



# Automating Practical Classroom with GitHub Classroom

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# Learning Objectives

- Upon completion of this session, you will learn about:
  - GitHub Classroom
  - Creating Classroom
  - Creating Template Repository
  - Creating Assignment

# What is Git?

- Git is an open-source distributed version control system that was designed and developed by Linus Torvalds (creator of Linux) in 2005
- Initially was created for the purpose of Linux kernel development community
- Git is a content tracker. So Git can be used to store content, specifically to store code due to the other features it provides
- Git tracks each object in a repository; A repository is the unit of separation between projects in Git.

# What is GitHub?

- When you created a Git repository by using the `git init` command, Git will create the repository at your local computer.
- This would be a “problem” if you would like to work on a project collaboratively.
- Setting up a hosted/remote repository is one of the solution to solve this “problem”.
- GitHub is one of the service providers that provides hosted Git repository as a service.

# What is GitHub Education?

- GitHub Education is a community program from GitHub that helps students, teachers, and schools access the tools and events they need to shape the next generation of software development.
- The program is open to education communities from high schools to universities/colleges, and they could join for free.
- For more information : <https://education.github.com>

# GitHub Classroom

- GitHub Classroom is a product from GitHub (part of GitHub Education program) that helps trainers/educators to create repositories for students for their classroom assignments.
- Automatically provision repositories for each student and allow trainers/educators to keep track each repository that has been provisioned to the students.
- For more information: <https://classroom.github.com>

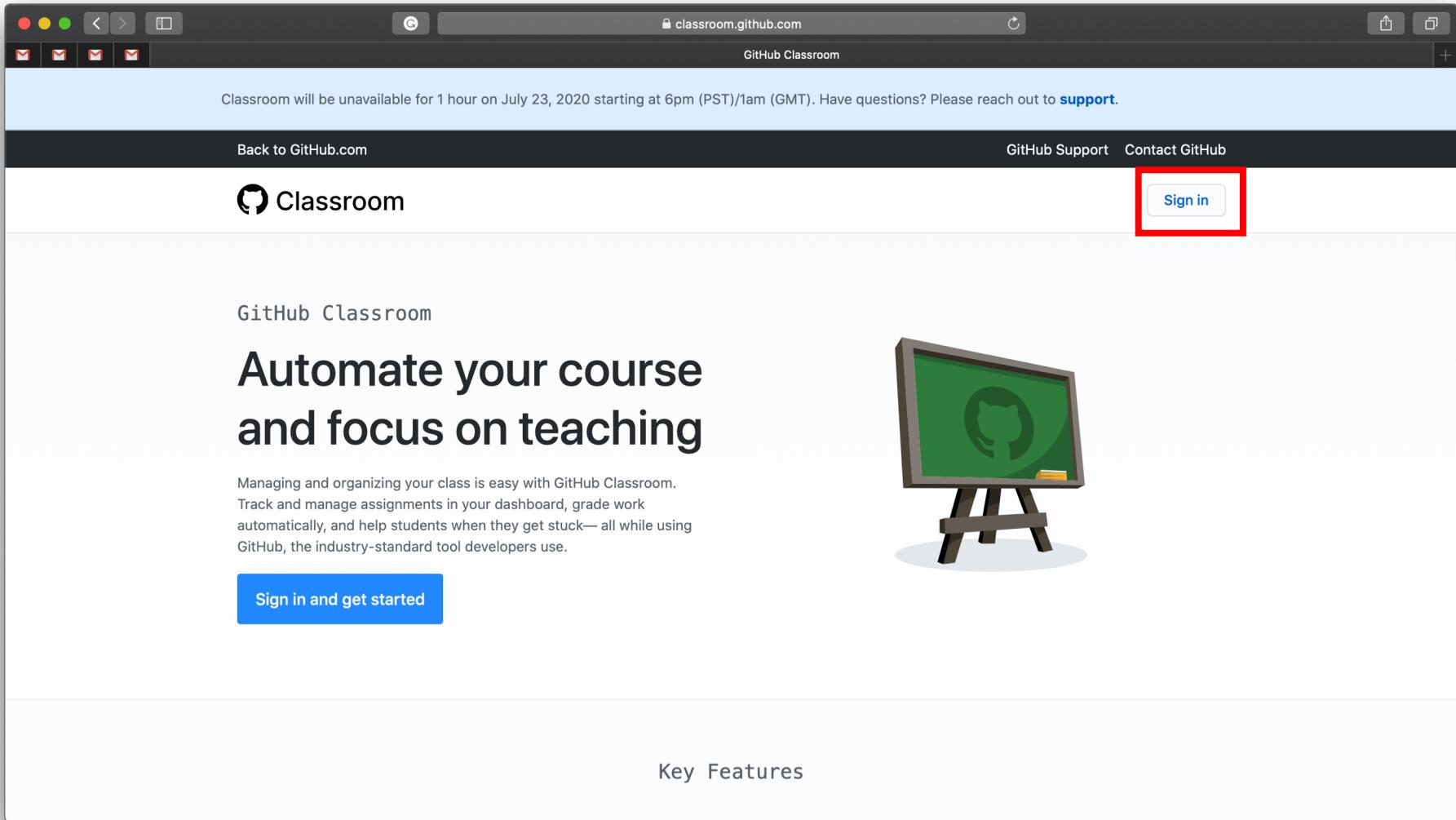
# GitHub Classroom Workflow

1. Create new classroom
2. Enroll students to the new classroom
3. Create assignments
4. Track each assignment
5. Archive the classroom

# Creating a Classroom

1. Sign-in at GitHub Classroom website:  
<https://classroom.github.com>.
2. Click at “New Classroom” button (green color) at the top right.
3. Select your education organization for your new classroom.
4. Set a name for your new classroom
5. Invite some other trainers/faculties as TA/admin (optional)
6. Connect to a LMS (optional)
7. Add students/create roster

# Sign-in at GitHub Classroom website



classroom.github.com GitHub Classroom

Classroom will be unavailable for 1 hour on July 23, 2020 starting at 6pm (PST)/1am (GMT). Have questions? Please reach out to [support](#).

[Back to GitHub.com](#) GitHub Support Contact GitHub

 [Sign in](#)

GitHub Classroom

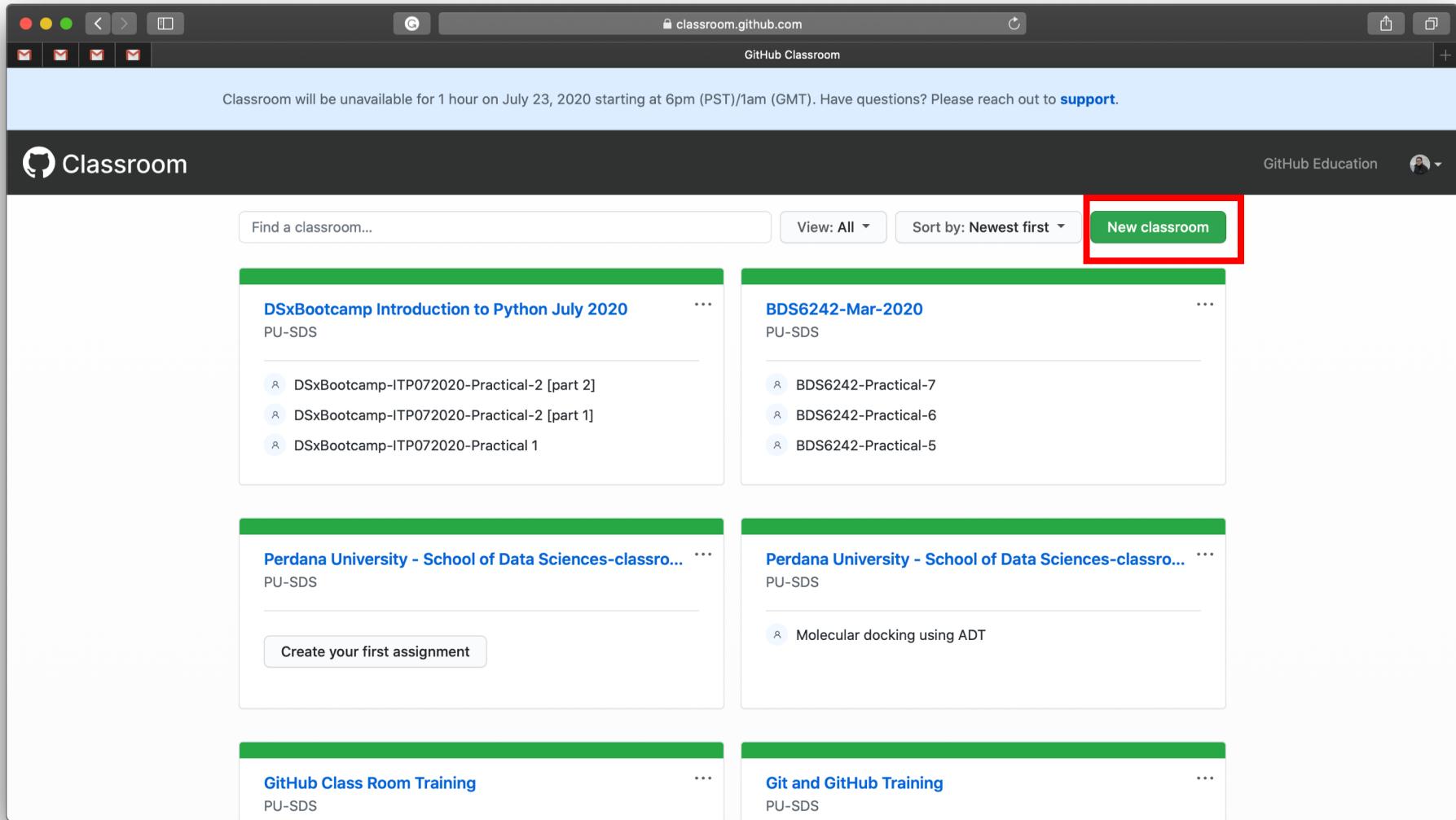
## Automate your course and focus on teaching

Managing and organizing your class is easy with GitHub Classroom. Track and manage assignments in your dashboard, grade work automatically, and help students when they get stuck—all while using GitHub, the industry-standard tool developers use.

[Sign in and get started](#)

