Web Server Design

Lecture 2 – Git/GitHub Walkthrough

Old Dominion University
Department of Computer Science
CS 431/531 Spring 2026
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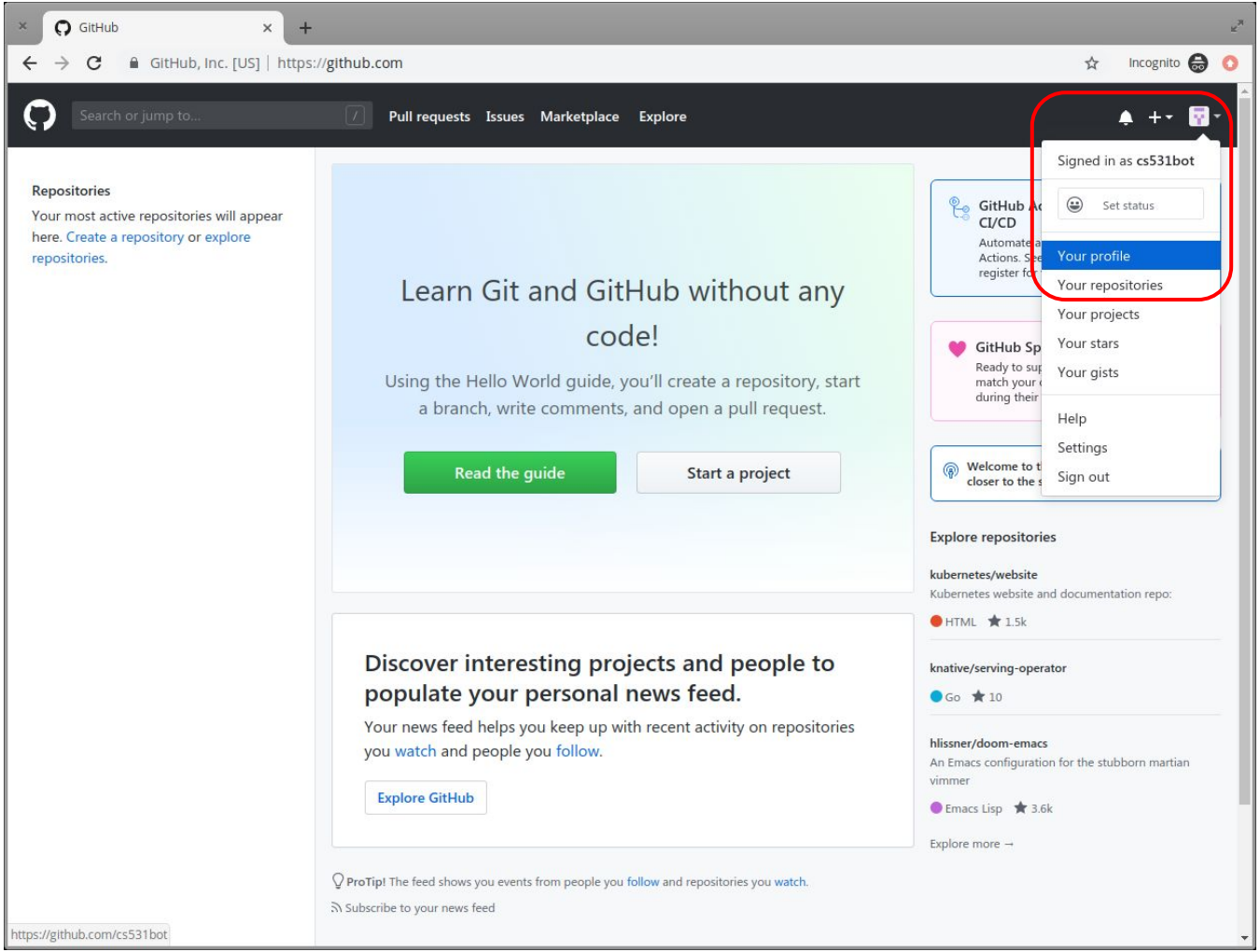
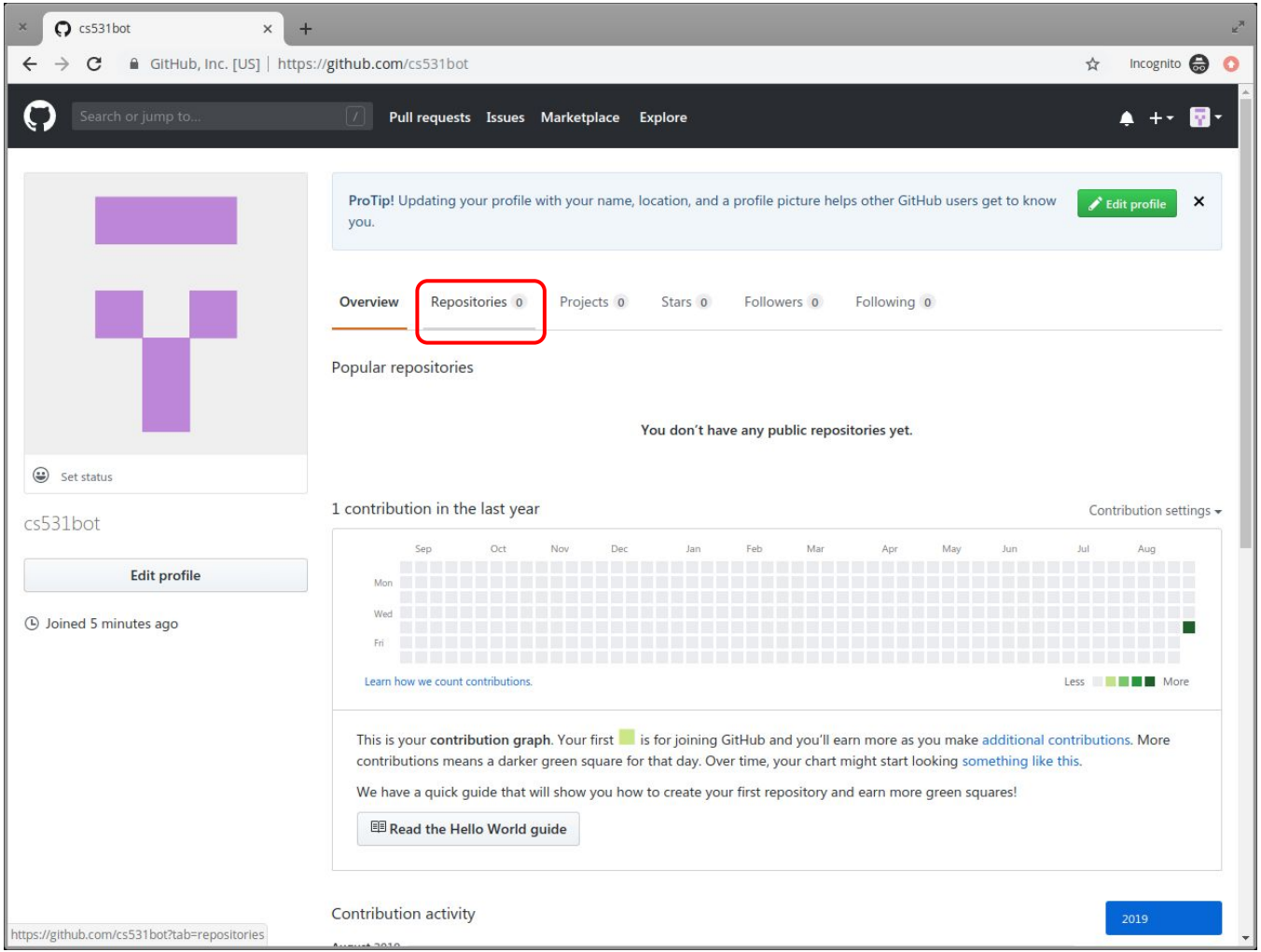
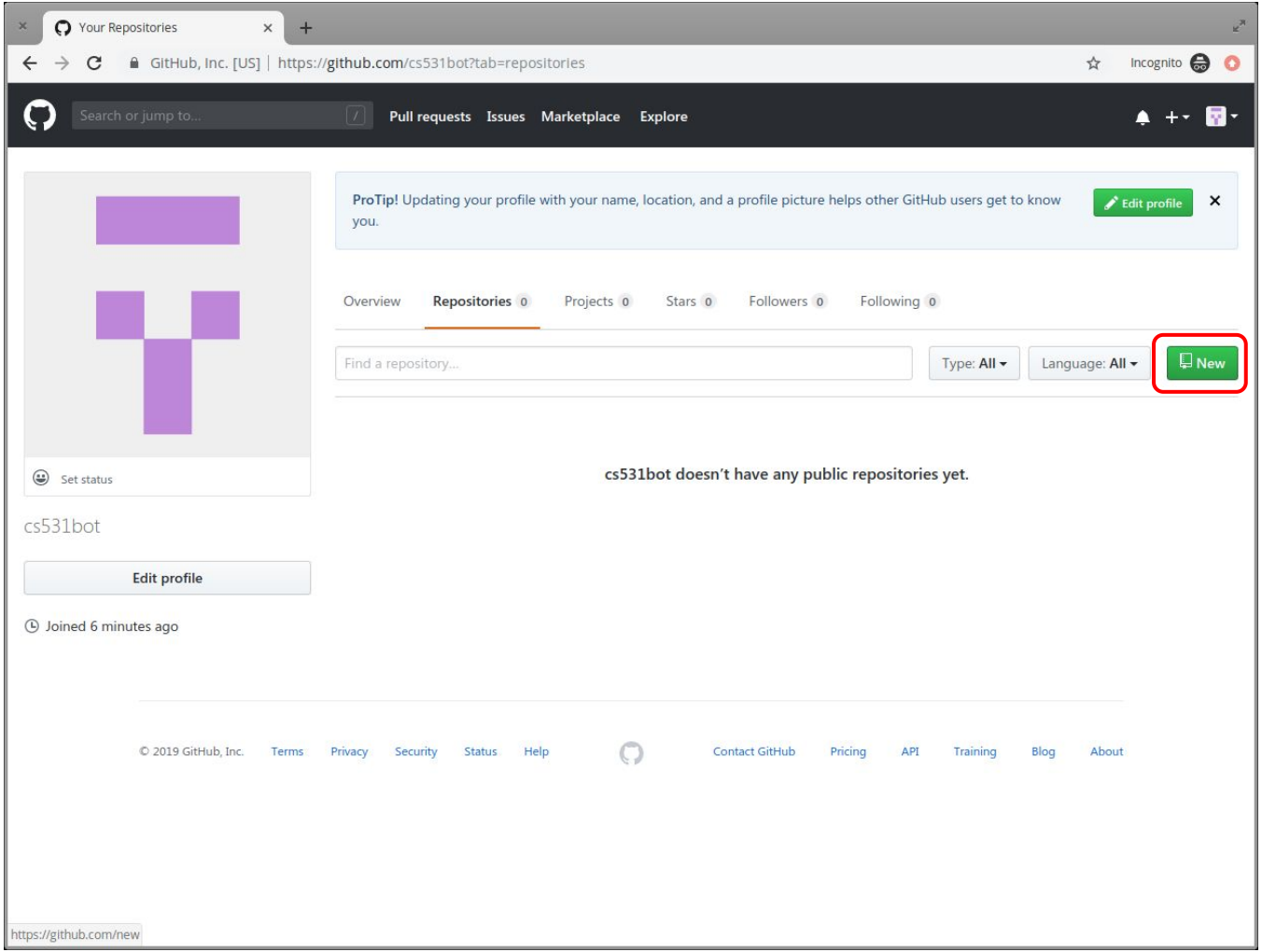
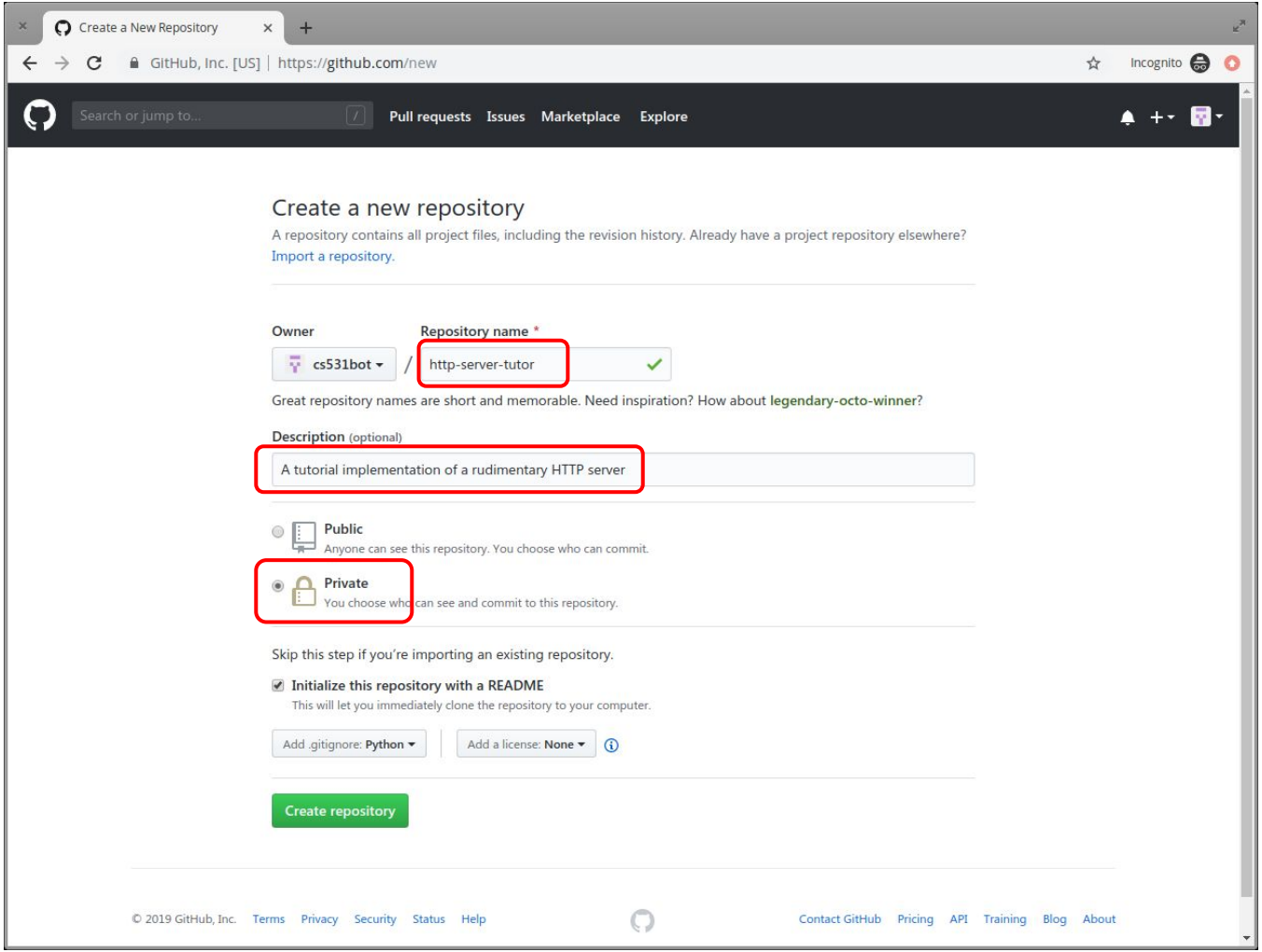
Create a Private GitHub Repository and Add “dcalano” as a Collaborator

