exercise, you will create a GitHub repository to hold the issues.

1. If you just created your GitHub account, create your first repository by pressing the **Create repository** button, then go to step 3.

The screenshot shows a GitHub landing page with several UI elements and annotations:

- Top Bar:** Standard OS X-style window controls (red, yellow, green buttons), a tab bar with two open tabs, and a shield icon.
- Header:** GitHub logo, search bar containing "Search or jump to...", a slash icon, and "Pull requests" link.
- Main Content Area:**
 - Create your first project:** Text instructions: "Ready to start building? Create a repository for a new idea or bring over an existing repository to keep contributing to it." Below this is a large green button labeled "Create repository".
 - All activity:** A sidebar section showing a snippet of a README file with text about introducing yourself.
- Bottom Navigation:** "Import repository" link and a "Recent activity..." link.
- Annotations:**
 - A red arrow points from the text "Press the C" in the bottom right towards the "Create repository" button.
 - A red rounded rectangle highlights the "Create repository" button.

Recent activity

When you take actions across GitHub, we'll provide links to that activity here.

Working with a team?

GitHub is built for collaboration.

- 4 -  I'm looking
- 5 -  How to reac
- 6

Discover inte

2. If you already have a GitHub account, sign into GitHub and on your account page, press the New repository button.

A screenshot of a GitHub repository page. At the top, there's a navigation bar with three dots (red, yellow, green), a window icon, and back/forward arrows. To the right is a shield icon and a dark grey bar. The main header features the GitHub logo, a search bar with the placeholder "Search or jump to...", a slash icon, and a "Pull requests" button. Below the header, on the left, is a "Repositories" section with a "New" button highlighted by a red box and a red arrow pointing to it from the right. A red box also covers the text "Press t". The main content area shows two repositories: "devopstudent/lab-travis-ci" and "devopstudent/lab-github-intro". On the right, there's a sidebar with "Recent activity" and a "Introduce yourself" section. The bottom right corner shows a snippet of the README file for "devopstudent / README.md".

Repositories

New

All activity

Press t

Find a repository...

devopstudent/
lab-travis-ci

devopstudent/
lab-github-intro

Recent activity

Introduce yourself

The easiest way to intro
README in a repository ↗

devopstudent / README.md

1 - 🙋 Hi, I'm @de
2 - 👀 I'm interes
3 - 🌱 I'm current

When you take actions across GitHub, we'll provide links to that activity here.

Working with a team?

GitHub is built for collaboration. Set up an organization to improve the way your team works together, and get access to more features

- 4 -  I'm looking
- 5 -  How to reac
- 6

Discover inte

3. Name your repository **lab-agile-planning** and give it a good description like: *This repository contains the lab for agile planning* and make sure the **Public** option is selected.

The screenshot shows a GitHub interface on a Mac OS X desktop. The window title bar includes standard OS X controls (red, yellow, green buttons, close, minimize, maximize) and a shield icon. The main header features the GitHub logo, a search bar with placeholder text 'Search or jump to...', a '/ issues' button, and a 'Pull requests' link. The main content area is titled 'Create a new repository'. It explains what a repository is and provides a link to 'Import a repository'. Below this, there are fields for 'Owner *' (set to 'devopstudent') and 'Repository name' (containing 'lab-agile-planr'). A red box highlights the 'Repository name' field. A note at the bottom encourages users to choose a short and memorable name.

Search or jump to... / Pull requests

Create a new repository

A repository contains all project files, including elsewhere? [Import a repository](#).

Owner *

devopstudent

Repository name

lab-agile-planr

Great repository names are short and memorable

Description (optional)

This repository contains the lab for agile plai



Public

Anyone on the internet can see this reposi



Private

You choose who can see and commit to th

4. Scroll down on that page and select **Add a README file** and then press the **Create repository** button to create the new repository.

Description (optional)
This repository contains the lab for agile planning.

 **Public**
Anyone on the internet can see this repository.

 **Private**
You choose who can see and commit to this repository.

Initialize this repository with:
Skip this step if you're importing an existing repository.

Add a README file

This is where you can write a long description of your repository.

Add .gitignore

Choose which files not to track from a list of temporary files.

 Choose a license

A license tells others what they can and can't do with your code.

This will set  master as the default branch.