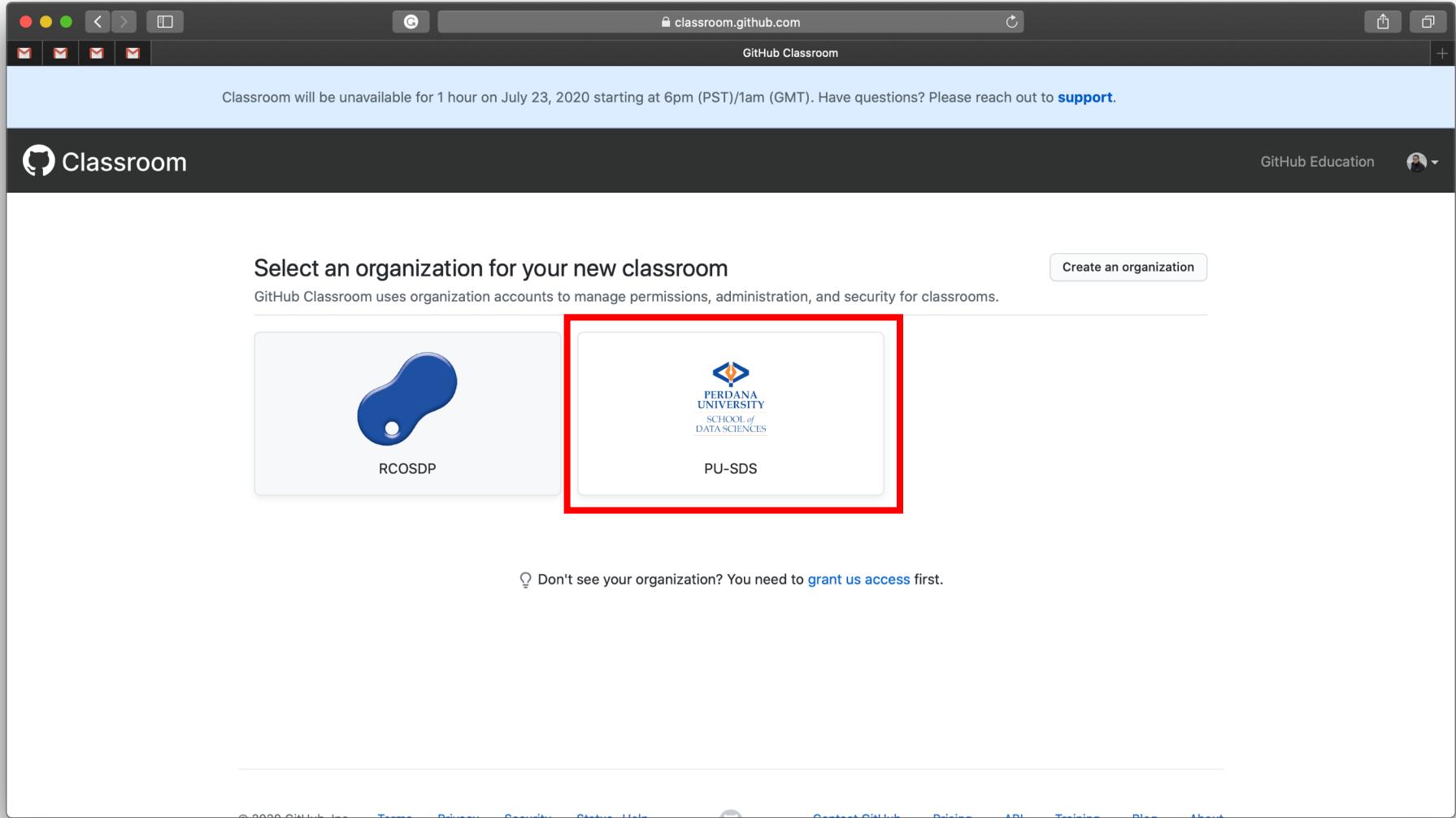
### Key Features

# Click at "New Classroom" button (green color) at top right



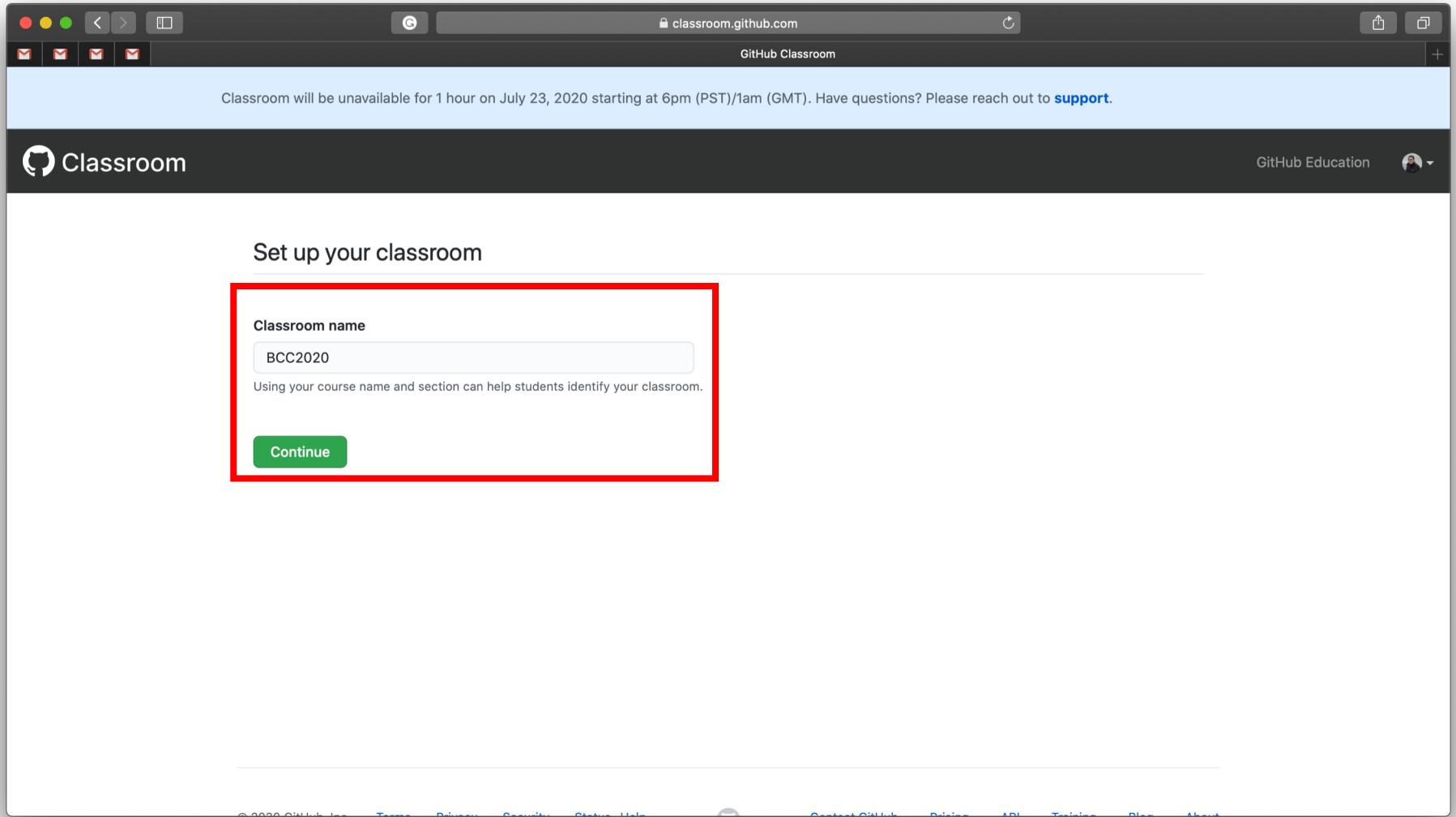
A screenshot of a web browser displaying the GitHub Classroom interface. The URL in the address bar is `classroom.github.com`. The page title is "GitHub Classroom". A message at the top states: "Classroom will be unavailable for 1 hour on July 23, 2020 starting at 6pm (PST)/1am (GMT). Have questions? Please reach out to [support](#)". Below this, there is a search bar labeled "Find a classroom...", a "View: All" dropdown, and a "Sort by: Newest first" dropdown. On the far right, there is a "GitHub Education" link and a user profile icon. A prominent green button labeled "New classroom" is located in the top right corner of the main content area, which is highlighted with a red rectangular box. The main content area displays a grid of classroom cards. The first card is titled "DSxBootcamp Introduction to Python July 2020" and belongs to "PU-SDS". It contains three assignment items: "DSxBootcamp-ITP072020-Practical-2 [part 2]", "DSxBootcamp-ITP072020-Practical-2 [part 1]", and "DSxBootcamp-ITP072020-Practical 1". The second card is titled "BDS6242-Mar-2020" and belongs to "PU-SDS". It contains four assignment items: "BDS6242-Practical-7", "BDS6242-Practical-6", and "BDS6242-Practical-5". The third card is titled "Perdana University - School of Data Sciences-classro..." and belongs to "PU-SDS". It has a "Create your first assignment" button. The fourth card is also titled "Perdana University - School of Data Sciences-classro..." and belongs to "PU-SDS". It contains one assignment item: "Molecular docking using ADT". The fifth card is titled "GitHub Class Room Training" and belongs to "PU-SDS". The sixth card is titled "Git and GitHub Training" and belongs to "PU-SDS".

# Select your education organization for your new classroom.



A screenshot of a web browser displaying the GitHub Classroom interface. The URL in the address bar is `classroom.github.com`. The page title is "GitHub Classroom". A message at the top states: "Classroom will be unavailable for 1 hour on July 23, 2020 starting at 6pm (PST)/1am (GMT). Have questions? Please reach out to [support](#)". On the left, there is a "Classroom" icon and a "GitHub Education" link. On the right, there is a user profile icon. The main content area has a heading "Select an organization for your new classroom" and a sub-instruction "GitHub Classroom uses organization accounts to manage permissions, administration, and security for classrooms." Below this, there are two organization cards: "RCOSDP" (represented by a blue blob icon) and "PU-SDS" (represented by the Perdana University logo). The "PU-SDS" card is highlighted with a red border. At the bottom, there is a note: "Don't see your organization? You need to [grant us access](#) first." The footer contains standard GitHub links: "About GitHub", "Help", "API", "Training", "Press", and "About".

# Set a name for your new classroom



A screenshot of a web browser showing the GitHub Classroom setup page. The URL in the address bar is `classroom.github.com`. The page header says "GitHub Classroom". A message at the top states: "Classroom will be unavailable for 1 hour on July 23, 2020 starting at 6pm (PST)/1am (GMT). Have questions? Please reach out to [support](#)". The main section is titled "Set up your classroom". It contains a form field labeled "Classroom name" with the value "BCC2020". Below the field is a note: "Using your course name and section can help students identify your classroom." A green "Continue" button is at the bottom of the form. The entire form area is highlighted with a red border.

Classroom will be unavailable for 1 hour on July 23, 2020 starting at 6pm (PST)/1am (GMT). Have questions? Please reach out to [support](#).

GitHub Classroom

GitHub Education

Classroom

Set up your classroom

Classroom name

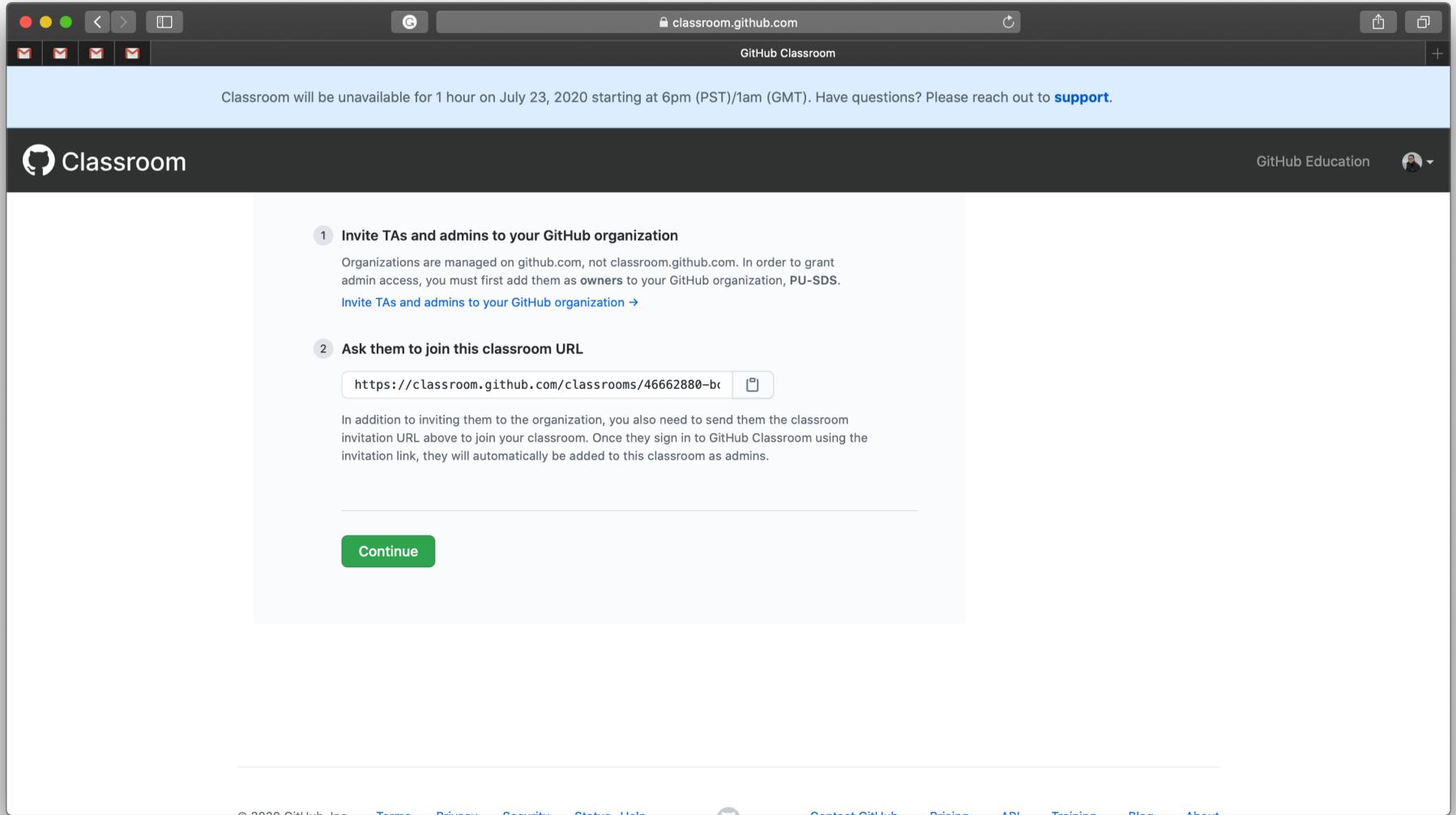
BCC2020

Using your course name and section can help students identify your classroom.