https://github.com/


GitHub
GitHub, Inc. [US] | https://github.com
Incognito
Search or jump to...
Pull requests
Issues
Marketplace
Explore
Signed in as cs531bot
Set status
Your profile
Your repositories
Your projects
Your stars
Your gists
Help
Settings
Sign out
Repositories
Your most active repositories will appear here. Create a repository or explore repositories.
Learn Git and GitHub without any code!
Using the Hello World guide, you'll create a repository, start a branch, write comments, and open a pull request.
Read the guide
Start a project
Discover interesting projects and people to populate your personal news feed.
Your news feed helps you keep up with recent activity on repositories you watch and people you follow.
Explore GitHub
ProTip! The feed shows you events from people you follow and repositories you watch.
Subscribe to your news feed
Explore repositories
kubernetes/website
Kubernetes website and documentation repo:
HTML 1.5k
knative/serving-operator
Go 10
hlissner/doom-emacs
An Emacs configuration for the stubborn martian vimmer
Emacs Lisp 3.6k
Explore more →
https://github.com/cs531bot


cs531bot
GitHub, Inc. [US] | https://github.com/cs531bot
Incognito
Search or jump to...
Pull requests
Issues
Marketplace
Explore
ProTip! Updating your profile with your name, location, and a profile picture helps other GitHub users get to know you.
Edit profile
Overview
Repositories 0
Projects 0
Stars 0
Followers 0
Following 0
Popular repositories
You don't have any public repositories yet.
Set status
cs531bot
Edit profile
Joined 5 minutes ago
1 contribution in the last year
Contribution settings
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Mon
Wed
Fri
Learn how we count contributions.
Less
More
This is your contribution graph. Your first is for joining GitHub and you'll earn more as you make additional contributions. More contributions means a darker green square for that day. Over time, your chart might start looking something like this.
We have a quick guide that will show you how to create your first repository and earn more green squares!
Read the Hello World guide
Contribution activity
2019
https://github.com/cs531bot?tab=repositories


Your Repositories
GitHub, Inc. [US] | https://github.com/cs531bot?tab=repositories
Incognito
Search or jump to...
Pull requests
Issues
Marketplace
Explore
ProTip! Updating your profile with your name, location, and a profile picture helps other GitHub users get to know you.
Edit profile
Overview
Repositories 0
Projects 0
Stars 0
Followers 0
Following 0
Find a repository...
Type: All
Language: All
New
cs531bot doesn't have any public repositories yet.
Set status
cs531bot
Edit profile
Joined 6 minutes ago
© 2019 GitHub, Inc.
Terms
Privacy
Security
Status
Help
Contact GitHub
Pricing
API
Training
Blog
About
https://github.com/new


Create a New Repository
GitHub, Inc. [US] | https://github.com/new
Incognito
Search or jump to...
Pull requests
Issues
Marketplace
Explore
Create a new repository
A repository contains all project files, including the revision history. Already have a project repository elsewhere?
Import a repository.
Owner
Repository name *
cs531bot
http-server-tutor
Great repository names are short and memorable. Need inspiration? How about legendary-octo-winner?
Description (optional)
A tutorial implementation of a rudimentary HTTP server
Public
Anyone can see this repository. You choose who can commit.
Private
You choose who can see and commit to this repository.
Skip this step if you're importing an existing repository.
Initialize this repository with a README
This will let you immediately clone the repository to your computer.
Add .gitignore: Python
Add a license: None
Create repository
© 2019 GitHub, Inc.
Terms
Privacy
Security
Status
Help
Contact GitHub
Pricing
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Training
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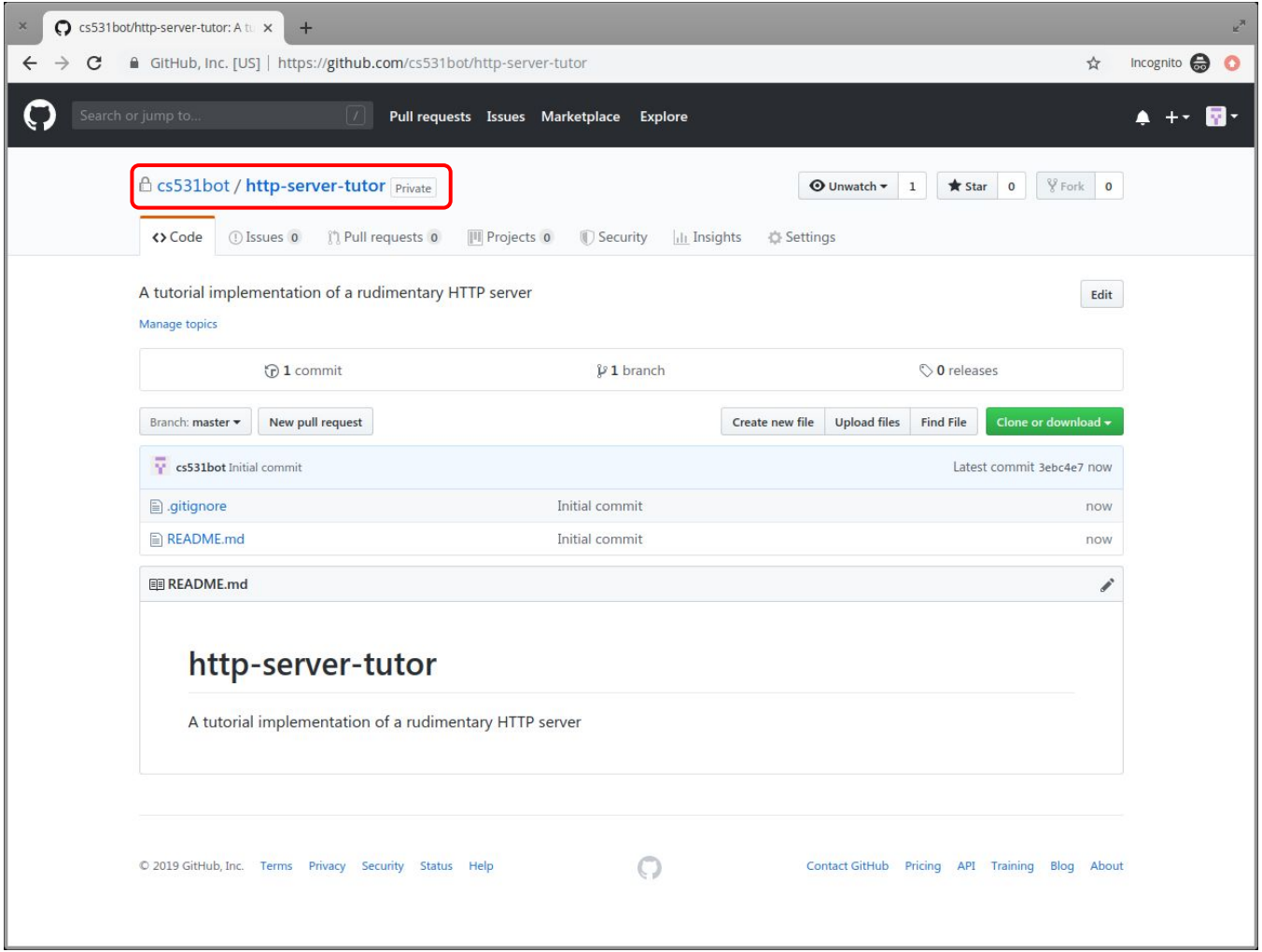
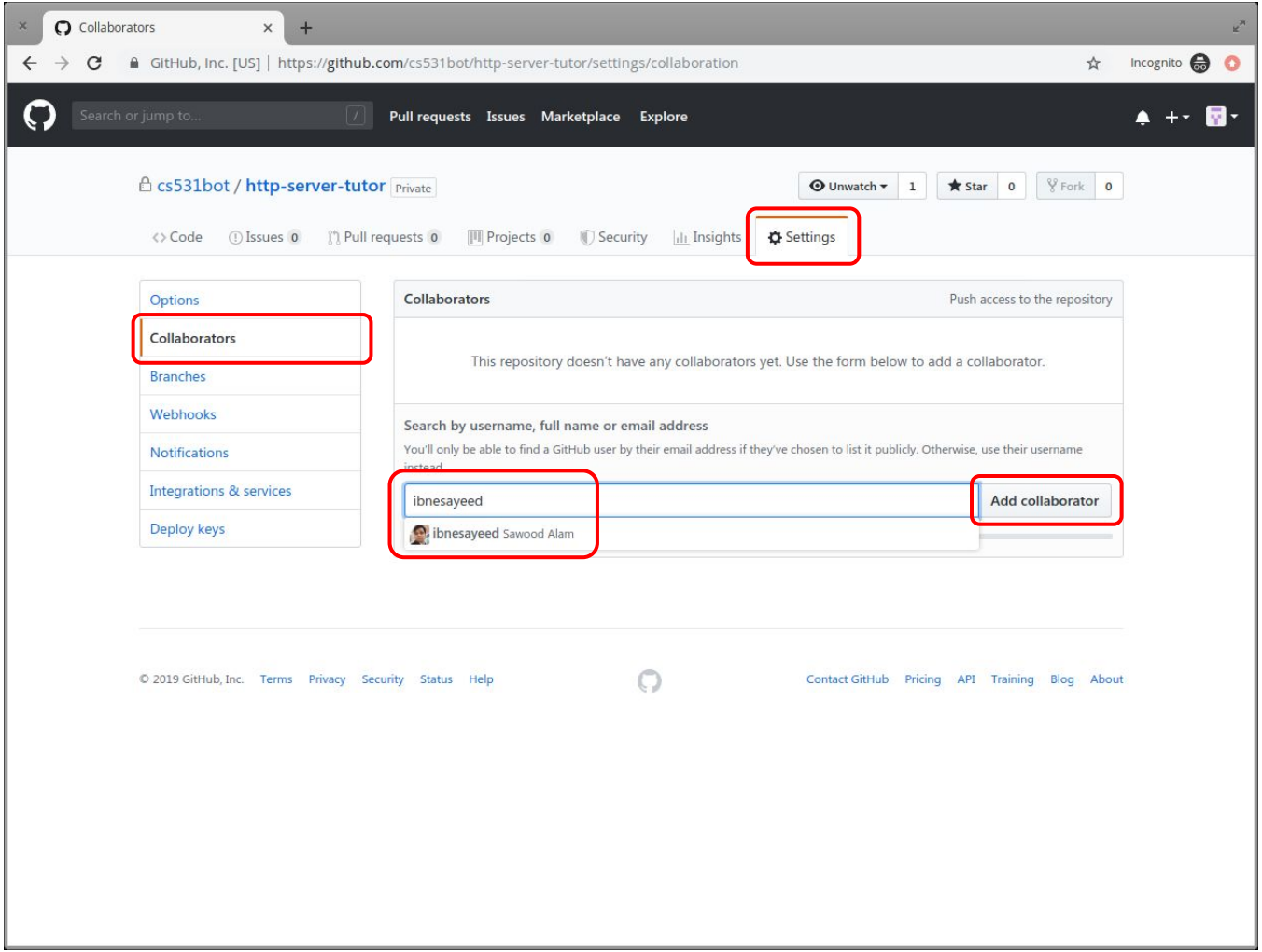
About