Create repository

Pro

You should now have a new repository called **lab-agile-planning**. It should look similar to the screenshot below:

The screenshot shows a GitHub repository page. At the top, there are standard browser controls (red, yellow, green buttons, back, forward, refresh) and a shield icon. Below the header is a dark navigation bar with the GitHub logo, a search bar containing "Search or jump to...", and links for "Pull requests" and "Issues". The main title of the repository is "devopstudent / lab-agile-planning". Below the title, there are navigation tabs: "Code" (selected), "Issues", "Pull requests", and "Actions". Underneath these tabs, there are status indicators: "master" branch, "1 branch", and "0 tags". A large blue button on the right side has a partially visible "C" character. The main content area displays a commit from "devopstudent" titled "Initial commit", which includes a file named "README.md" with the content "Initial commit".

Search or jump to... /

Pull requests Issues

devopstudent / lab-agile-planning

<> Code Issues Pull requests Actions

master ▾ 1 branch 0 tags

devopstudent Initial commit

README.md Initial commit

README.md

lab-agile-planning

This repository contains the lab for agile planning

Exercise 3: Setting up a Kanban board for "lab-agile-planning" repository

In this exercise, you will learn how to set up a Kanban board using GitHub **Projects** for the "lab-agile-planning" repository.

1. Navigate to the **lab-agile-planning** repository on GitHub, which you created in Exercise 2.
2. Once you are in the repository page, click on the **Projects** tab, as shown in the below screenshot.

Zehra539 / lab-agile-planning

<> Code Issues Pull requests Zenhub Actions Projects Wiki Security Insights

lab-agile-planning Public

main ▾ 1 Branch 0 Tags Go to file t

Zehra539 Initial commit ab5acdb · 1

README.md Initial commit

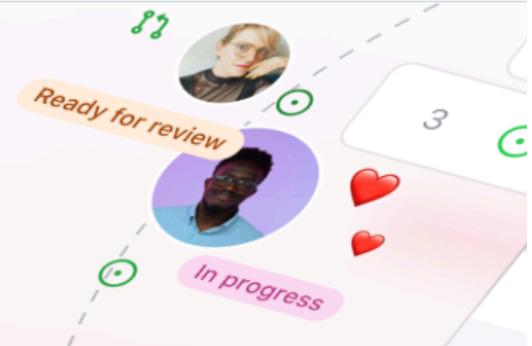
README

lab-agile-planning

3. Next to the **Link project** button, click the dropdown menu and choose **New Project**.

Welcome to the all-new projects

Built like a spreadsheet, project tables give you a live canvas to filter, sort, and group issues and pull requests. Tailor them to your needs with custom fields and saved views.

[Learn more](#)

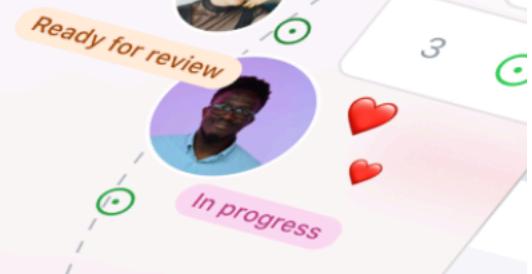
🔍 is:open

📁 0 Open 📁 0 Closed

4. After clicking on the **New Project** button, a pop-up to create a project will appear. Select **Kanban** as shown in the screenshot.

Welcome to the all-new projects

Built like a spreadsheet, project tables give you a live canvas to filter, sort, and group issues and pull requests. Tailor them to your needs with custom fields and saved views.

[Learn more](#)

🔍 is:open

📁 0 Open 📁 0 Closed

Create project

[Project templates](#)

Featured

[Start from scratch](#)

[Table](#)

[Board](#)

[Roadmap](#)

Search templates

Featured

Team planning
Manage your team's work items, plan upcoming cycles, and understand team capacity

This screenshot shows a Kanban board with three columns: To do, In progress, and Done. Each column has a count of items (e.g., 6, 2, 2) and a brief description of the items.

- To do:** 6 items. Descriptions include: "This item hasn't been started", "Planning tracking items #4001", "Create user account and subscription", and "Add a feedback form for clients".
- In progress:** 2 items. Descriptions include: "Planning tracking items #4002" and "Integrate with Commerce Service".
- Done:** 2 items. Descriptions include: "Planning tracking items #4003" and "Integrate with Commerce Service".

Buttons at the bottom: + Add item, + Add item, + Add item.