Continue

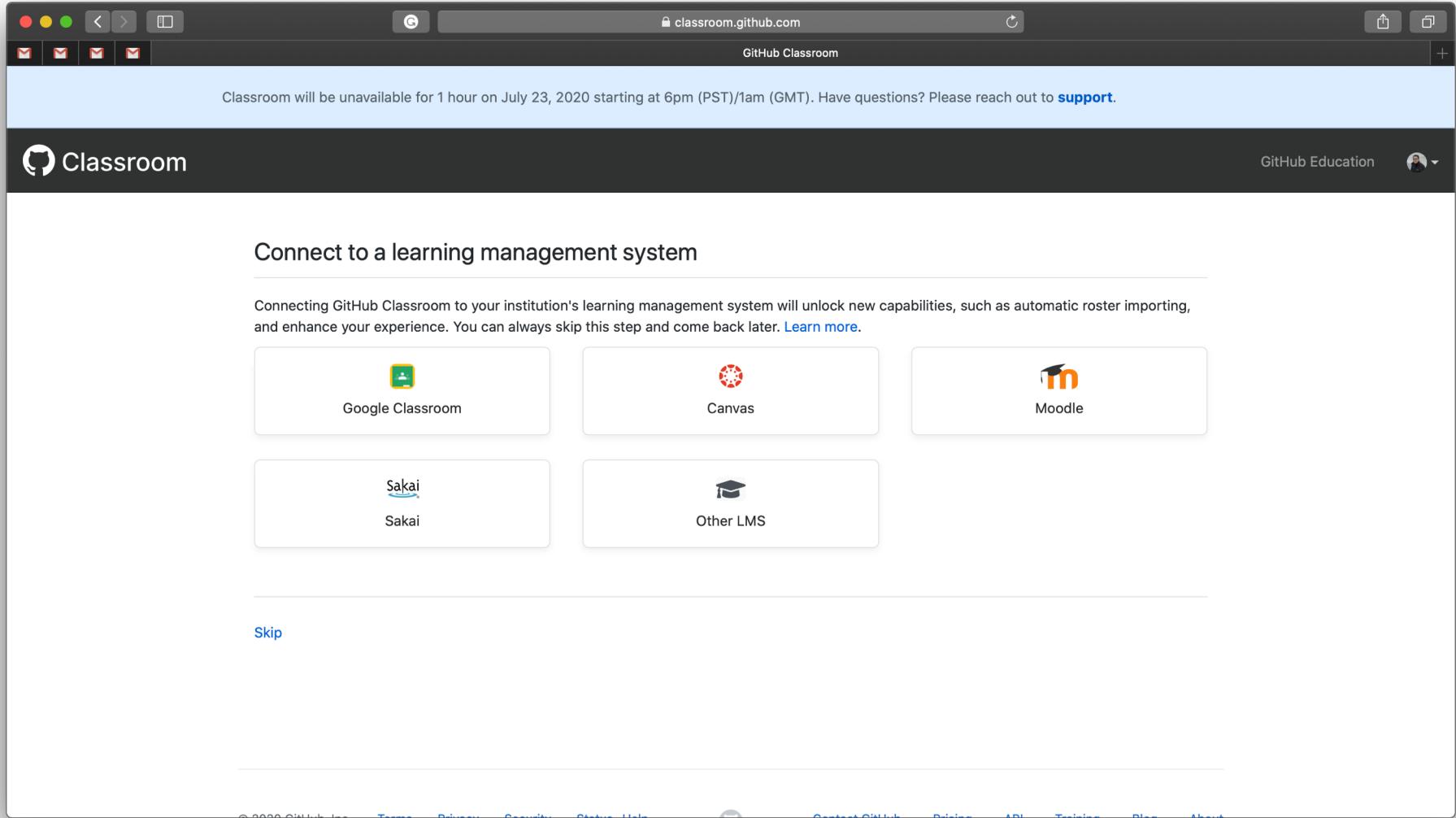
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# Invite some other trainers/faculties as TA/admin (optional)



A screenshot of a web browser showing the GitHub Classroom interface. The URL in the address bar is `classroom.github.com`. The page title is "GitHub Classroom". A message at the top states: "Classroom will be unavailable for 1 hour on July 23, 2020 starting at 6pm (PST)/1am (GMT). Have questions? Please reach out to [support](#)". On the left, there's a sidebar with the GitHub logo and the word "Classroom". On the right, there are links for "GitHub Education" and a user profile icon. The main content area has two steps: 1. "Invite TAs and admins to your GitHub organization". It explains that organizations are managed on `github.com`, not `classroom.github.com`, and that to grant admin access, you must first add them as owners to your GitHub organization, PU-SDS. There's a link to "Invite TAs and admins to your GitHub organization →". 2. "Ask them to join this classroom URL". It shows a URL input field containing `https://classroom.github.com/classrooms/46662880-bc` with a copy icon next to it. Below the URL, it says: "In addition to inviting them to the organization, you also need to send them the classroom invitation URL above to join your classroom. Once they sign in to GitHub Classroom using the invitation link, they will automatically be added to this classroom as admins." At the bottom, there's a green "Continue" button.

# Connect to a LMS (optional)



GitHub Classroom will be unavailable for 1 hour on July 23, 2020 starting at 6pm (PST)/1am (GMT). Have questions? Please reach out to [support](#).

**Classroom** GitHub Education GitHub Classroom

## Connect to a learning management system

Connecting GitHub Classroom to your institution's learning management system will unlock new capabilities, such as automatic roster importing, and enhance your experience. You can always skip this step and come back later. [Learn more](#).

 Google Classroom

 Canvas

 Moodle

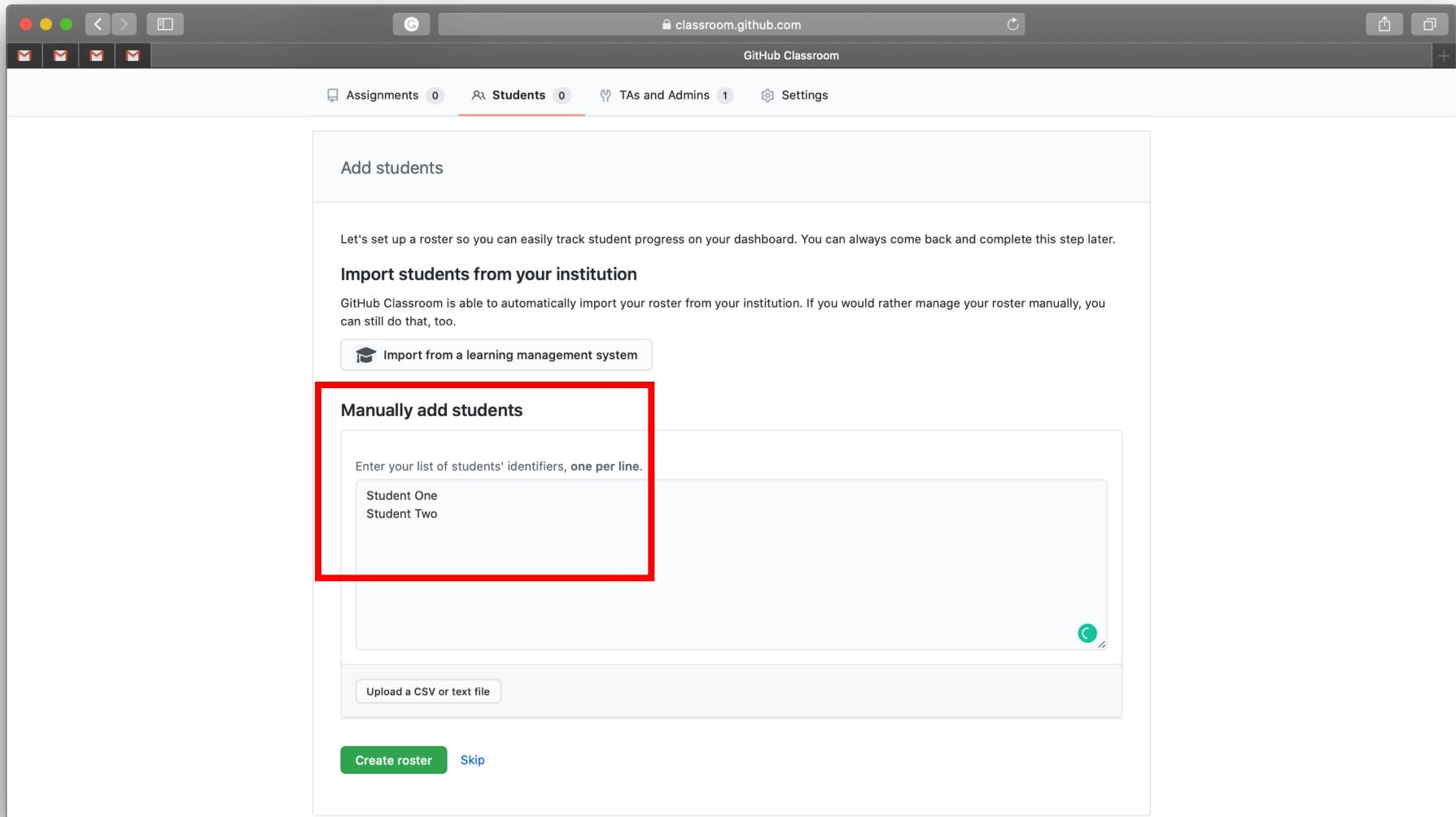
 Sakai

 Other LMS

[Skip](#)

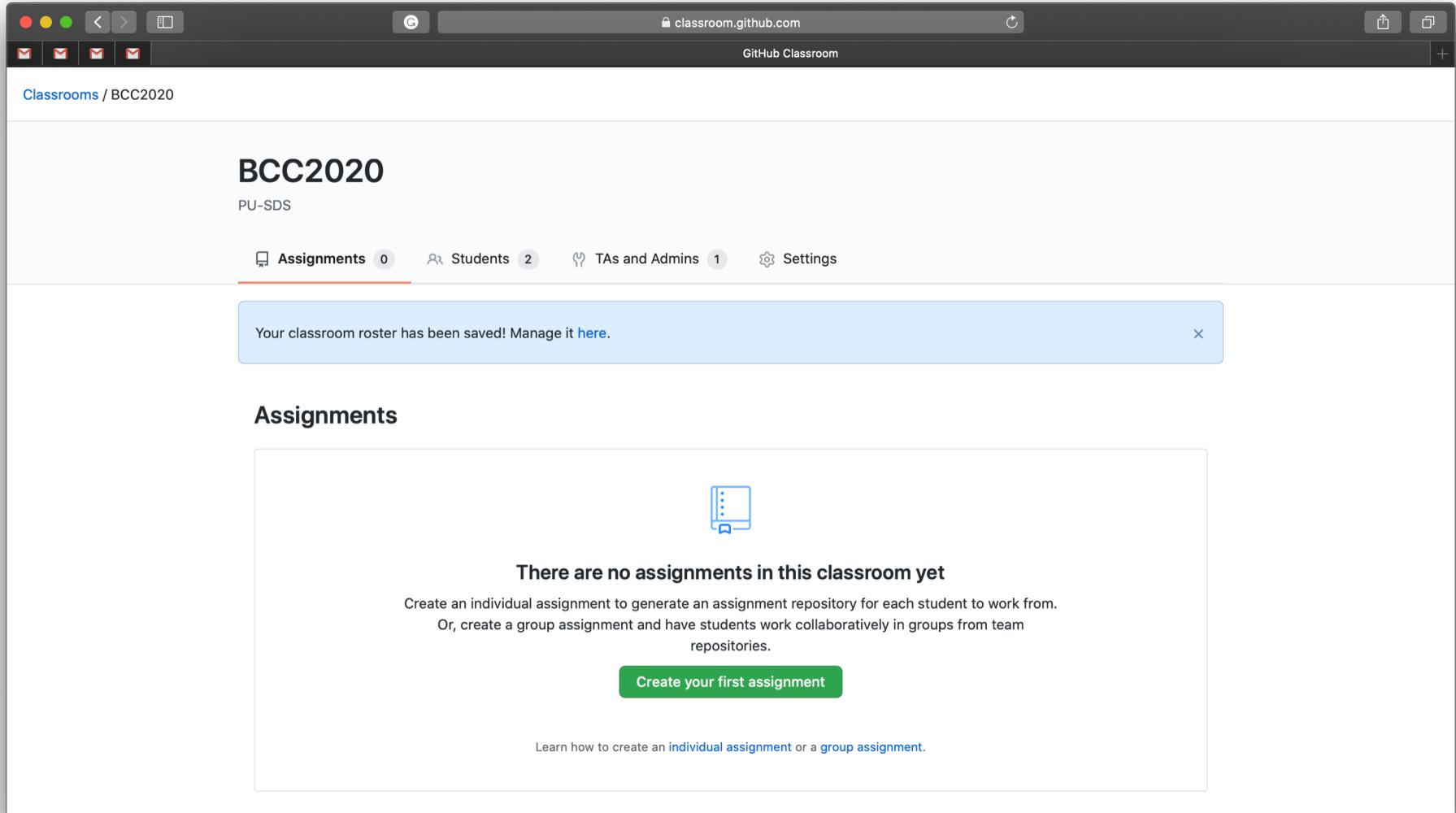
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# Add students/create roster



The screenshot shows the GitHub Classroom interface for creating a roster. The top navigation bar includes 'Assignments' (0), 'Students' (0, which is the active tab), 'TAs and Admins' (1), and 'Settings'. The main content area is titled 'Add students' and contains instructions: 'Let's set up a roster so you can easily track student progress on your dashboard. You can always come back and complete this step later.' Below this, there are two options: 'Import students from your institution' (with a button to 'Import from a learning management system') and 'Manually add students'. A red box highlights the 'Manually add students' section, which contains a text input field with placeholder text 'Enter your list of students' identifiers, one per line.' and two entries: 'Student One' and 'Student Two'. There is also a 'Upload a CSV or text file' button and a 'Create roster' button at the bottom.