cs531bot/http-server-tutor: A tu
GitHub, Inc. [US] | https://github.com/cs531bot/http-server-tutor
Incognito
Search or jump to...
Pull requests
Issues
Marketplace
Explore
cs531bot / http-server-tutor
Private
Unwatch 1
Star 0
Fork 0
Code
Issues 0
Pull requests 0
Projects 0
Security
Insights
Settings
A tutorial implementation of a rudimentary HTTP server
Edit
Manage topics
1 commit
1 branch
0 releases
Branch: master
New pull request
Create new file
Upload files
Find File
Clone or download
cs531bot Initial commit
Latest commit 3ebc4e7 now
.gitignore
Initial commit
now
README.md
Initial commit
now
README.md
http-server-tutor
A tutorial implementation of a rudimentary HTTP server
© 2019 GitHub, Inc.
Terms
Privacy
Security
Status
Help
Contact GitHub
Pricing
API
Training
Blog
About


Collaborators
GitHub, Inc. [US] | https://github.com/cs531bot/http-server-tutor/settings/collaboration
Incognito
Search or jump to...
Pull requests
Issues
Marketplace
Explore
cs531bot / http-server-tutor
Private
Unwatch 1
Star 0
Fork 0
Code
Issues 0
Pull requests 0
Projects 0
Security
Insights
Settings
Options
Collaborators
Branches
Webhooks
Notifications
Integrations & services
Deploy keys
Collaborators
Push access to the repository
This repository doesn't have any collaborators yet. Use the form below to add a collaborator.
Search by username, full name or email address
You'll only be able to find a GitHub user by their email address if they've chosen to list it publicly. Otherwise, use their username instead.
ibnesayeed
Add collaborator
ibnesayeed Sawood Alam
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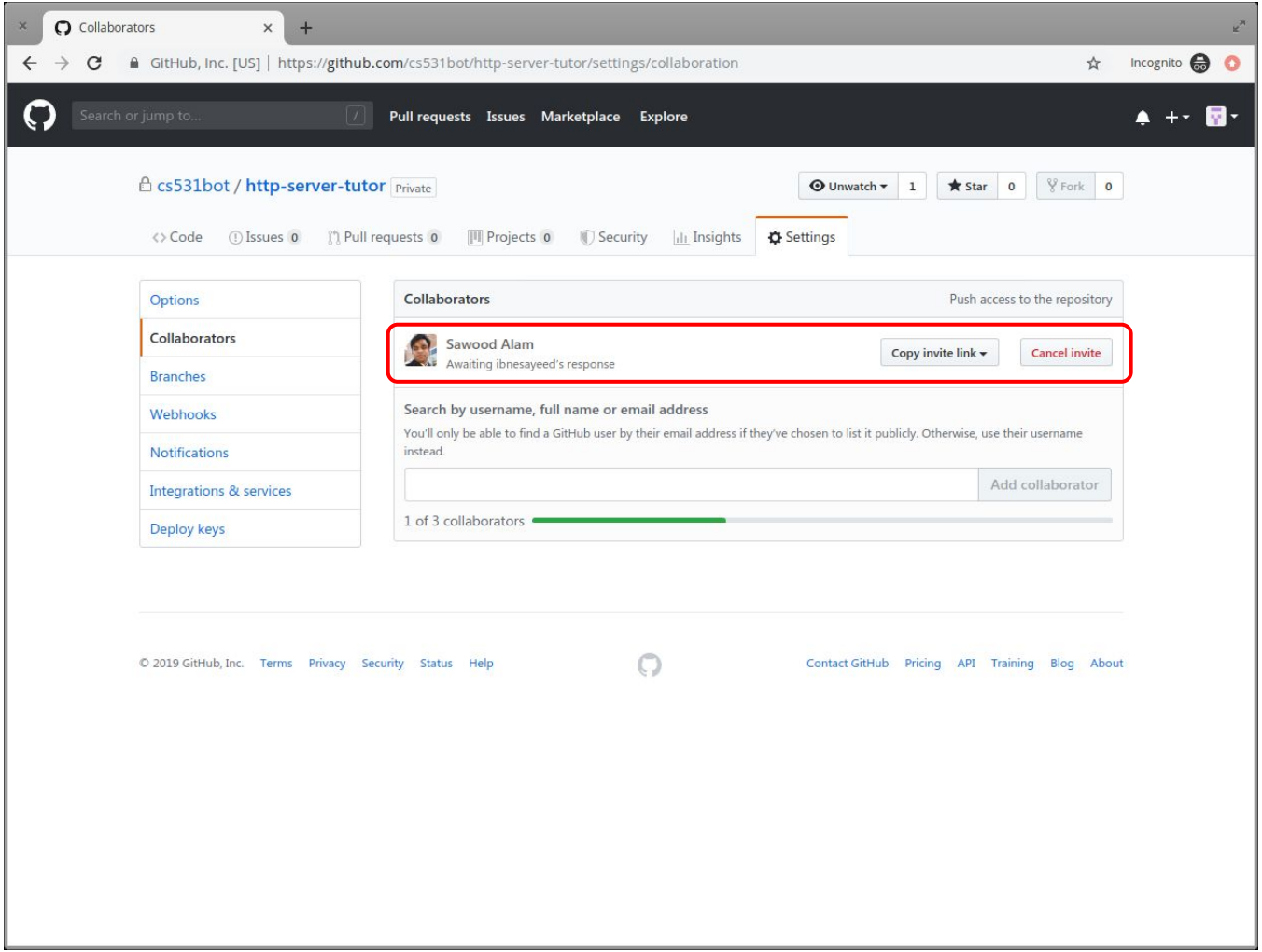
Privacy
Security
Status
Help
Contact GitHub
Pricing
API
Training
Blog
About