Team planning • GitHub

Manage your team's work items, plan upcoming cycles, and understand team capacity

Feature release
Manage your team's prioritized work items when planning for a feature release

This screenshot shows a prioritized backlog with items categorized by priority (P1, P2, P3) and status (In progress, To do, In review). Each item includes a brief description and a due date.

Priority	Status	Title	Due Date
P1	In progress	Update to velocity of the shop and alien movements	2022-01-15
P2	In progress	Create user account and subscription	2022-01-15
P2	In progress	Preview user model	2022-01-15
P2	In progress	Add a feedback form for Europe	2022-01-15
P3	To do	Take score across levels	2022-01-15
P3	To do	Review engagement metric when points are live	2022-01-15

+ Add item

Feature release • GitHub

Manage your team's prioritized work items when planning for a feature release

Kanban
Visualize the status of your project and limit work in progress

This screenshot shows a Kanban board with five columns: Backlog, Ready, In progress, In review, and Done. Each column has a count of items (e.g., 5, 1, 2, 1, 1) and a brief description of the items.

- Backlog:** 5 items. Descriptions include: "This item hasn't been started", "Planning tracking items #4001", and "Planning tracking items #4002".
- Ready:** 1 item. Description: "This is ready to be picked up".
- In progress:** 2 items. Descriptions include: "Planning tracking items #4003" and "Planning tracking items #4004".
- In review:** 1 item. Description: "This item is in review".
- Done:** 1 item. Description: "Completed tracking items #4005".

Buttons at the bottom: + Add item, + Add item, + Add item.

Kanban • GitHub

Visualize the status of your project and limit work in progress

Bug tracker
Track and triage your bugs

This screenshot shows a prioritized backlog with items categorized by priority (P1, P2, P3) and status (To triage, In progress, Done). Each item includes a brief description and a due date.

Priority	Status	Title	Due Date
P1	To triage	Integrate with Commerce Service	2022-01-15
P2	In progress	Update tracking items #4006	2022-01-15
P2	In progress	Integrate with Commerce Service	2022-01-15
P3	Done	Integrate tracking items #4007	2022-01-15

+ Add item

Bug tracker • GitHub

Track and triage your bugs

5. Name your project as **Lab Agile Planning** and proceed by clicking on **Create project** button.

[← Create project](#)

Kanban • GitHub

Visualize the status of your project and limit work in progress

Project name

Lab Agile Planning

Kanban

Visualize the status of your project and limit work in progress

[Backlog](#) [Priority board](#) [Team items](#) [Roadmap](#) [In review](#) + New view

Filter by keyword or by field

● Backlog 2 / 5 Estimate: 3 ...

This item hasn't been started

● planning-tracking-demo #1366

Explore a bug

● planning-tracking-demo #821

Updates to alien, beam, bomb and cannon sprites

● Ready 1 Estimate: 1 ...

This is ready to be picked up

● planning-tracking-demo #797

Easter egg with high score unlocking new paid levels

● In progress 2 / 3 Estimate: 2 ...

This is actively being worked on

● planning-tracking-demo #1304

Make sure that it delights customers

● planning-tracking-demo #829

Hero site - Copy

● In review 1 / 5 Estimate: 1 ...

This item is in review

● planning-tracking-demo #1101

[Tracking] Integrate payments

Create

6. On the project Kanban board, you'll have columns to represent different stages of your workflow such as "Backlog", "Ready", "In Progress", "In review", and "Done." You can add custom columns based on your workflow requirements.

Lab Agile Planning

[Backlog](#)[Priority board](#)[Team items](#)[Roadmap](#)[In review](#)[My items](#)[+ New view](#)[Filter by keyword or by field](#)**Backlog**

0 / 5

Estimate: 0

This item hasn't been started

Ready

0

Estimate: 0

This is ready to be picked up

In progress

This is actively being

[+ Add item](#)[+ Add item](#)[+ Add item](#)

7. To customize or modify the column name, click on the three dots and then select `Edit details`.

The screenshot shows a Kanban board with three columns: Backlog, Ready, and In progress. The Backlog column is currently selected, indicated by a red box around its title. A context menu is open over the column header, listing the following options:

- Items
- Archive all
- Delete all
- Column
- Set limit (with a note: 13)
- Edit details (highlighted with a red box)
- Hide from view
- Delete (in red text)

The Ready and In progress columns are also visible but are not the active target of the context menu.

8. When you click on **Edit details**, a popup will appear, as shown in the screenshot below. Enter the required column name into the highlighted text box. You can add an appropriate description or choose to remove it, then click **Save** to confirm the changes.