# Classroom is Ready!



The screenshot shows a web browser window for GitHub Classroom. The URL is `classroom.github.com`. The page title is "GitHub Classroom". The main header reads "BCC2020" and "PU-SDS". Below the header is a navigation bar with four items: "Assignments 0", "Students 2", "TAs and Admins 1", and "Settings". A blue notification box states "Your classroom roster has been saved! Manage it [here](#)".

## Assignments



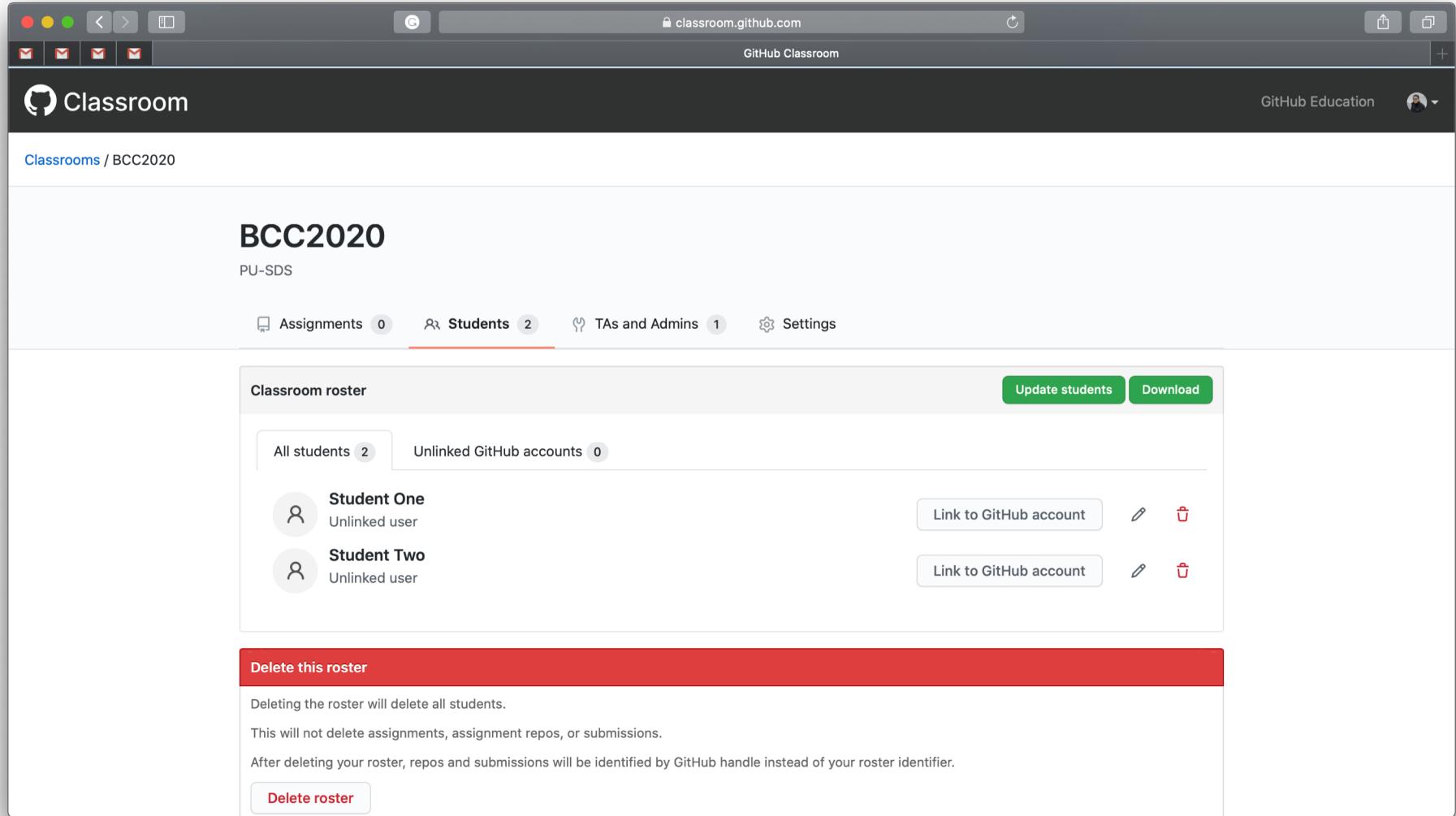
**There are no assignments in this classroom yet**

Create an individual assignment to generate an assignment repository for each student to work from.  
Or, create a group assignment and have students work collaboratively in groups from team repositories.

[Create your first assignment](#)

Learn how to create an [individual assignment](#) or a [group assignment](#).

# Classroom Roster



The screenshot shows the GitHub Classroom interface for the class BCC2020. The top navigation bar includes links for Classroom, Classrooms (BCC2020), GitHub Education, and user profile. The main header displays the class name "BCC2020" and code "PU-SDS". Below the header, there are tabs for Assignments (0), Students (2), TAs and Admins (1), and Settings. The Students tab is active, showing a list of two students: "Student One" and "Student Two", both listed as "Unlinked user". Each student entry has a "Link to GitHub account" button with edit and delete icons. A red banner at the bottom prompts the user to "Delete this roster", stating that deleting it will delete all students and that repos and submissions will be identified by GitHub handle instead of roster identifier. A "Delete roster" button is at the bottom of the banner.

Classrooms / BCC2020

## BCC2020

PU-SDS

Assignments 0 Students 2 TAs and Admins 1 Settings

Classroom roster

All students 2 Unlinked GitHub accounts 0

**Student One**  
Unlinked user

**Student Two**  
Unlinked user

Link to GitHub account

Link to GitHub account

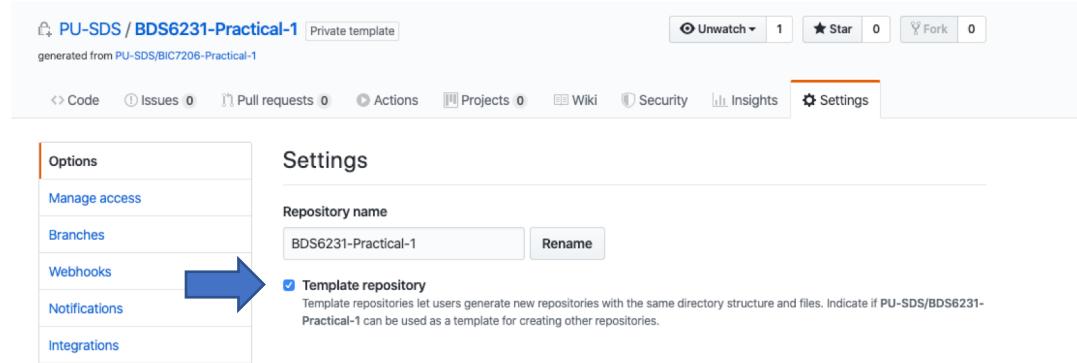
Delete this roster

Deleting the roster will delete all students.  
This will not delete assignments, assignment repos, or submissions.  
After deleting your roster, repos and submissions will be identified by GitHub handle instead of your roster identifier.

Delete roster

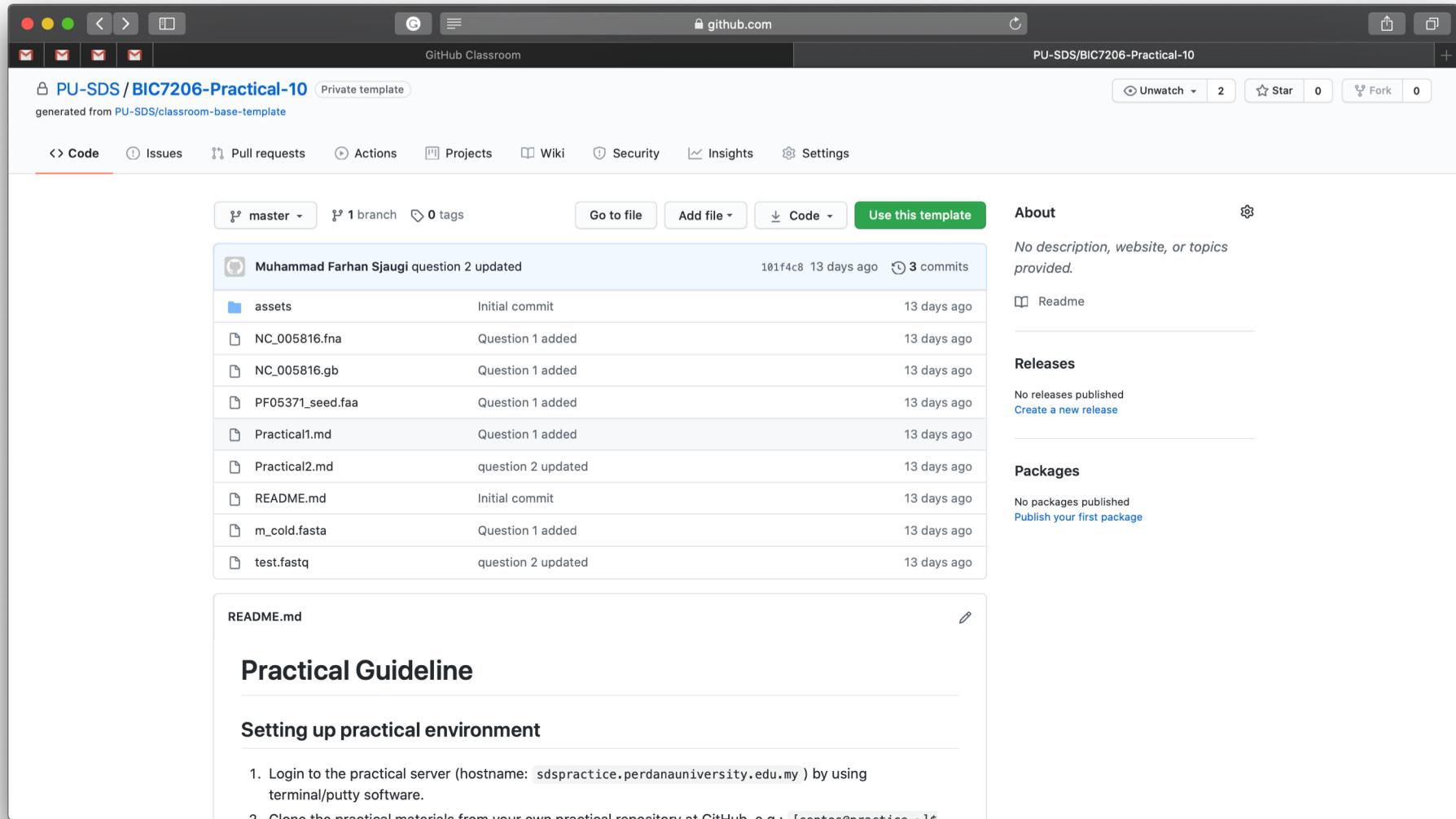
# Creating Template Repository

- Template Repository is a repository that is used to create repositories for student's assignment.
- Generally, a Template Repository is a typical Git repository at GitHub with Template repository option enabled at the repository settings.



- It's recommended for trainers/faculties to create a Template Repository prior to creating an assignment for the Students.

# Creating Template Repository (cont.)



The screenshot shows a GitHub Classroom template repository named "PU-SDS / BIC7206-Practical-10". The repository is private and was generated from "PU-SDS/classroom-base-template". It has 1 branch and 0 tags. The "Code" tab is selected, showing a list of commits:

Commit	Message	Date
assets	Initial commit	13 days ago
NC_005816.fna	Question 1 added	13 days ago
NC_005816.gb	Question 1 added	13 days ago
PF05371_seed.faa	Question 1 added	13 days ago
Practical1.md	Question 1 added	13 days ago
Practical2.md	question 2 updated	13 days ago
README.md	Initial commit	13 days ago
m_cold.fasta	Question 1 added	13 days ago
test.fastq	question 2 updated	13 days ago

The "About" section indicates no description, website, or topics provided. The "Releases" section shows no releases published, with a link to "Create a new release". The "Packages" section shows no packages published, with a link to "Publish your first package".