Collaborators
GitHub, Inc. [US] | https://github.com/cs531bot/http-server-tutor/settings/collaboration
Incognito
Search or jump to...
Pull requests
Issues
Marketplace
Explore
cs531bot / http-server-tutor
Private
Unwatch 1
Star 0
Fork 0
Code
Issues 0
Pull requests 0
Projects 0
Security
Insights
Settings
Options
Collaborators
Branches
Webhooks
Notifications
Integrations & services
Deploy keys
Collaborators
Push access to the repository
Sawood Alam
Awaiting ibnesayeed's response
Copy invite link
Cancel invite
Search by username, full name or email address
You'll only be able to find a GitHub user by their email address if they've chosen to list it publicly. Otherwise, use their username instead.
Add collaborator
1 of 3 collaborators
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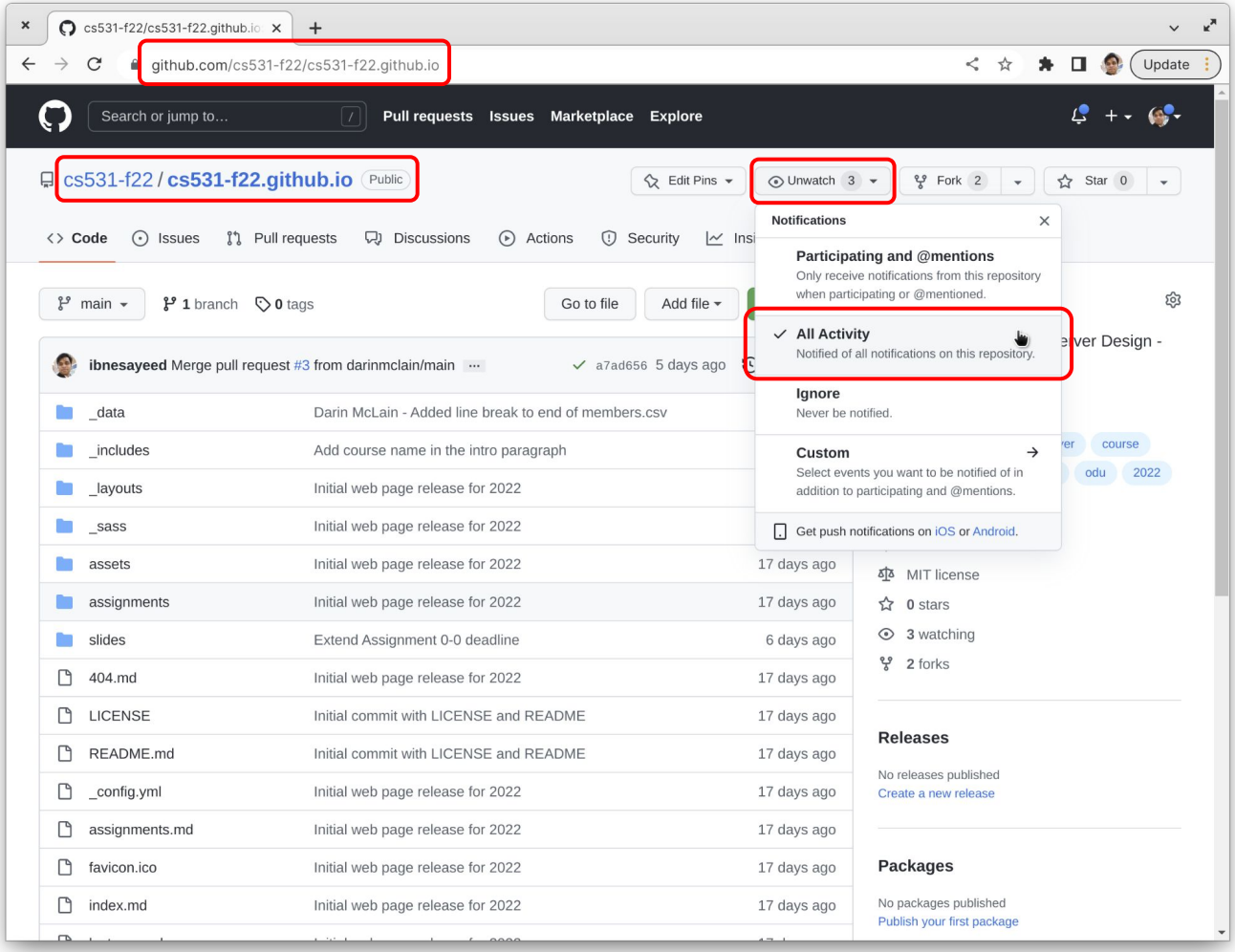
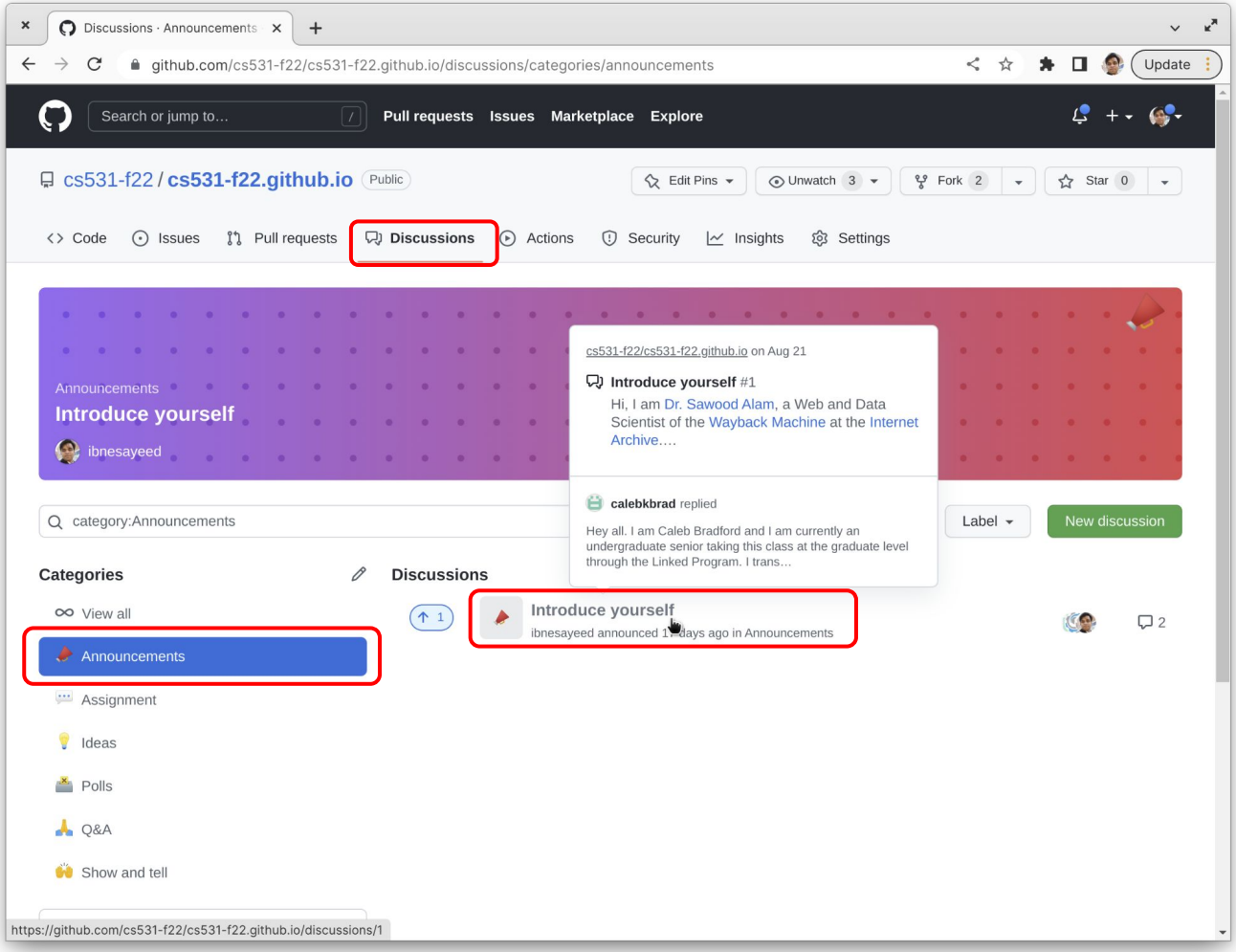
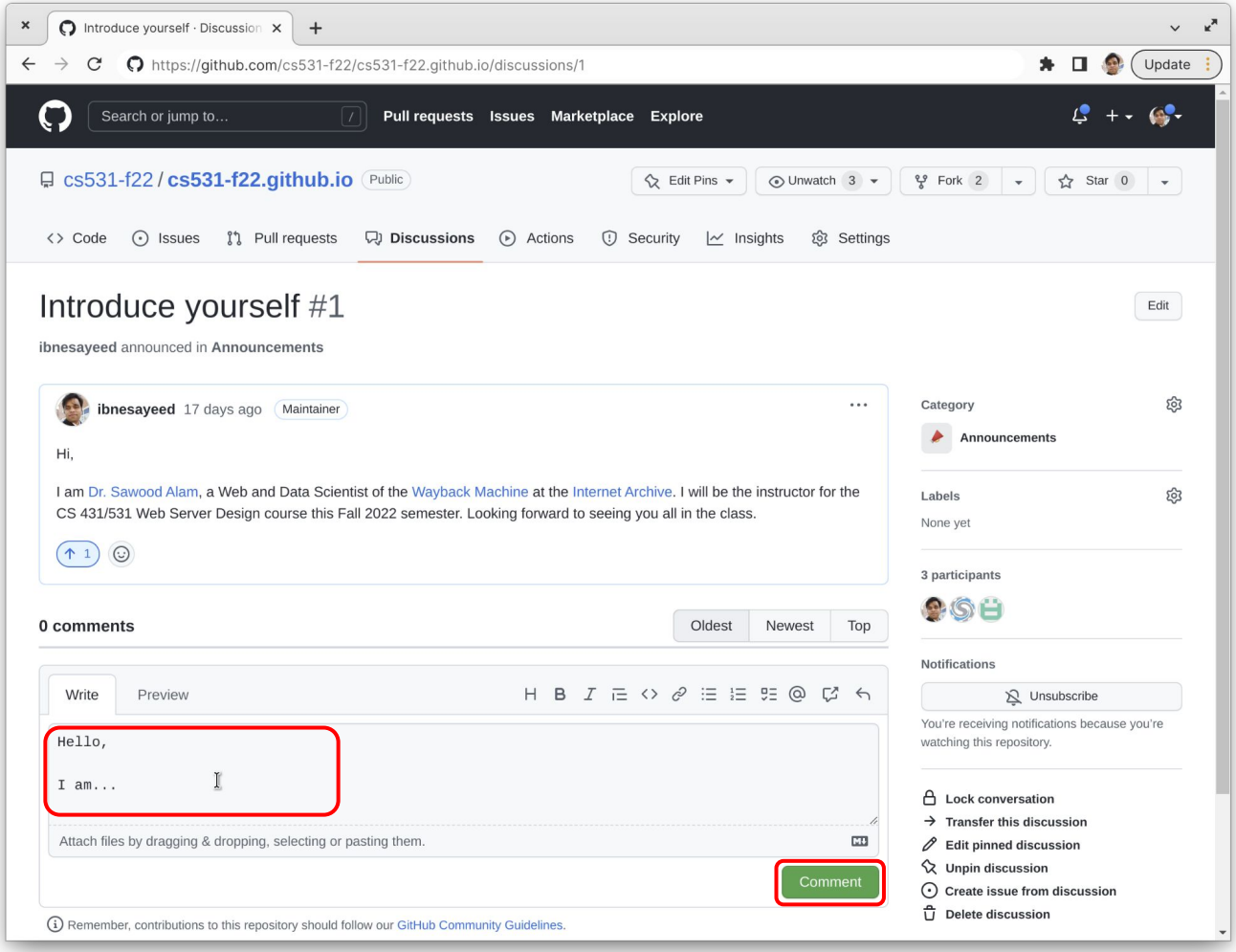
Watch the Course Discussion Repository and Introduce Yourself