Edit option

X

New issues**Label text *****New issues****Color****Description**

This item hasn't been started

Visible in group headers and value pickers

Cancel**Save**

9. Similarly, let's rename the remaining columns as follows:

- o Rename the **Ready** column to **Icebox**.
- o Leave the **In progress** column as it is.
- o Rename the **In review** column to **Review/QA**.
- o Leave the **Done** column as it is.

After making the above changes, your Kanban board will look like this:

The screenshot shows a web-based agile planning interface titled "Lab Agile Planning". At the top, there are navigation links: "Backlog" (selected), "Priority board", "Team items", "Roadmap", "In review", "My items", and "New view". A search bar is also present. Below the header, a "Filter by keyword or by field" button is shown.

The main area displays a "Priority board" with four columns:

- New issues**: 0 / 5 Estimate: 0
- Icebox**: 0 Estimate: 0
- In progress**: 0 / 3 Estimate: 0
- Review/QA**: 0 / 5 Estimate: 0

Each column has a "..." button and a "+ Add item" button at the bottom.

10. To Add a new column, navigate to the end of the existing columns and click on the + button. Then, select New column from the options. Enter the column name as **Product Backlog** into the Label text field, and finally, click Save to apply the changes.

The screenshot shows a web-based agile planning interface titled "Lab Agile Planning". At the top, there's a navigation bar with links for "Backlog", "Priority board", "Team items", "Roadmap", "In review", "My items", and "New view". A search bar is also present. Below the navigation, a filter bar allows users to "Filter by keyword or by field". The main area displays a priority board with four columns:

- Backlog**: Shows 0 items with an estimate of 0.
- Icebox**: Shows 0 items with an estimate of 0.
- In progress**: Shows 0 / 3 items with an estimate of 0.
- Review/QA**: Shows 0 / 5 items with an estimate of 0.

Each column has a "Add item" button at the bottom. The interface uses a clean, modern design with light colors and clear typography.

The screenshot shows a Kanban board interface with several columns: 'Backlog', 'Priority board', 'Team items', 'Roadmap', 'In review', and 'Review/QA'. A search bar at the top right says 'Type ⌘ to search'. In the center, a modal dialog box is open with the title 'New option'. Inside the dialog, there's a yellow button labeled 'Product Backlog' above a text input field containing 'Product Backlog', which is highlighted with a red box. Below that is a 'Color' section with a checked brown circle and other unselected color options. There's also a 'Description' section with an empty text area. At the bottom of the dialog, there are 'Cancel' and 'Save' buttons, with the 'Save' button also highlighted with a red box. The background shows the Kanban board with columns like 'Icebox' and 'In progress'.

11. To set the correct sequence for the Kanban board, drag the **Product Backlog** column and drop it before the **In Progress** column. The arrow in the screenshot below indicates from where you need to drag and drop the column.

The screenshot shows a Kanban board interface with the following details:

- Header:** Projects / Lab Agile Planning
- Navigation:** Backlog, Priority board, Team items, Roadmap, In review, My items, New view.
- Search:** Type to search
- Filter:** Filter by keyword or by field
- Columns:**
 - Backlog:** Estimate: 0, 0 / 3 items, Estimate: 0.
 - In progress:** Orange circle icon, 0 / 3 items, Estimate: 0. This column has a red arrow pointing to it from the left.
 - Review/QA:** Pink circle icon, 0 / 5 items, Estimate: 0.
 - Done:** Orange circle icon, 0 items, Estimate: 0.
- Add Item Buttons:** + Add item button at the bottom of each column.

12. Similarly, create the **Sprint Backlogs** column, and then rearrange it to resemble the Kanban board shown below.

The screenshot shows a GitHub project named "Lab Agile Planning". The interface includes a navigation bar with "Backlog", "Priority board", "Team items", "Roadmap", "In review", "My items", and "New view". A search bar at the top right says "Type ⌘ to search". Below the navigation is a filter bar with "Filter by keyword or by field". The main area displays four columns: "New issues" (green circle), "Icebox" (blue circle), "Product Backlog" (orange circle), and "Sprint Backlogs" (purple circle). Each column shows "0 / 5 Estimate: 0" and a three-dot menu icon. At the bottom of each column is a "+ Add item" button.

Summary

Congratulations! You've set up your GitHub account, repository, and Kanban board, which you will be using in the upcoming labs.

Author(s)

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Skills Network