**Practical Guideline**

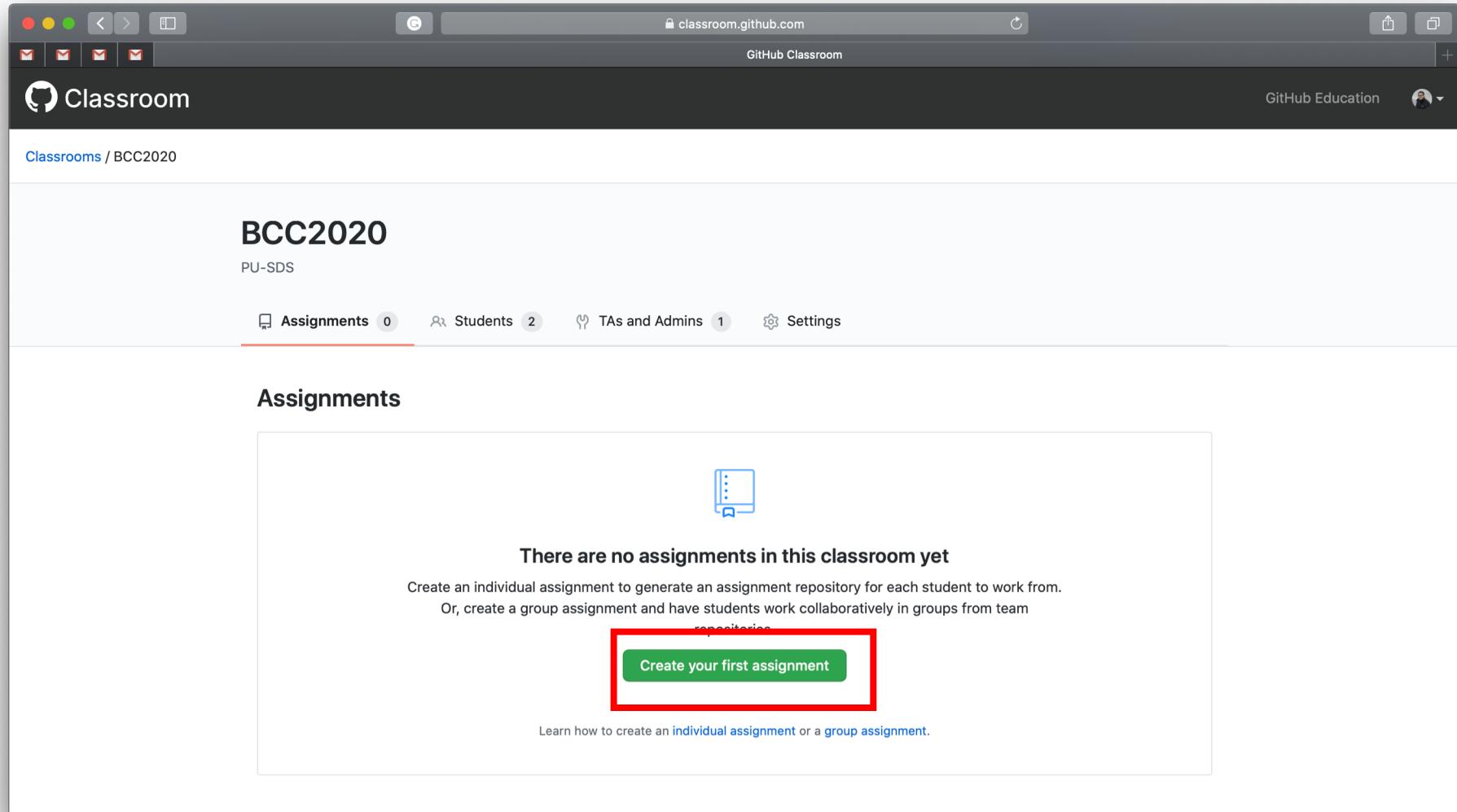
### Setting up practical environment

1. Login to the practical server (hostname: `sdspractice.perdanauniversity.edu.my`) by using terminal/putty software.
2. Clone the practical materials from your own practical repository at GitHub, e.g.: `[student@practice ~]$`

# Creating Assignment

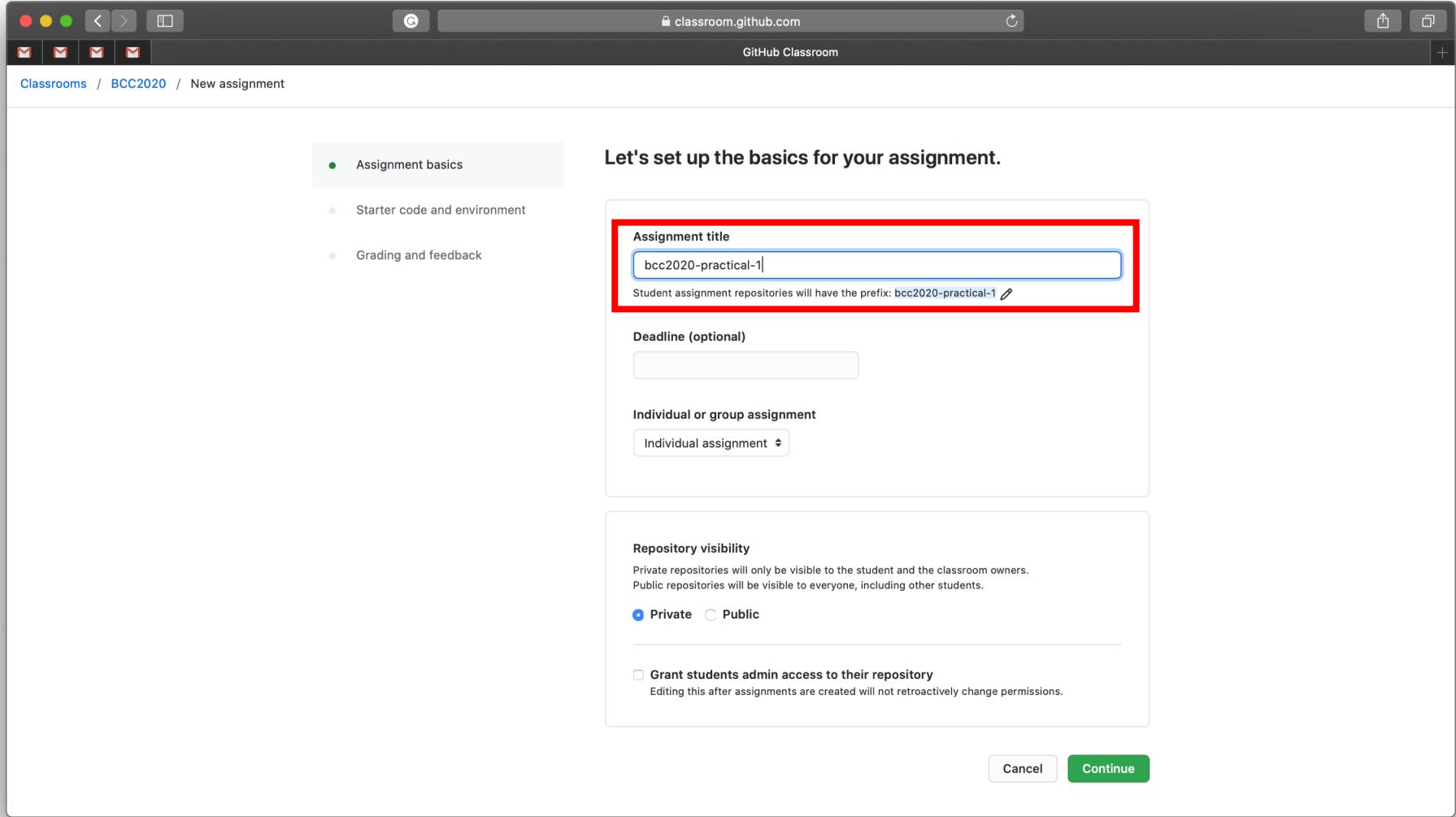
1. At a classroom page, click at “Create your first assignment” or “New assignment” button.
2. Set Assignment title (you could also add a deadline (optional))
3. Select either “Individual Assignment” or “Group Assignment” from the menu.
4. Select Repository visibility, either “Public” or “Private”, and Grant admin repository access (recommended)
5. Add starter code (i.e. import existing template repository)
6. Allow student to use an online IDE (optional)
7. Copy the assignment invitation URL and share it with your students

# At a classroom page, click at “Create your first assignment” or “New assignment” button.



The screenshot shows a web browser window for GitHub Classroom. The URL in the address bar is `classroom.github.com`. The page title is "GitHub Classroom". On the left, there's a sidebar with icons for Classroom, Classrooms, and GitHub Education. The main content area is titled "BCC2020" and "PU-SDS". Below this, there are tabs for "Assignments" (0), "Students" (2), "TAs and Admins" (1), and "Settings". The "Assignments" tab is active, showing a large icon of a notebook and the text "There are no assignments in this classroom yet". It also contains instructions: "Create an individual assignment to generate an assignment repository for each student to work from." and "Or, create a group assignment and have students work collaboratively in groups from team repositories". A prominent green button labeled "Create your first assignment" is centered in this section, and it is highlighted with a red rectangular box. At the bottom, there's a note: "Learn how to create an [individual assignment](#) or a [group assignment](#)".

# Set Assignment title



The screenshot shows a web browser window for GitHub Classroom. The URL is `classroom.github.com`. The page is titled "GitHub Classroom". The navigation bar shows "Classrooms / BCC2020 / New assignment". On the left, there's a sidebar with three options: "Assignment basics" (selected), "Starter code and environment", and "Grading and feedback". The main content area has a heading "Let's set up the basics for your assignment." Below it, there are two sections: "Assignment title" (containing "bcc2020-practical-1") and "Deadline (optional)". A note says "Student assignment repositories will have the prefix: bcc2020-practical-1" with a pencil icon. The second section is "Individual or group assignment" (set to "Individual assignment"). In the bottom section, "Repository visibility" is set to "Private" (radio button selected). There's also an unchecked checkbox for "Grant students admin access to their repository" with the note "Editing this after assignments are created will not retroactively change permissions." At the bottom right are "Cancel" and "Continue" buttons.

Classrooms / BCC2020 / New assignment

Assignment basics

Starter code and environment

Grading and feedback

Let's set up the basics for your assignment.

Assignment title

bcc2020-practical-1

Student assignment repositories will have the prefix: bcc2020-practical-1

Deadline (optional)