https://github.com/cs531-s26/cs531-s26.github.io/discussions

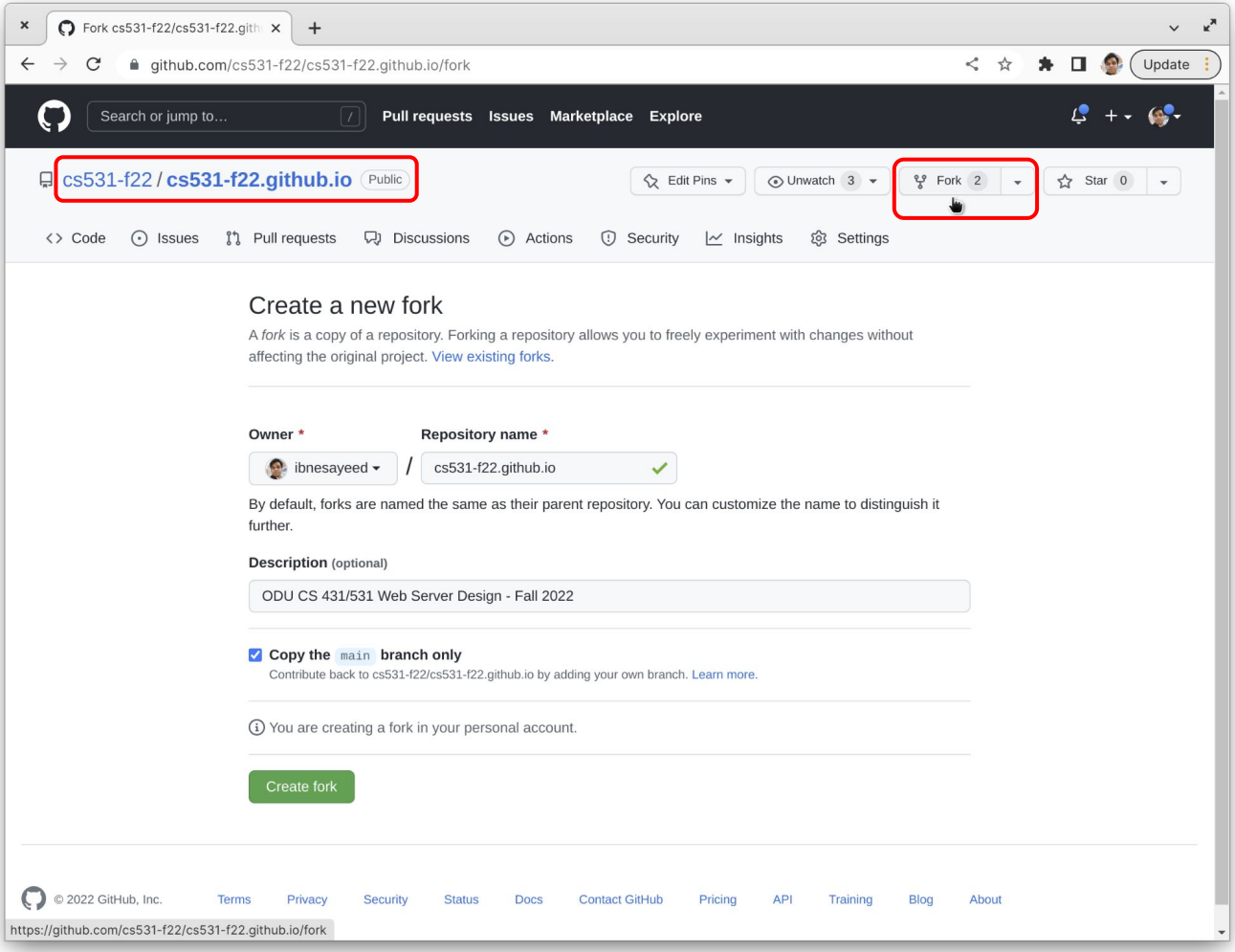

cs531-f22/cs531-f22.github.io
github.com/cs531-f22/cs531-f22.github.io
Update
Search or jump to…
Pull requests
Issues
Marketplace
Explore
cs531-f22 / cs531-f22.github.io
Public
Edit Pins
Unwatch 3
Fork 2
Star 0
Code
Issues
Pull requests
Discussions
Actions
Security
Notifications
Participating and @mentions
Only receive notifications from this repository when participating or @mentioned.
All Activity
Notified of all notifications on this repository.
Ignore
Never be notified.
Custom
Select events you want to be notified of in addition to participating and @mentions.
Get push notifications on iOS or Android.
main
1 branch
0 tags
Go to file
Add file
ibnesayeed Merge pull request #3 from darinmclain/main
a7ad656 5 days ago
_data Darin McLain - Added line break to end of members.csv
_includes Add course name in the intro paragraph
_layouts Initial web page release for 2022
_sass Initial web page release for 2022
assets Initial web page release for 2022 17 days ago
assignments Initial web page release for 2022 17 days ago
slides Extend Assignment 0-0 deadline 6 days ago
404.md Initial web page release for 2022 17 days ago
LICENSE Initial commit with LICENSE and README 17 days ago
README.md Initial commit with LICENSE and README 17 days ago
_config.yml Initial web page release for 2022 17 days ago
assignments.md Initial web page release for 2022 17 days ago
favicon.ico Initial web page release for 2022 17 days ago
index.md Initial web page release for 2022 17 days ago
course
odu
2022
MIT license
0 stars
3 watching
2 forks
Releases
No releases published
Create a new release
Packages
No packages published
Publish your first package

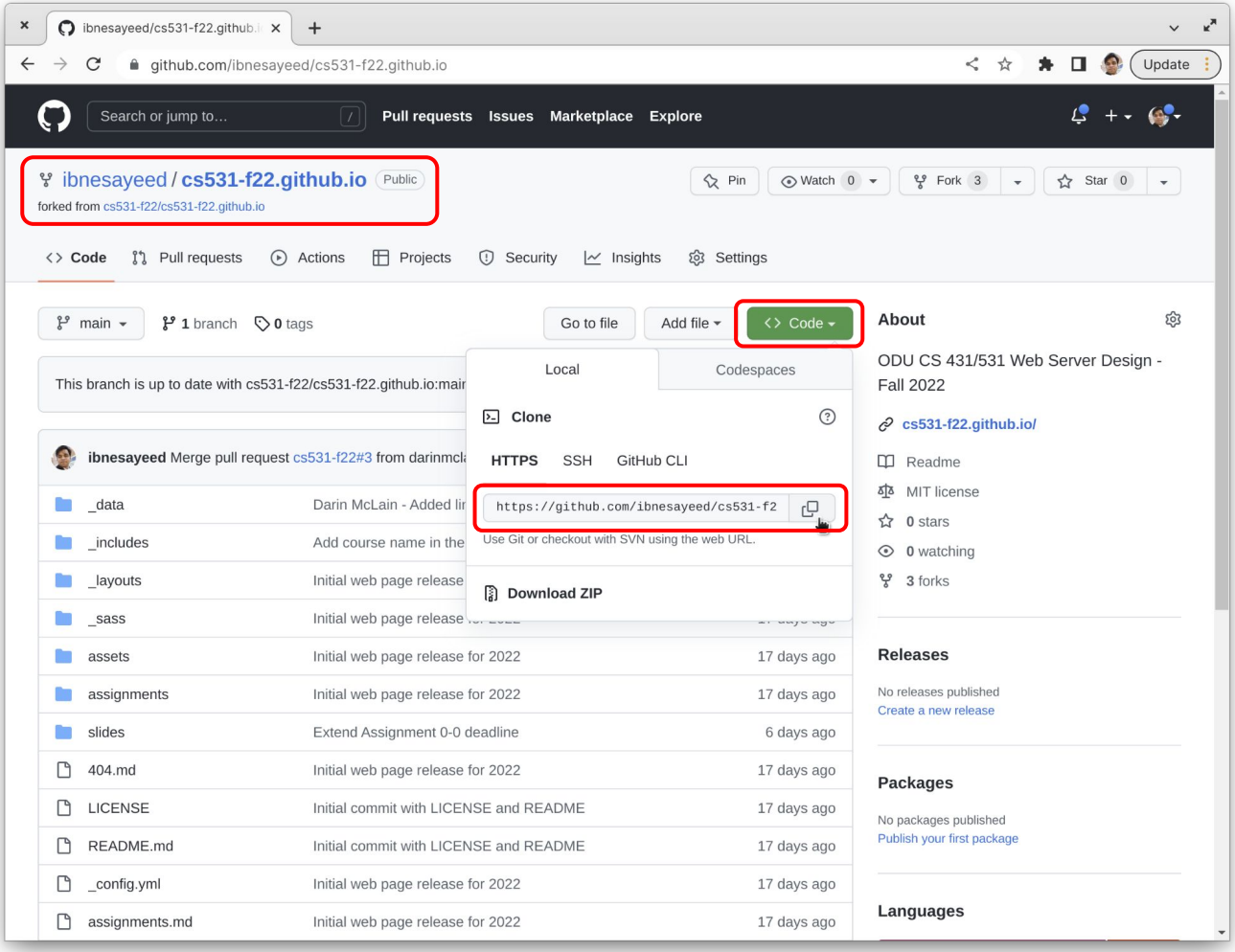

Discussions · Announcements
github.com/cs531-f22/cs531-f22.github.io/discussions/categories/announcements
Update
Search or jump to…
Pull requests
Issues
Marketplace
Explore
cs531-f22 / cs531-f22.github.io
Public
Edit Pins
Unwatch 3
Fork 2
Star 0
Code
Issues
Pull requests
Discussions
Actions
Security
Insights
Settings
Announcements
Introduce yourself
ibnesayeed
cs531-f22/cs531-f22.github.io on Aug 21
Introduce yourself #1
Hi, I am Dr. Sawood Alam, a Web and Data Scientist of the Wayback Machine at the Internet Archive….
calebkbrad replied
Hey all. I am Caleb Bradford and I am currently an undergraduate senior taking this class at the graduate level through the Linked Program. I trans…
category:Announcements
Label
New discussion
Categories
Discussions
View all
Announcements
Assignment
Ideas
Polls
Q&A
Show and tell
1
Introduce yourself
ibnesayeed announced 11 days ago in Announcements
2
https://github.com/cs531-f22/cs531-f22.github.io/discussions/1

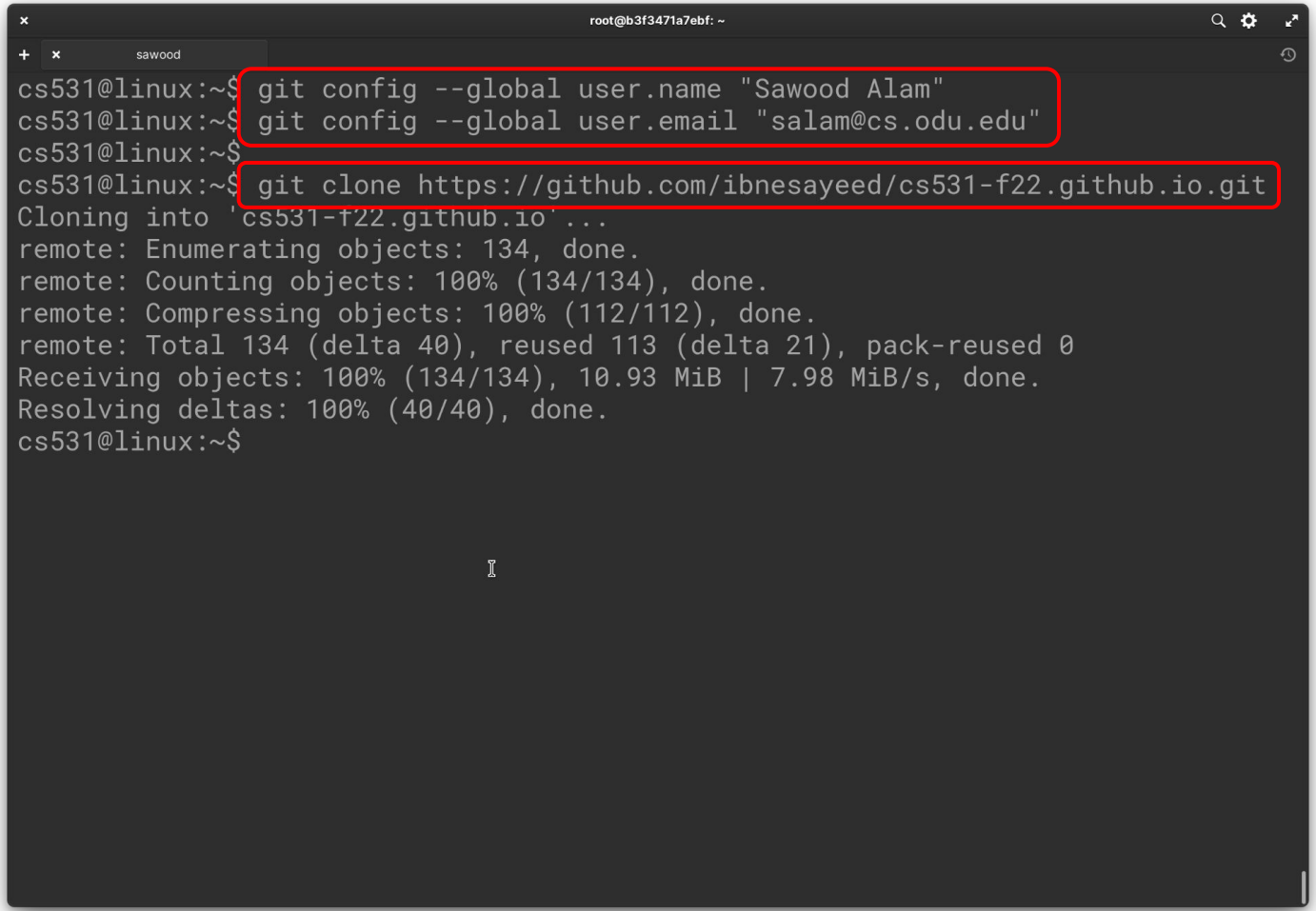

Introduce yourself · Discussion
https://github.com/cs531-f22/cs531-f22.github.io/discussions/1
Update
Search or jump to…
Pull requests
Issues
Marketplace
Explore
cs531-f22 / cs531-f22.github.io
Public
Edit Pins
Unwatch 3
Fork 2
Star 0
Code
Issues
Pull requests
Discussions
Actions
Security
Insights
Settings
Introduce yourself #1
Edit
ibnesayeed announced in Announcements
ibnesayeed 17 days ago
Maintainer
Hi,
I am Dr. Sawood Alam, a Web and Data Scientist of the Wayback Machine at the Internet Archive. I will be the instructor for the CS 431/531 Web Server Design course this Fall 2022 semester. Looking forward to seeing you all in the class.
1
0 comments
Oldest
Newest
Top
Write
Preview
Hello,
I am...
Attach files by dragging & dropping, selecting or pasting them.
Comment
Remember, contributions to this repository should follow our GitHub Community Guidelines.
Category
Announcements
Labels
None yet
3 participants
Notifications
Unsubscribe
You're receiving notifications because you're watching this repository.
Lock conversation
Transfer this discussion
Edit pinned discussion
Unpin discussion
Create issue from discussion
Delete discussion

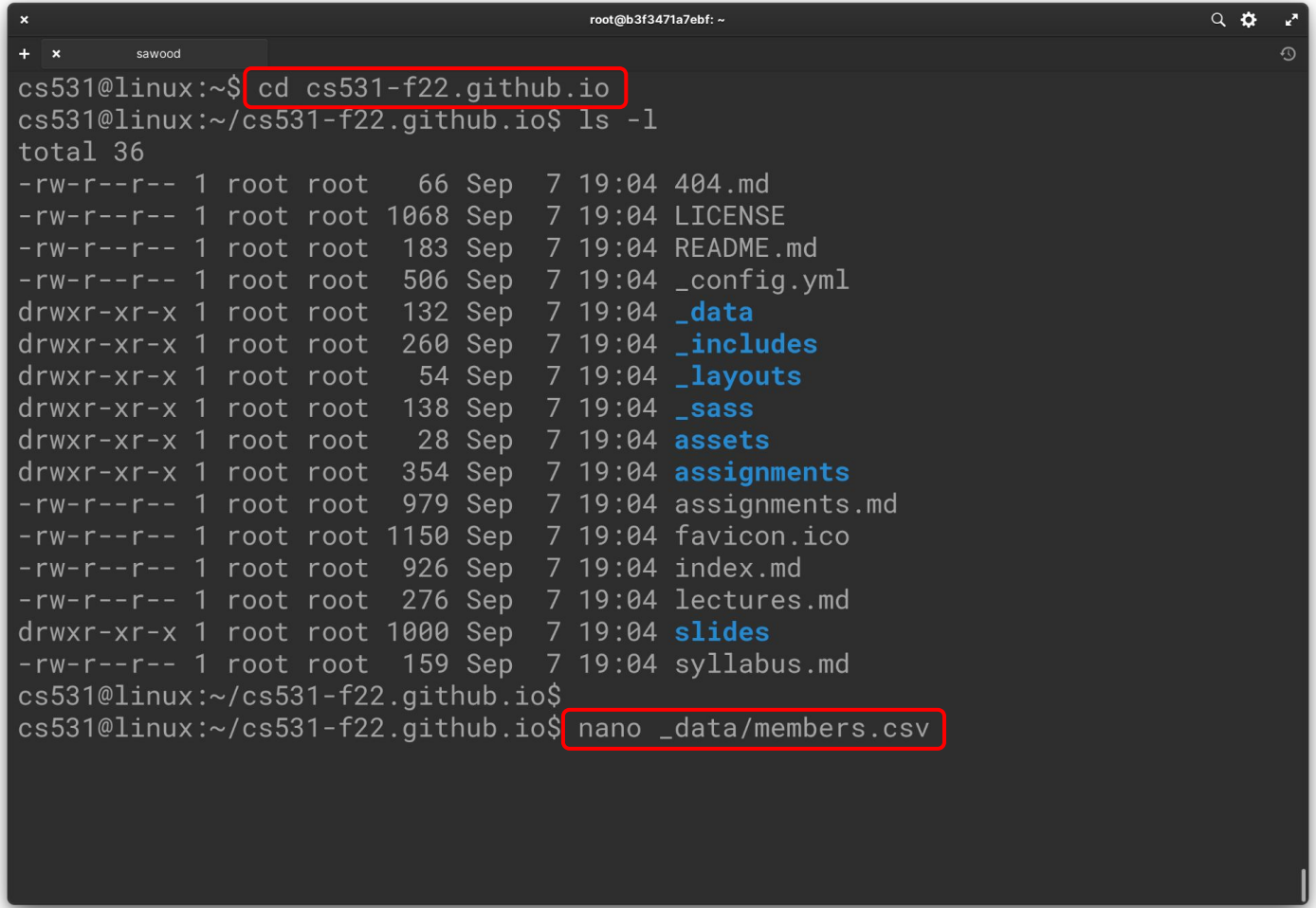
Fork the Course Repository, Add Your Details in the Members List, and Create a Pull Request

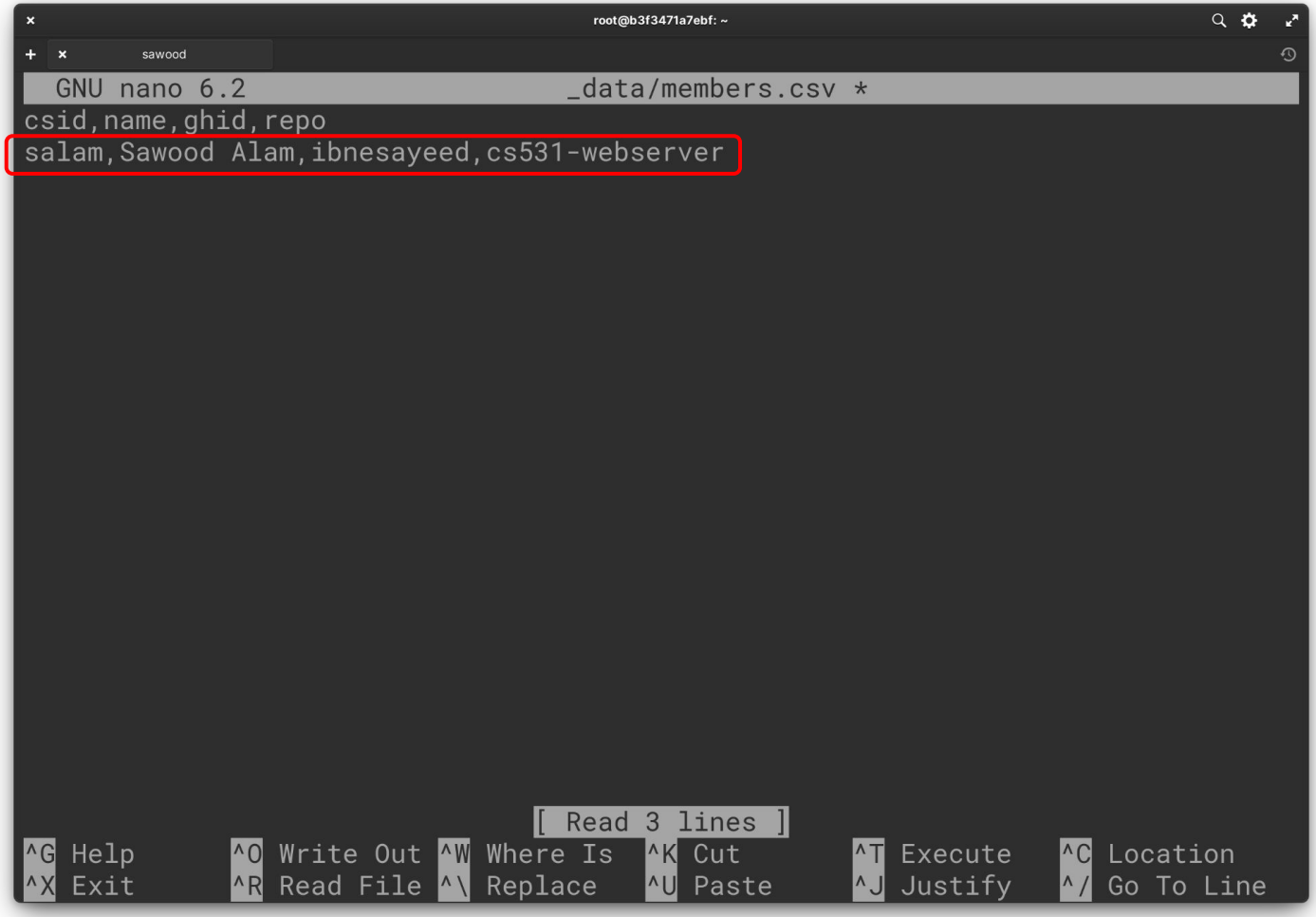
https://github.com/cs531-s26/cs531-s26.github.io/