Individual or group assignment

Individual assignment

Repository visibility

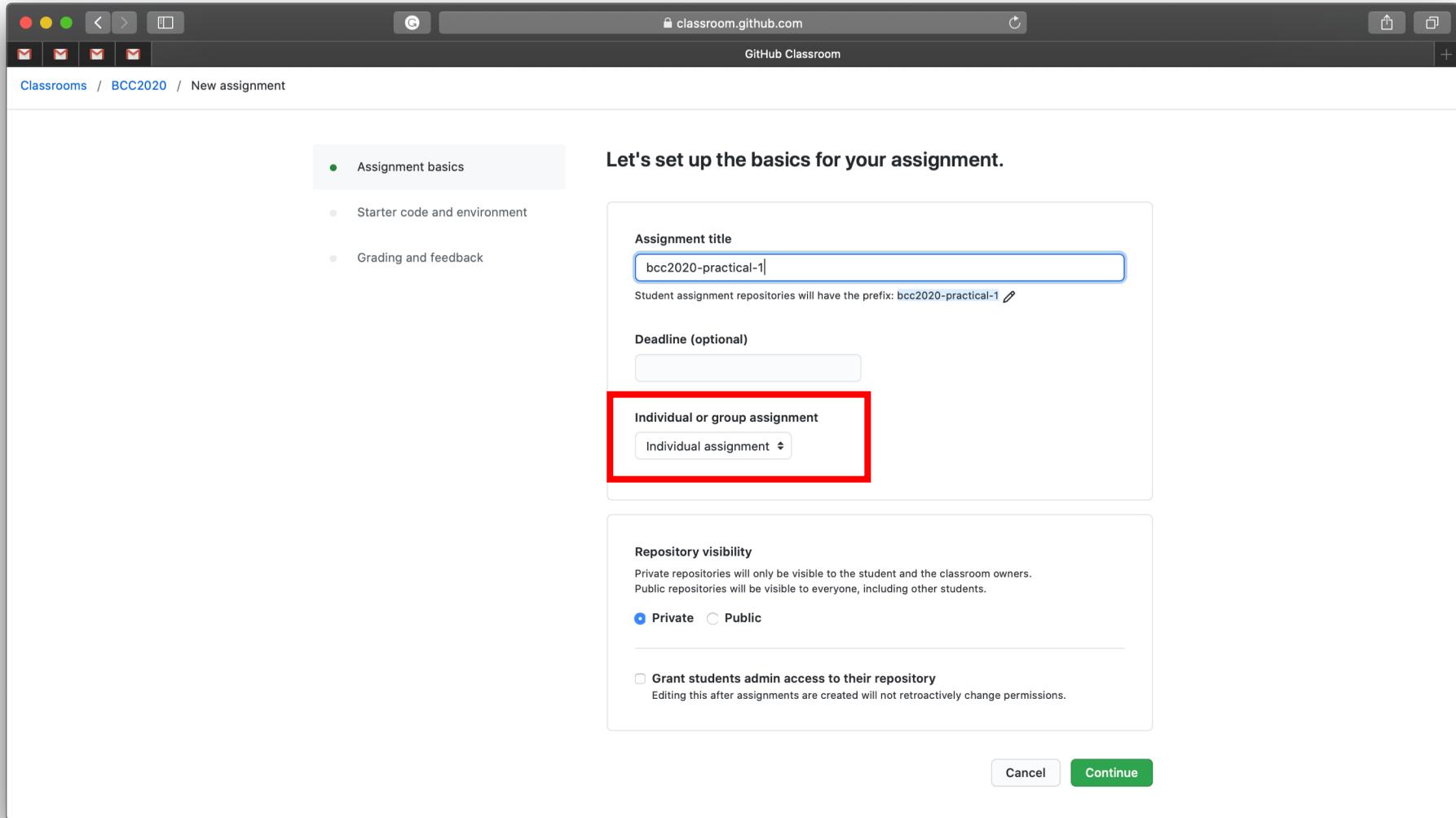
Private repositories will only be visible to the student and the classroom owners.  
Public repositories will be visible to everyone, including other students.

Private  Public

Grant students admin access to their repository  
Editing this after assignments are created will not retroactively change permissions.

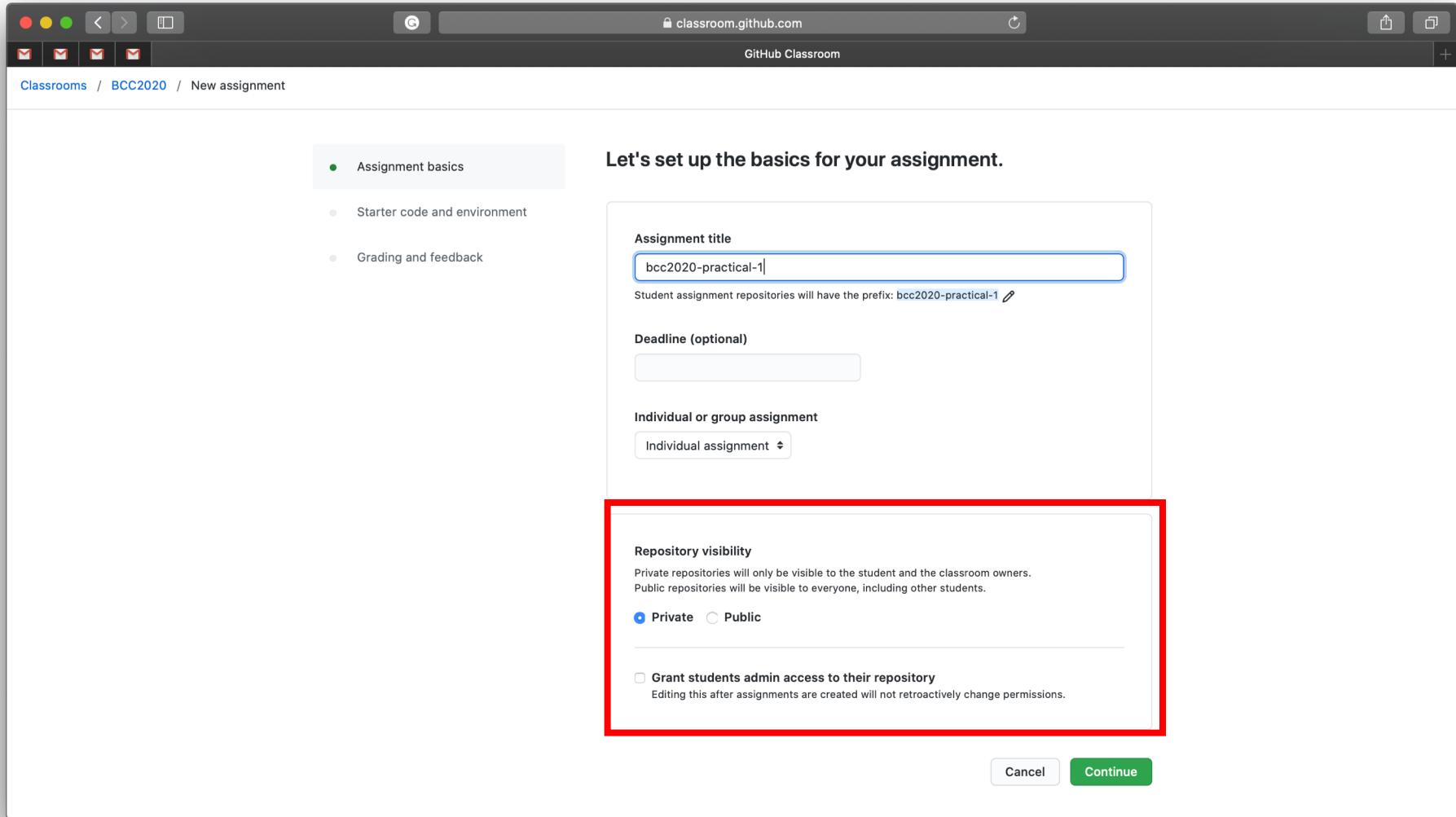
Cancel Continue

# Select either "Individual Assignment" or "Group Assignment" from the menu



The screenshot shows the 'New assignment' setup page on GitHub Classroom. The URL in the browser is `classroom.github.com`. The page title is 'GitHub Classroom'. The navigation bar shows 'Classrooms / BCC2020 / New assignment'. On the left, a sidebar lists steps: 'Assignment basics' (selected), 'Starter code and environment', and 'Grading and feedback'. The main content area has a heading 'Let's set up the basics for your assignment.' It includes fields for 'Assignment title' (containing 'bcc2020-practical-1'), 'Deadline (optional)', and 'Individual or group assignment' (set to 'Individual assignment'). A red box highlights the 'Individual or group assignment' dropdown. Below it is a section for 'Repository visibility' with options for 'Private' (selected) and 'Public', and a checkbox for 'Grant students admin access to their repository'. At the bottom are 'Cancel' and 'Continue' buttons.

# Select Repository visibility, either “Public” or “Private”



The screenshot shows a web browser window for GitHub Classroom. The URL is classroom.github.com. The page is titled "GitHub Classroom". The navigation bar shows "Classrooms / BCC2020 / New assignment". On the left, there's a sidebar with three options: "Assignment basics" (selected, indicated by a green dot), "Starter code and environment", and "Grading and feedback". The main content area has a heading "Let's set up the basics for your assignment." It includes fields for "Assignment title" (bcc2020-practical-1), "Deadline (optional)", and "Individual or group assignment" (set to "Individual assignment"). A red box highlights the "Repository visibility" section, which contains text about visibility levels and two radio buttons: "Private" (selected) and "Public". There's also a checkbox for "Grant students admin access to their repository". At the bottom are "Cancel" and "Continue" buttons.

Assignment basics

Starter code and environment

Grading and feedback

Let's set up the basics for your assignment.

Assignment title

bcc2020-practical-1

Student assignment repositories will have the prefix: bcc2020-practical-1 

Deadline (optional)

Individual or group assignment

Individual assignment

Repository visibility

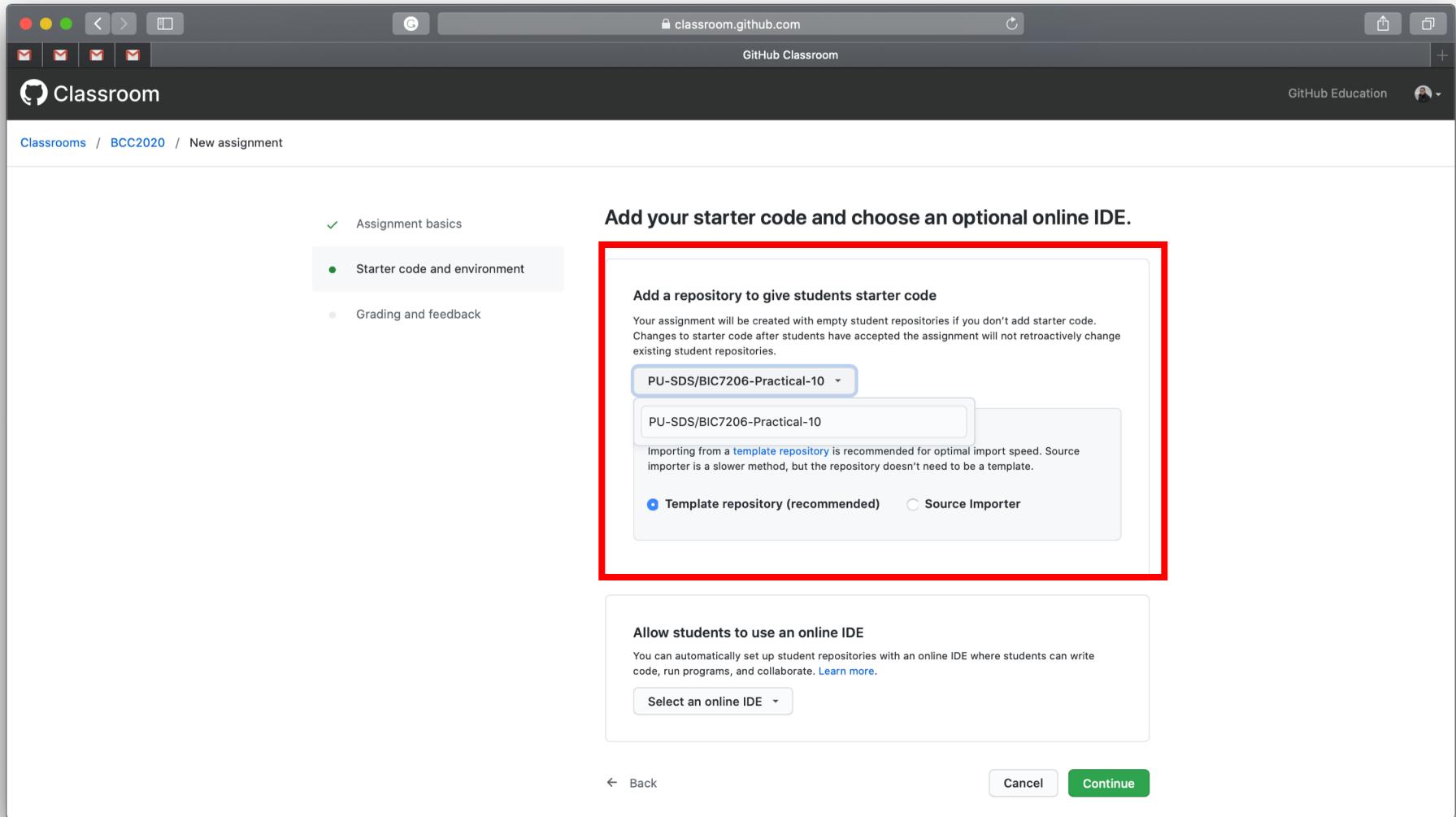
Private repositories will only be visible to the student and the classroom owners.  
Public repositories will be visible to everyone, including other students.

Private  Public

Grant students admin access to their repository  
Editing this after assignments are created will not retroactively change permissions.

Cancel Continue

# Add starter code (i.e. import existing template repository)



The screenshot shows the GitHub Classroom interface for creating a new assignment. The top navigation bar includes the GitHub logo, the URL 'classroom.github.com', the title 'GitHub Classroom', and user information. The main content area is titled 'New assignment' under 'BCC2020'. On the left, a sidebar lists three steps: 'Assignment basics' (marked with a green checkmark), 'Starter code and environment' (marked with a green dot), and 'Grading and feedback'. The 'Starter code and environment' step is currently active. A red box highlights the 'Add a repository to give students starter code' section. This section contains a dropdown menu set to 'PU-SDS/BIC7206-Practical-10', a note about importing from a template repository, and two radio button options: 'Template repository (recommended)' (selected) and 'Source Importer'. Below this is another section titled 'Allow students to use an online IDE', which includes a dropdown menu set to 'Select an online IDE'. At the bottom are 'Back', 'Cancel', and 'Continue' buttons.