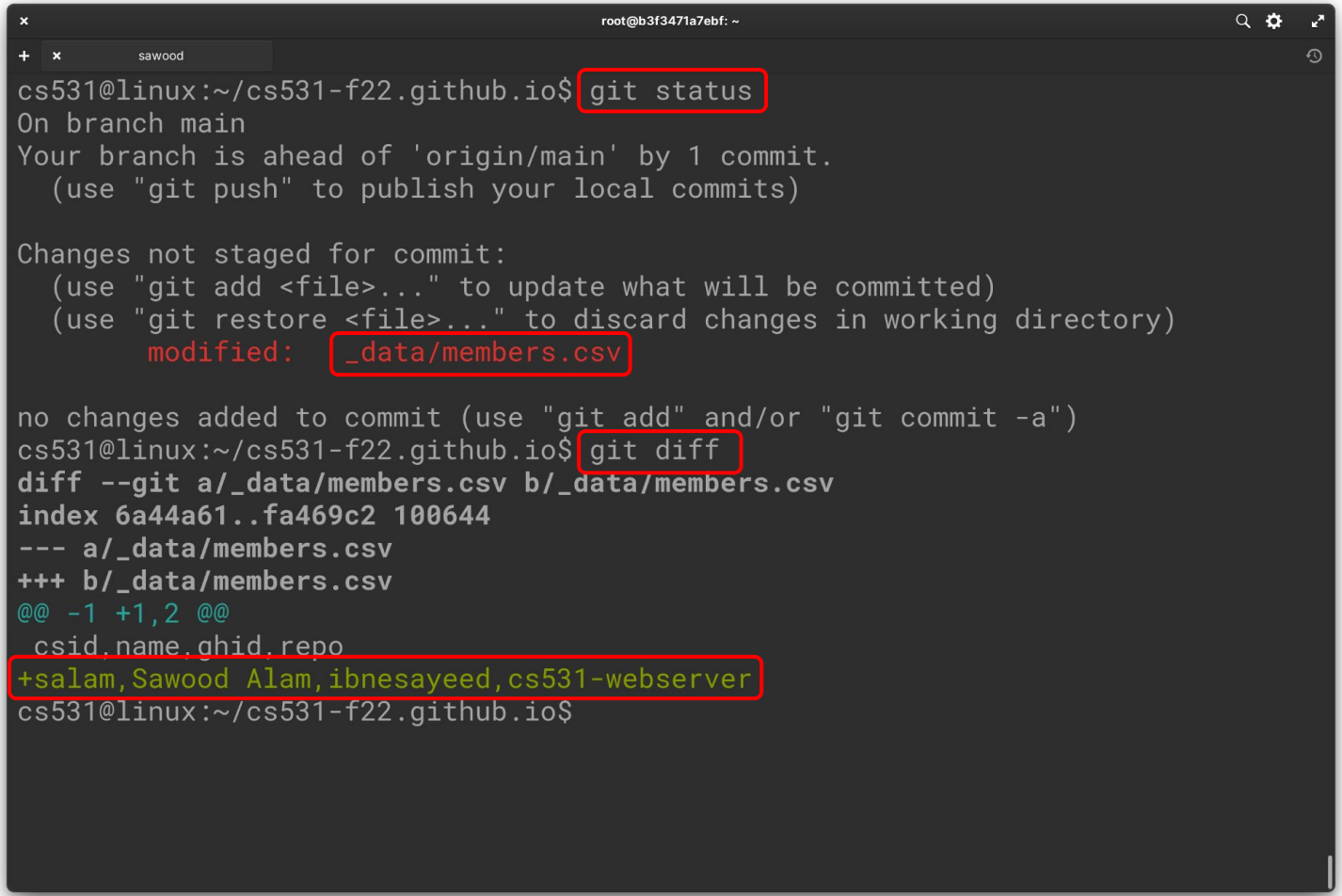

Fork cs531-f22/cs531-f22.gith
github.com/cs531-f22/cs531-f22.github.io/fork
Update
Search or jump to…
Pull requests
Issues
Marketplace
Explore
cs531-f22 / cs531-f22.github.io
Public
Edit Pins
Unwatch 3
Fork 2
Star 0
Code
Issues
Pull requests
Discussions
Actions
Security
Insights
Settings
Create a new fork
A fork is a copy of a repository. Forking a repository allows you to freely experiment with changes without affecting the original project. View existing forks.
Owner *
Repository name *
ibnesayeed
/
cs531-f22.github.io
By default, forks are named the same as their parent repository. You can customize the name to distinguish it further.
Description (optional)
ODU CS 431/531 Web Server Design - Fall 2022
Copy the main branch only
Contribute back to cs531-f22/cs531-f22.github.io by adding your own branch. Learn more.
You are creating a fork in your personal account.
Create fork
© 2022 GitHub, Inc.
Terms
Privacy
Security
Status
Docs
Contact GitHub
Pricing
API
Training
Blog
About
https://github.com/cs531-f22/cs531-f22.github.io/fork

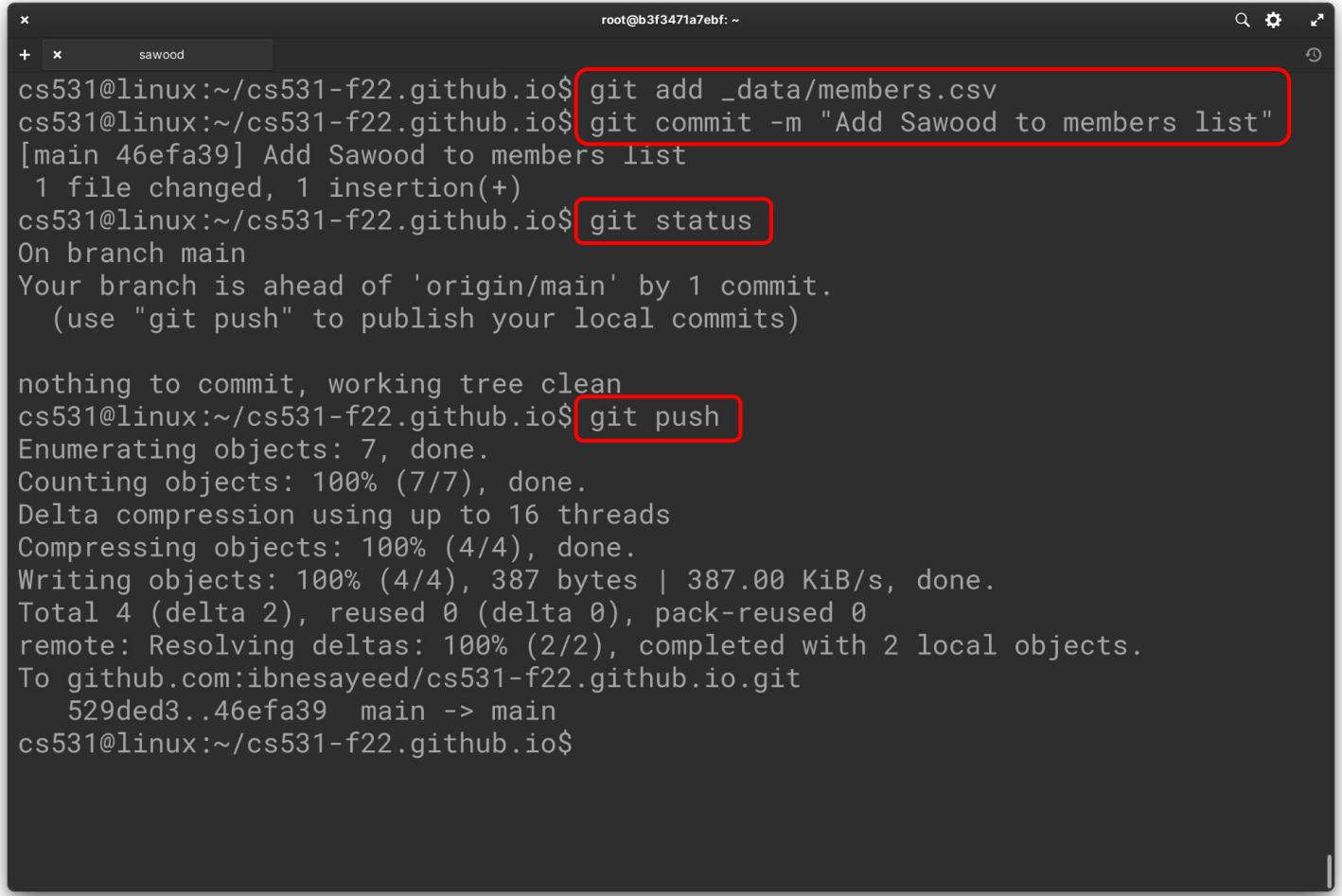

ibnesayeed/cs531-f22.github.io
github.com/ibnesayeed/cs531-f22.github.io
Update
Search or jump to…
Pull requests
Issues
Marketplace
Explore
ibnesayeed / cs531-f22.github.io
Public
forked from cs531-f22/cs531-f22.github.io
Pin
Watch 0
Fork 3
Star 0
Code
Pull requests
Actions
Projects
Security
Insights
Settings
main
1 branch
0 tags
Go to file
Add file
Code
This branch is up to date with cs531-f22/cs531-f22.github.io:mair
ibnesayeed Merge pull request cs531-f22#3 from darinmcla
_data
Darin McLain - Added lir
_includes
Add course name in the
_layouts
Initial web page release
_sass
Initial web page release
assets
Initial web page release for 2022
17 days ago
assignments
Initial web page release for 2022
17 days ago
slides
Extend Assignment 0-0 deadline
6 days ago
404.md
Initial web page release for 2022
17 days ago
LICENSE
Initial commit with LICENSE and README
17 days ago
README.md
Initial commit with LICENSE and README
17 days ago
_config.yml
Initial web page release for 2022
17 days ago
assignments.md
Initial web page release for 2022
17 days ago
Local
Codespaces
Clone
HTTPS
SSH
GitHub CLI
https://github.com/ibnesayeed/cs531-f2
Use Git or checkout with SVN using the web URL.
Download ZIP
About
ODU CS 431/531 Web Server Design - Fall 2022
cs531-f22.github.io/
Readme
MIT license
0 stars
0 watching
3 forks
Releases
No releases published
Create a new release
Packages
No packages published
Publish your first package
Languages