Classrooms / BCC2020 / New assignment

Assignment basics

Starter code and environment

Grading and feedback

Add your starter code and choose an optional online IDE.

Add a repository to give students starter code

Your assignment will be created with empty student repositories if you don't add starter code. Changes to starter code after students have accepted the assignment will not retroactively change existing student repositories.

PU-SDS/BIC7206-Practical-10

Importing from a [template repository](#) is recommended for optimal import speed. Source importer is a slower method, but the repository doesn't need to be a template.

Template repository (recommended)  Source Importer

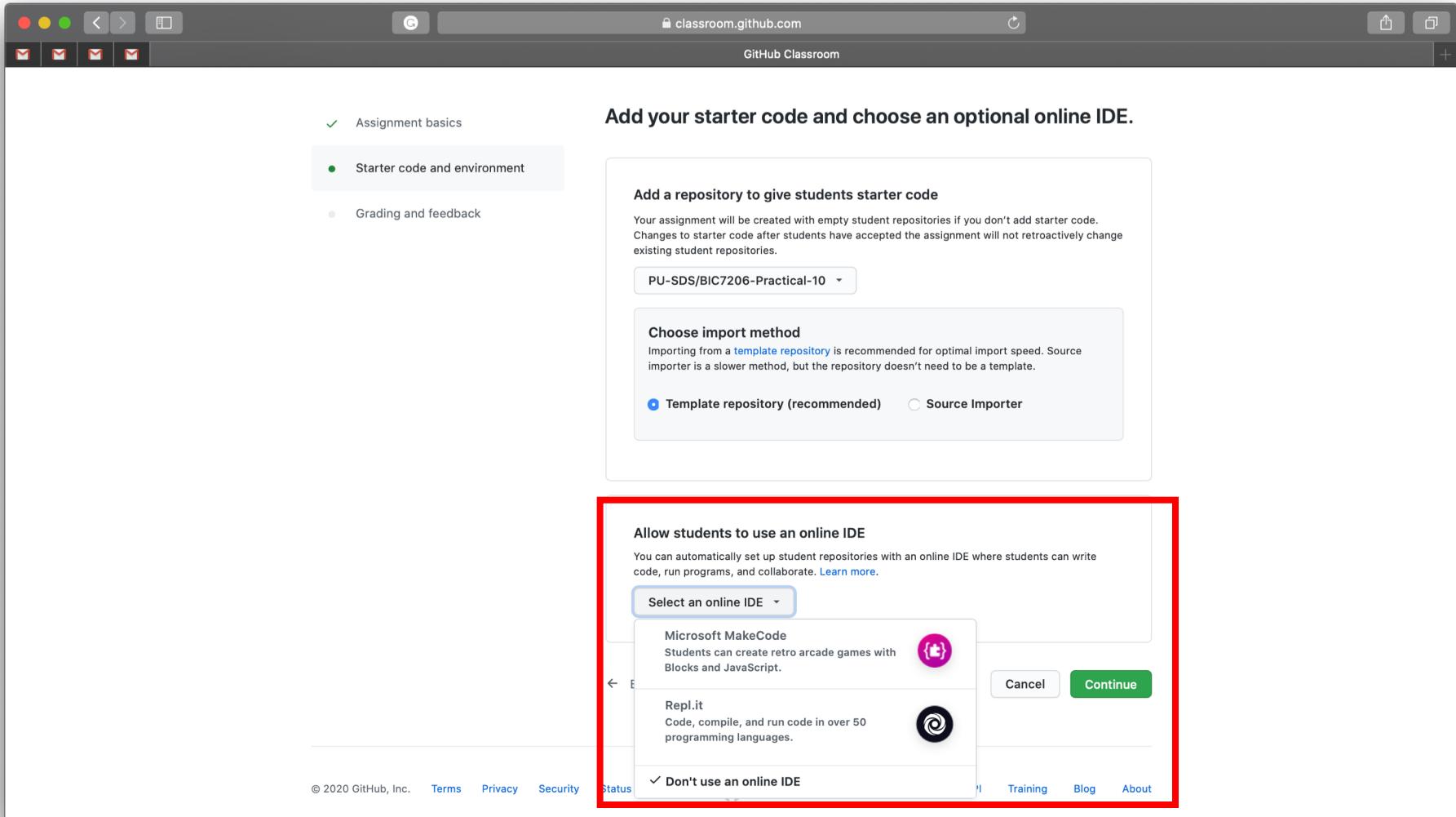
Allow students to use an online IDE

You can automatically set up student repositories with an online IDE where students can write code, run programs, and collaborate. [Learn more](#).

Select an online IDE

← Back Cancel Continue

# Allow student to use an online IDE (optional)



Assignment basics

Starter code and environment

Grading and feedback

Add your starter code and choose an optional online IDE.

Add a repository to give students starter code

Your assignment will be created with empty student repositories if you don't add starter code. Changes to starter code after students have accepted the assignment will not retroactively change existing student repositories.

PU-SDS/BIC7206-Practical-10

Choose import method

Importing from a [template repository](#) is recommended for optimal import speed. Source importer is a slower method, but the repository doesn't need to be a template.

Template repository (recommended)  Source Importer

Allow students to use an online IDE

You can automatically set up student repositories with an online IDE where students can write code, run programs, and collaborate. [Learn more](#).

Select an online IDE

Microsoft MakeCode  
Students can create retro arcade games with Blocks and JavaScript.

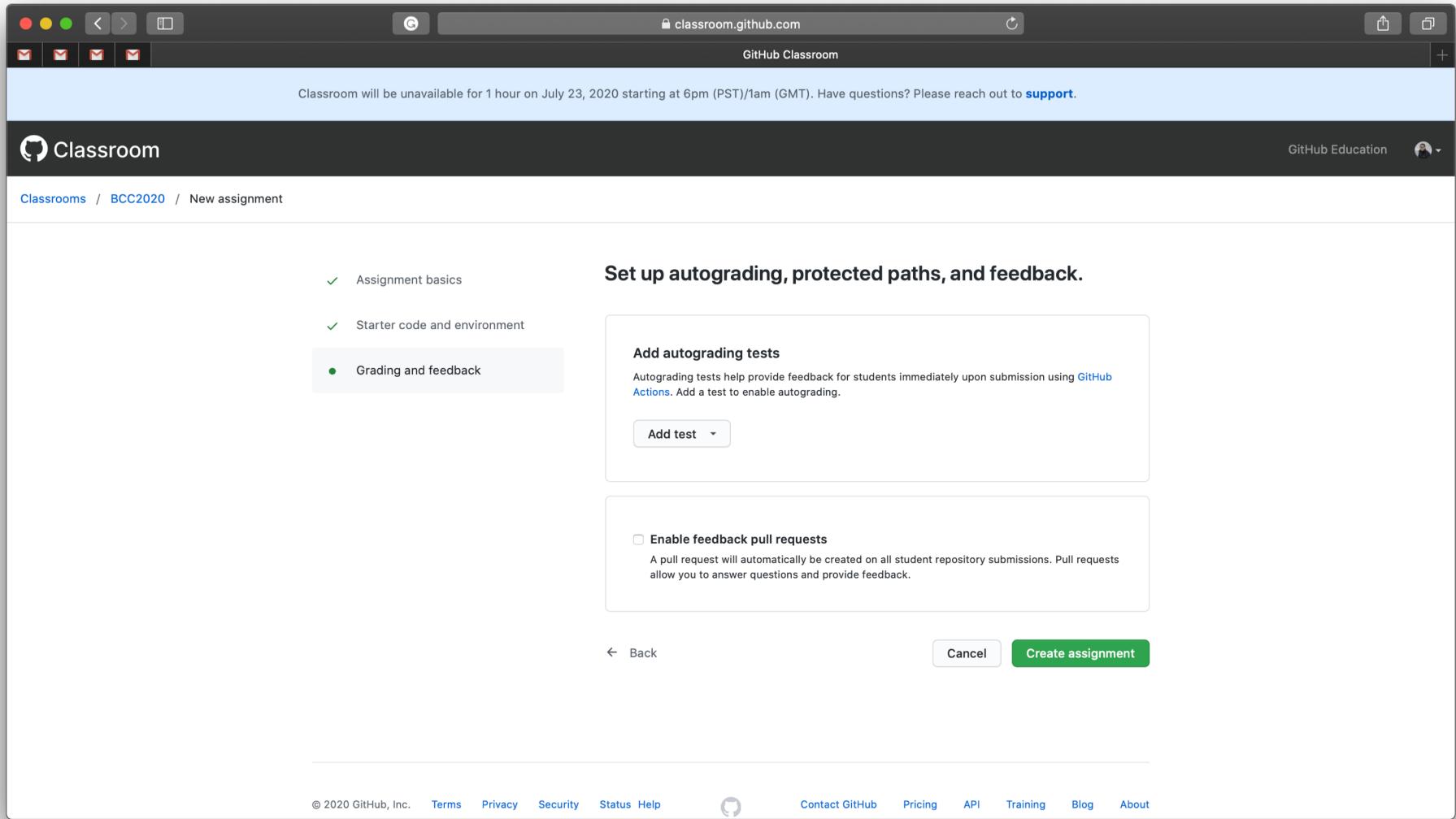
Repl.it  
Code, compile, and run code in over 50 programming languages.

Don't use an online IDE

Cancel Continue

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# Optional



A screenshot of a web browser displaying the GitHub Classroom interface. The URL in the address bar is `classroom.github.com`. The page title is "GitHub Classroom". A message at the top states: "Classroom will be unavailable for 1 hour on July 23, 2020 starting at 6pm (PST)/1am (GMT). Have questions? Please reach out to [support](#)".

The main content area is titled "Classroom" and shows the user is creating a new assignment for the "BCC2020" classroom. The navigation bar includes "Classrooms" and "GitHub Education".

On the left, there is a sidebar with three items:

- Assignment basics (checkmark)
- Starter code and environment (checkmark)
- Grading and feedback (bullet point)

The "Grading and feedback" item is currently selected.

The main content area has a heading "Set up autograding, protected paths, and feedback." followed by two sections:

- Add autograding tests**: A section with a button "Add test".

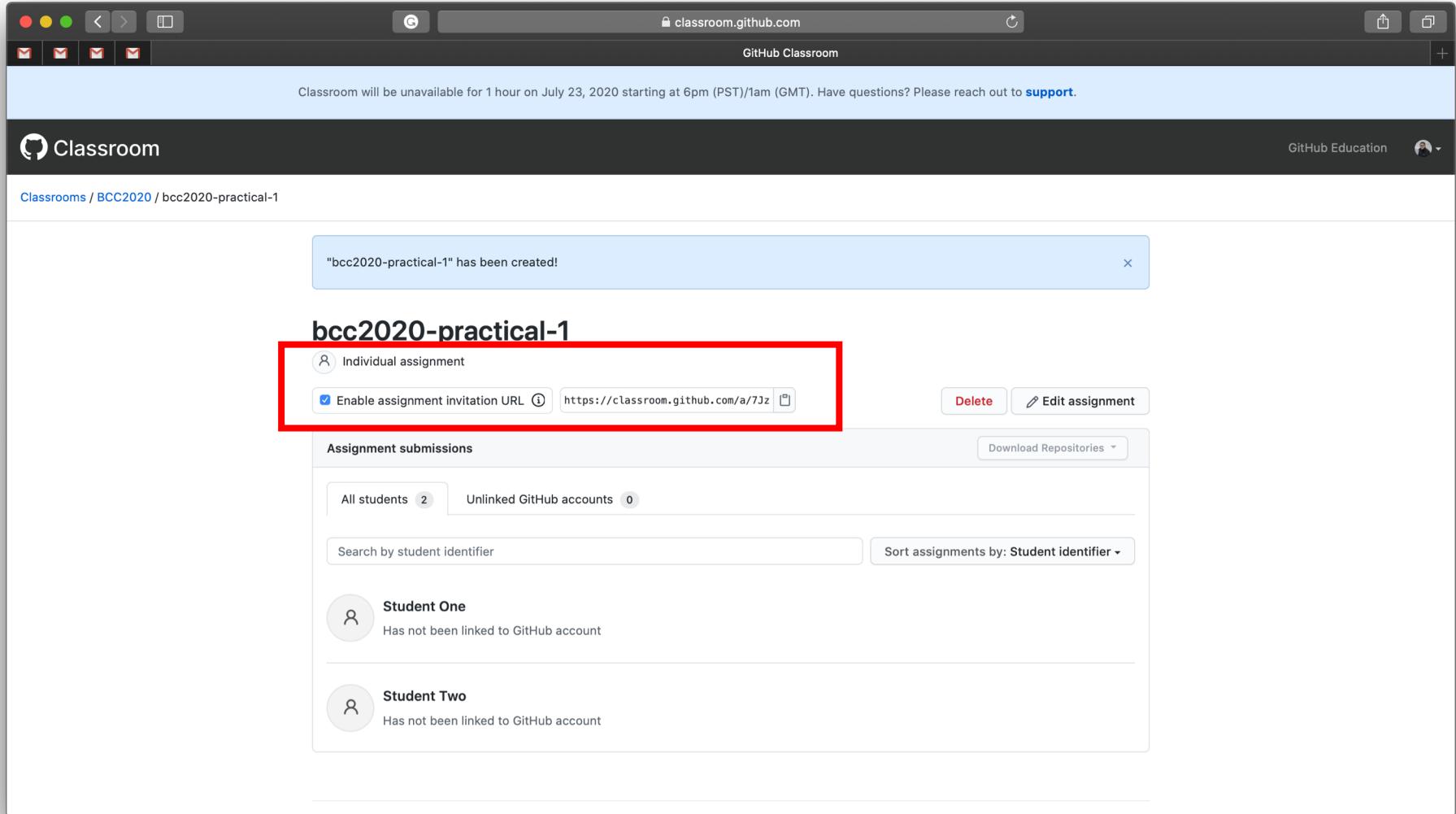
Autograding tests help provide feedback for students immediately upon submission using [GitHub Actions](#). Add a test to enable autograding.
- Enable feedback pull requests**: A section with an unchecked checkbox.

A pull request will automatically be created on all student repository submissions. Pull requests allow you to answer questions and provide feedback.

At the bottom of the page are buttons for "Back", "Cancel", and a green "Create assignment" button.

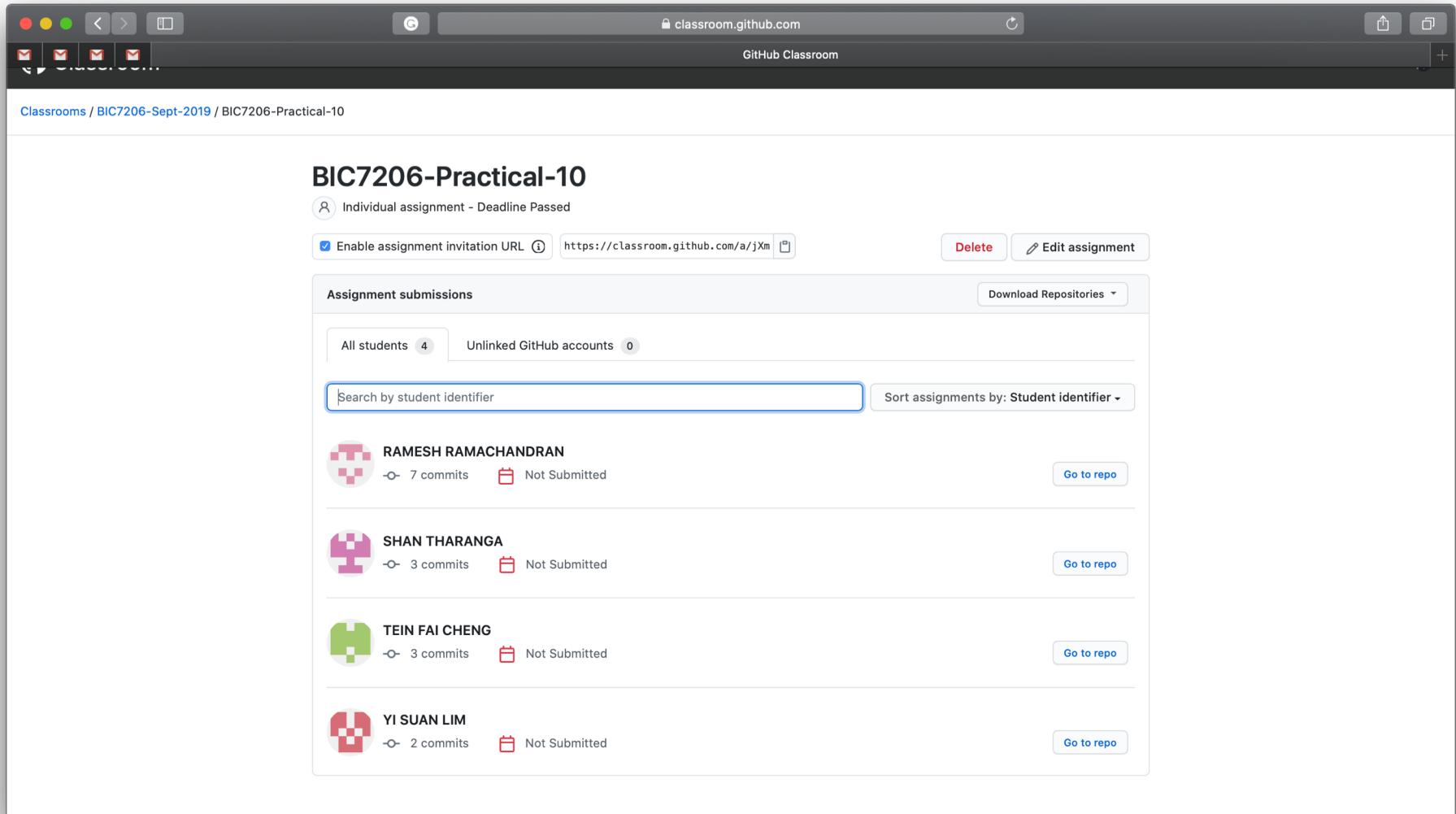
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# Copy the assignment invitation URL and share it with your students



A screenshot of a web browser displaying the GitHub Classroom interface. The URL in the address bar is `classroom.github.com`. The page title is "GitHub Classroom". A message at the top states: "Classroom will be unavailable for 1 hour on July 23, 2020 starting at 6pm (PST)/1am (GMT). Have questions? Please reach out to [support](#)". Below this, the "Classroom" logo is visible, along with "GitHub Education" and a user profile icon. The main content shows a classroom named "bcc2020-practical-1". An alert box says "'bcc2020-practical-1' has been created!". Under the assignment list, there is a red box highlighting the "Enable assignment invitation URL" checkbox and the generated URL `https://classroom.github.com/a/7Jz`. The assignment list includes two entries: "Student One" and "Student Two", both of whom have "Has not been linked to GitHub account".

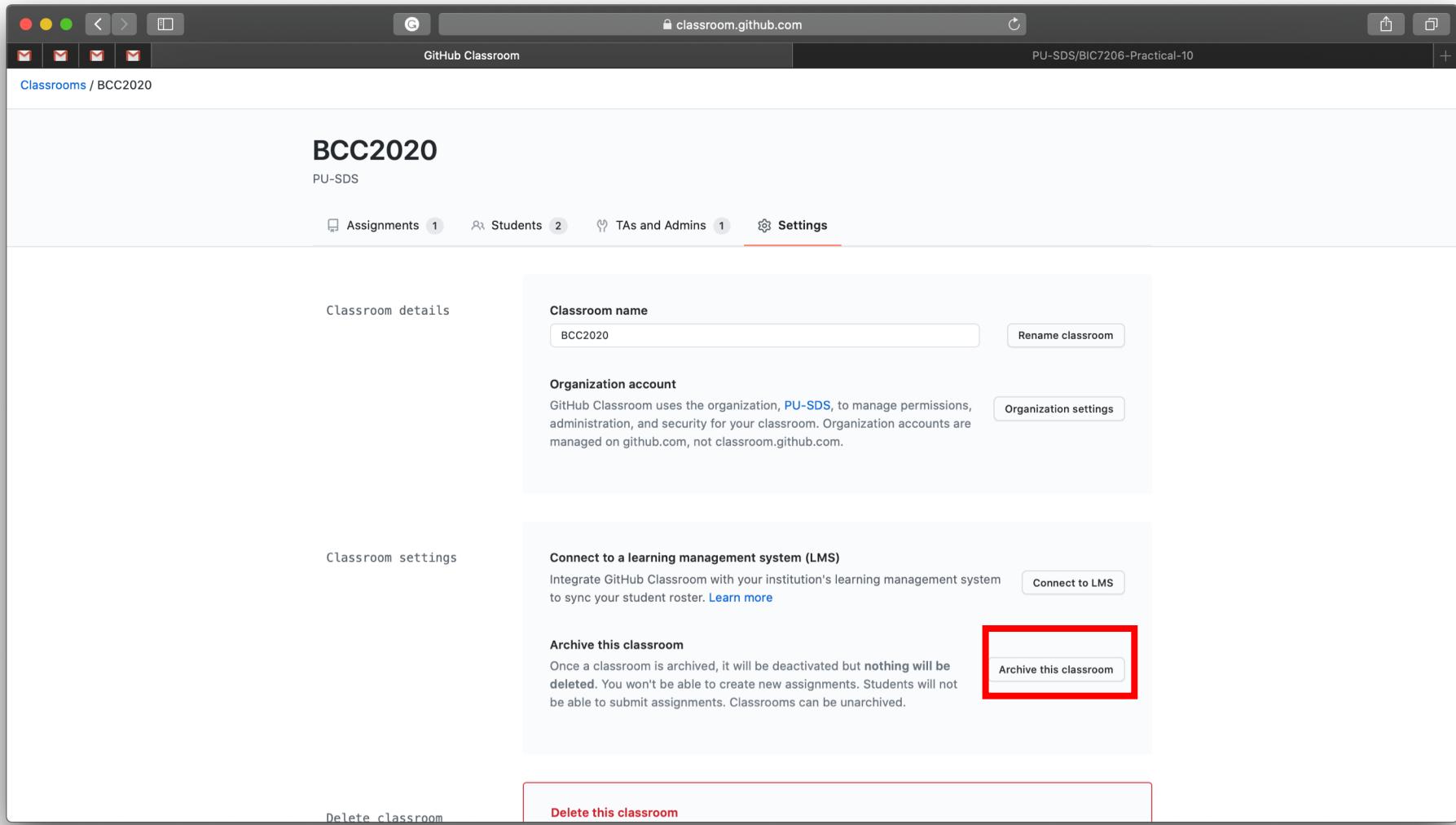
# Tracking Assignments



The screenshot shows the GitHub Classroom interface for the assignment "BIC7206-Practical-10". The assignment has been completed ("Deadline Passed") and an invitation URL is enabled (<https://classroom.github.com/a/jXm>). There are four student submissions listed:

Student Identifier	Commits	Status	Action
RAMESH RAMACHANDRAN	7 commits	Not Submitted	<a href="#">Go to repo</a>
SHAN THARANGA	3 commits	Not Submitted	<a href="#">Go to repo</a>
TEIN FAI CHENG	3 commits	Not Submitted	<a href="#">Go to repo</a>
YI SUAN LIM	2 commits	Not Submitted	<a href="#">Go to repo</a>

# Archiving Classroom



The screenshot shows the GitHub Classroom settings page for a classroom named "BCC2020". The "Settings" tab is selected. On the left, there's a "Classroom details" section with the classroom name "BCC2020" and a "Rename classroom" button. Below it is an "Organization account" section explaining that GitHub Classroom uses the organization "PU-SDS" for permissions, administration, and security. There's also a "Connect to LMS" section with a "Connect to LMS" button. On the right, under "Classroom settings", there's an "Archive this classroom" section with a note that archiving will deactivate the classroom but nothing will be deleted. A red box highlights the "Archive this classroom" button. At the bottom, there are "Delete classroom" buttons for both the main section and the archive section.

GitHub Classroom

Classrooms / BCC2020

## BCC2020

PU-SDS

Assignments 1 Students 2 TAs and Admins 1 Settings

Classroom details

Classroom name

BCC2020

Rename classroom

Organization account

GitHub Classroom uses the organization, PU-SDS, to manage permissions, administration, and security for your classroom. Organization accounts are managed on [github.com](#), not [classroom.github.com](#).

Organization settings

Classroom settings

Connect to a learning management system (LMS)

Integrate GitHub Classroom with your institution's learning management system to sync your student roster. [Learn more](#)

Connect to LMS

Archive this classroom

Once a classroom is archived, it will be deactivated but **nothing will be deleted**. You won't be able to create new assignments. Students will not be able to submit assignments. Classrooms can be unarchived.

Archive this classroom

Delete classroom

Delete this classroom

# Thank You

## Question?

Training Materials:

<https://github.com/PU-SDS/bcc-2020-github-classroom-training>