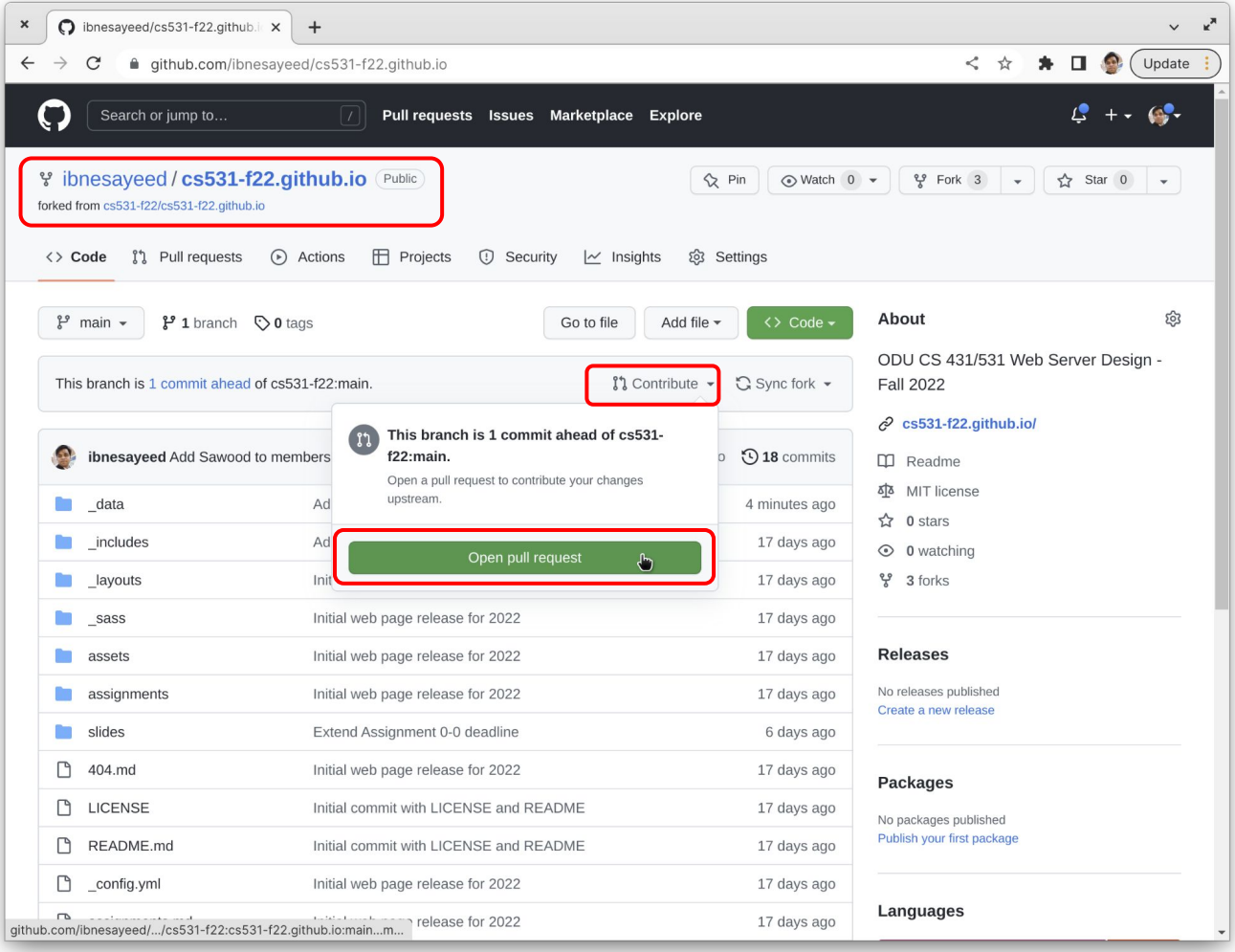

root@b3f3471a7ebf: ~
sawood
cs531@linux:~$ git config --global user.name "Sawood Alam"
cs531@linux:~$ git config --global user.email "salam@cs.odu.edu"
cs531@linux:~$
cs531@linux:~$ git clone https://github.com/ibnesayeed/cs531-f22.github.io.git
Cloning into 'cs531-f22.github.io'...
remote: Enumerating objects: 134, done.
remote: Counting objects: 100% (134/134), done.
remote: Compressing objects: 100% (112/112), done.
remote: Total 134 (delta 40), reused 113 (delta 21), pack-reused 0
Receiving objects: 100% (134/134), 10.93 MiB | 7.98 MiB/s, done.
Resolving deltas: 100% (40/40), done.
cs531@linux:~$

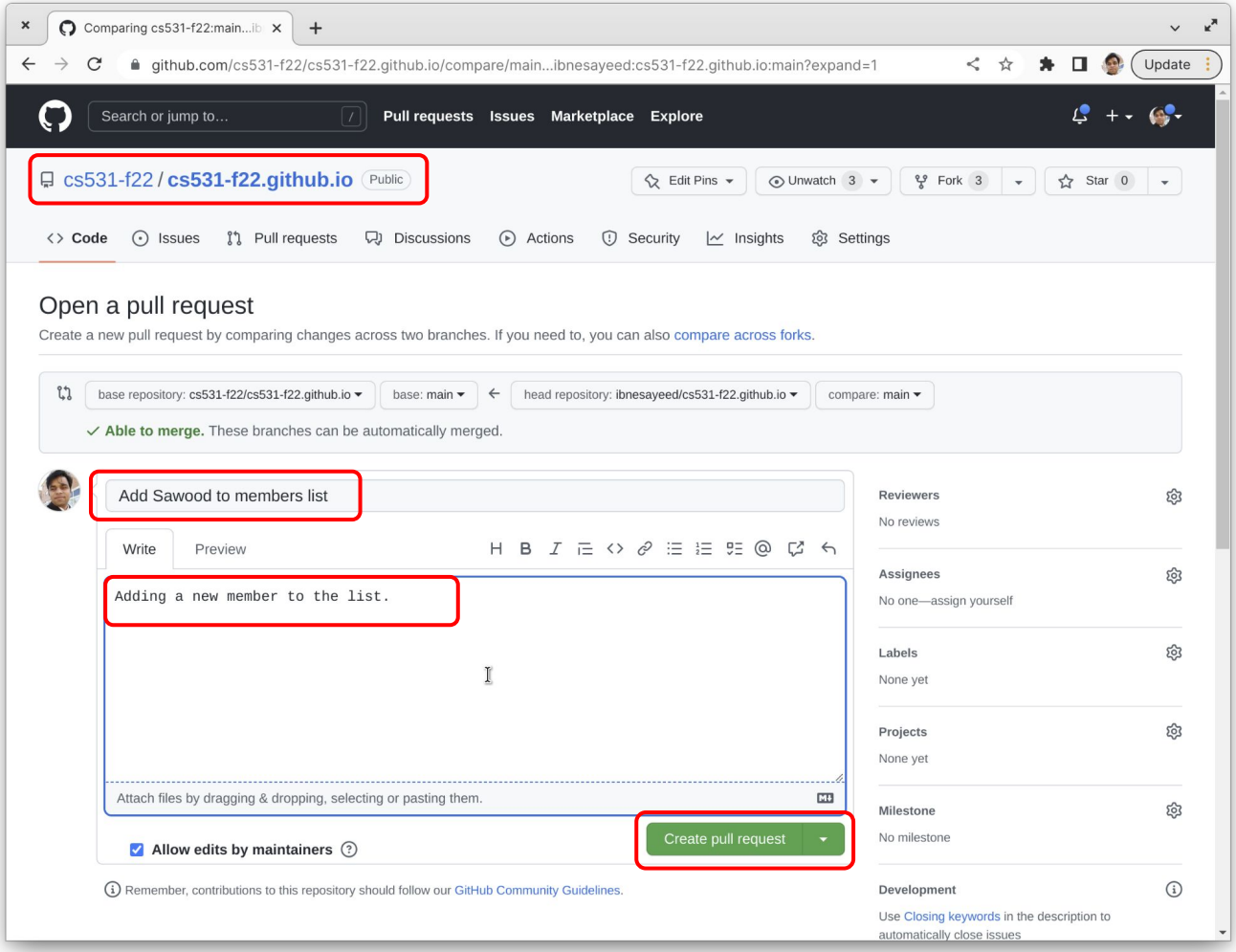

root@b3f3471a7ebf: ~
sawood
cs531@linux:~$ cd cs531-f22.github.io
cs531@linux:~/cs531-f22.github.io$ ls -l
total 36
-rw-r--r-- 1 root root   66 Sep 7 19:04 404.md
-rw-r--r-- 1 root root 1068 Sep 7 19:04 LICENSE
-rw-r--r-- 1 root root 183 Sep 7 19:04 README.md
-rw-r--r-- 1 root root 506 Sep 7 19:04 _config.yml
drwxr-xr-x 1 root root 132 Sep 7 19:04 _data
drwxr-xr-x 1 root root 260 Sep 7 19:04 _includes
drwxr-xr-x 1 root root   54 Sep 7 19:04 _layouts
drwxr-xr-x 1 root root 138 Sep 7 19:04 _sass
drwxr-xr-x 1 root root   28 Sep 7 19:04 assets
drwxr-xr-x 1 root root 354 Sep 7 19:04 assignments
-rw-r--r-- 1 root root 979 Sep 7 19:04 assignments.md
-rw-r--r-- 1 root root 1150 Sep 7 19:04 favicon.ico
-rw-r--r-- 1 root root 926 Sep 7 19:04 index.md
-rw-r--r-- 1 root root 276 Sep 7 19:04 lectures.md
drwxr-xr-x 1 root root 1000 Sep 7 19:04 slides
-rw-r--r-- 1 root root 159 Sep 7 19:04 syllabus.md
cs531@linux:~/cs531-f22.github.io$
cs531@linux:~/cs531-f22.github.io$ nano _data/members.csv


root@b3f3471a7ebf: ~
sawood
GNU nano 6.2 _data/members.csv *
csid,name,ghid,repo
salam,Sawood Alam,ibnesayeed,cs531-webserver
[Read 3 lines]
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line


root@b3f3471a7ebf: ~
sawood
cs531@linux:~/cs531-f22.github.io$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)
Changes not staged for commit:
(use "git add <file>..." to update what will be committed)
(use "git restore <file>..." to discard changes in working directory)
modified: _data/members.csv
no changes added to commit (use "git add" and/or "git commit -a")
cs531@linux:~/cs531-f22.github.io$ git diff
diff --git a/_data/members.csv b/_data/members.csv
index 6a44a61..fa469c2 100644
--- a/_data/members.csv
+++ b/_data/members.csv
@@ -1 +1,2 @@
csid,name,ghid,repo
+salam,Sawood Alam,ibnesayeed,cs531-webserver
cs531@linux:~/cs531-f22.github.io$


root@b3f3471a7ebf: ~
sawood
cs531@linux:~/cs531-f22.github.io$ git add _data/members.csv
cs531@linux:~/cs531-f22.github.io$ git commit -m "Add Sawood to members list"
[main 46efa39] Add Sawood to members list
1 file changed, 1 insertion(+)
cs531@linux:~/cs531-f22.github.io$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)
nothing to commit, working tree clean
cs531@linux:~/cs531-f22.github.io$ git push
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 16 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 387 bytes | 387.00 KiB/s, done.
Total 4 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To github.com:ibnesayeed/cs531-f22.github.io.git
529ded3..46efa39 main -> main
cs531@linux:~/cs531-f22.github.io$


ibnesayeed/cs531-f22.github.io
github.com/ibnesayeed/cs531-f22.github.io
Update
Search or jump to…
Pull requests
Issues
Marketplace
Explore
ibnesayeed / cs531-f22.github.io
Public
forked from cs531-f22/cs531-f22.github.io
Pin
Watch 0
Fork 3
Star 0
Code
Pull requests
Actions
Projects
Security
Insights
Settings
main
1 branch
0 tags
Go to file
Add file
Code
This branch is 1 commit ahead of cs531-f22:main.
Contribute
Sync fork
This branch is 1 commit ahead of cs531-f22:main.
Open a pull request to contribute your changes upstream.
Open pull request
ibnesayeed Add Sawood to members
18 commits
_data
4 minutes ago
_includes
17 days ago
_layouts
17 days ago
_sass
Initial web page release for 2022
17 days ago
assets
Initial web page release for 2022
17 days ago
assignments
Initial web page release for 2022
17 days ago
slides
Extend Assignment 0-0 deadline
6 days ago
404.md
Initial web page release for 2022
17 days ago
LICENSE
Initial commit with LICENSE and README
17 days ago
README.md
Initial commit with LICENSE and README
17 days ago
_config.yml
Initial web page release for 2022
17 days ago
About
ODU CS 431/531 Web Server Design - Fall 2022
cs531-f22.github.io/
Readme
MIT license
0 stars
0 watching
3 forks
Releases
No releases published
Create a new release
Packages
No packages published
Publish your first package
Languages


Comparing cs531-f22:main...ib
github.com/cs531-f22/cs531-f22.github.io/compare/main...ibnesayeed:cs531-f22.github.io:main?expand=1
Update
Search or jump to…
Pull requests
Issues
Marketplace
Explore
cs531-f22 / cs531-f22.github.io
Public
Edit Pins
Unwatch 3
Fork 3
Star 0
Code
Issues
Pull requests
Discussions
Actions
Security
Insights
Settings
Open a pull request
Create a new pull request by comparing changes across two branches. If you need to, you can also compare across forks.
base repository: cs531-f22/cs531-f22.github.io
base: main
head repository: ibnesayeed/cs531-f22.github.io
compare: main
Able to merge. These branches can be automatically merged.
Add Sawood to members list
Write
Preview
Adding a new member to the list.
Attach files by dragging & dropping, selecting or pasting them.
Allow edits by maintainers
Create pull request
Remember, contributions to this repository should follow our GitHub Community Guidelines.
Reviewers
No reviews
Assignees
No one—assign yourself
Labels
None yet
Projects
None yet
Milestone
No milestone
Development
Use Closing keywords in the description to automatically close issues

Your Job Is Done!

Now I need to take care of the rest