

Web Server Design

Lecture 2 – Git/GitHub Walkthrough

Old Dominion University

Department of Computer Science

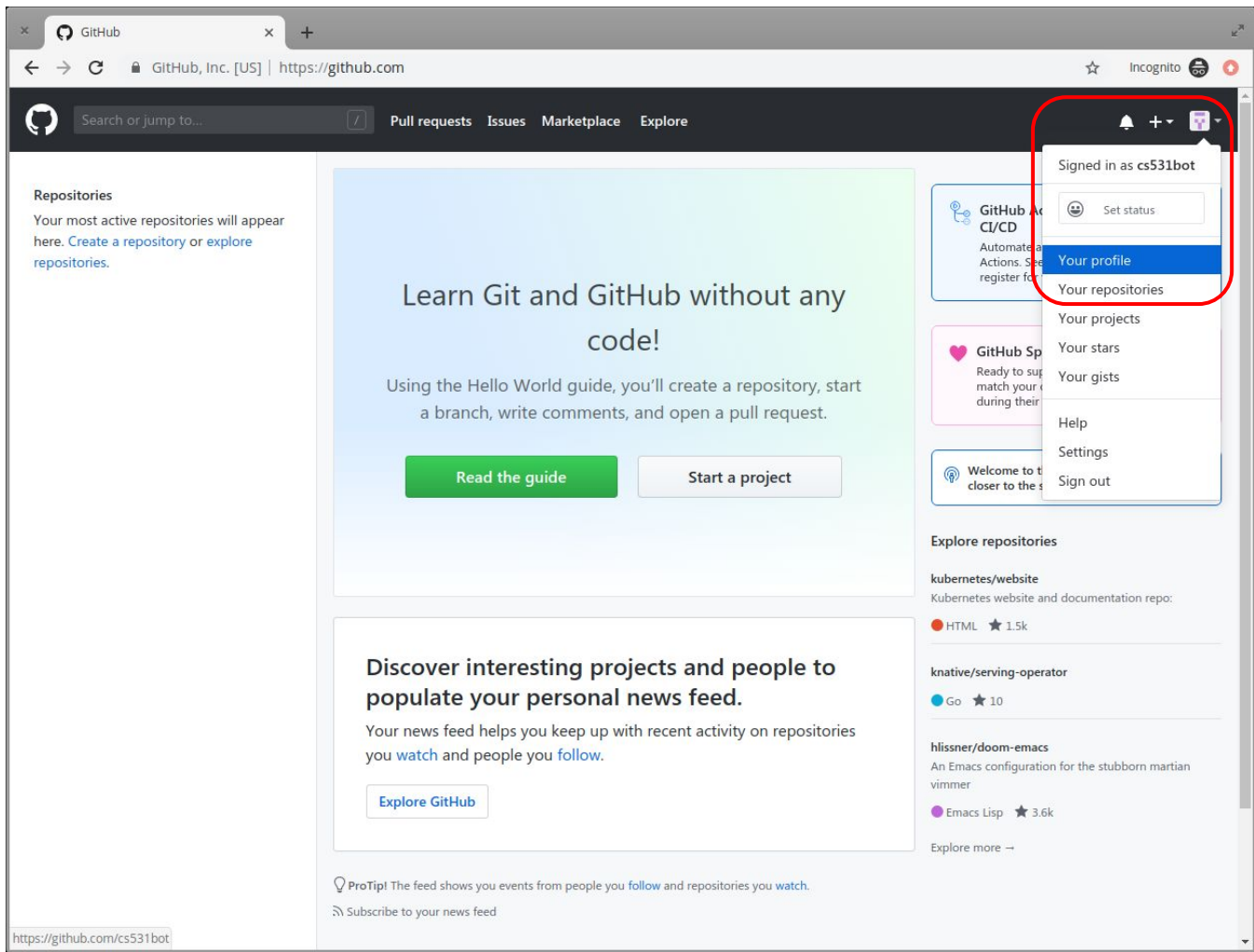
CS 431/531 Fall 2022

Sawood Alam <salam@cs.odu.edu>

2022-09-07

Create a Private GitHub Repository and Add “**ibnesayeed**” as a Collaborator

<https://github.com/>



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](#)

Signed in as cs531bot

[Set status](#)

[Your profile](#)

[Your repositories](#)

[Your projects](#)

[Your stars](#)

[Your gists](#)

[Help](#)

[Settings](#)

[Sign out](#)

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](#) →

cs531bot

GitHub, Inc. [US] | https://github.com/cs531bot

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.

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

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

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 *

Great repository names are short and memorable. Need inspiration? How about [legendary-octo-winner?](#)

Description (optional)

Public
Anyone can see this repository. You choose who can commit.

Private 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: Add a license: ⓘ

© 2019 GitHub, Inc. [Terms](#) [Privacy](#) [Security](#) [Status](#) [Help](#) [Contact GitHub](#) [Pricing](#) [API](#) [Training](#) [Blog](#) [About](#)

cs531bot/http-server-tutor: A tu x +

← → ↻ 🔒 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 0 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

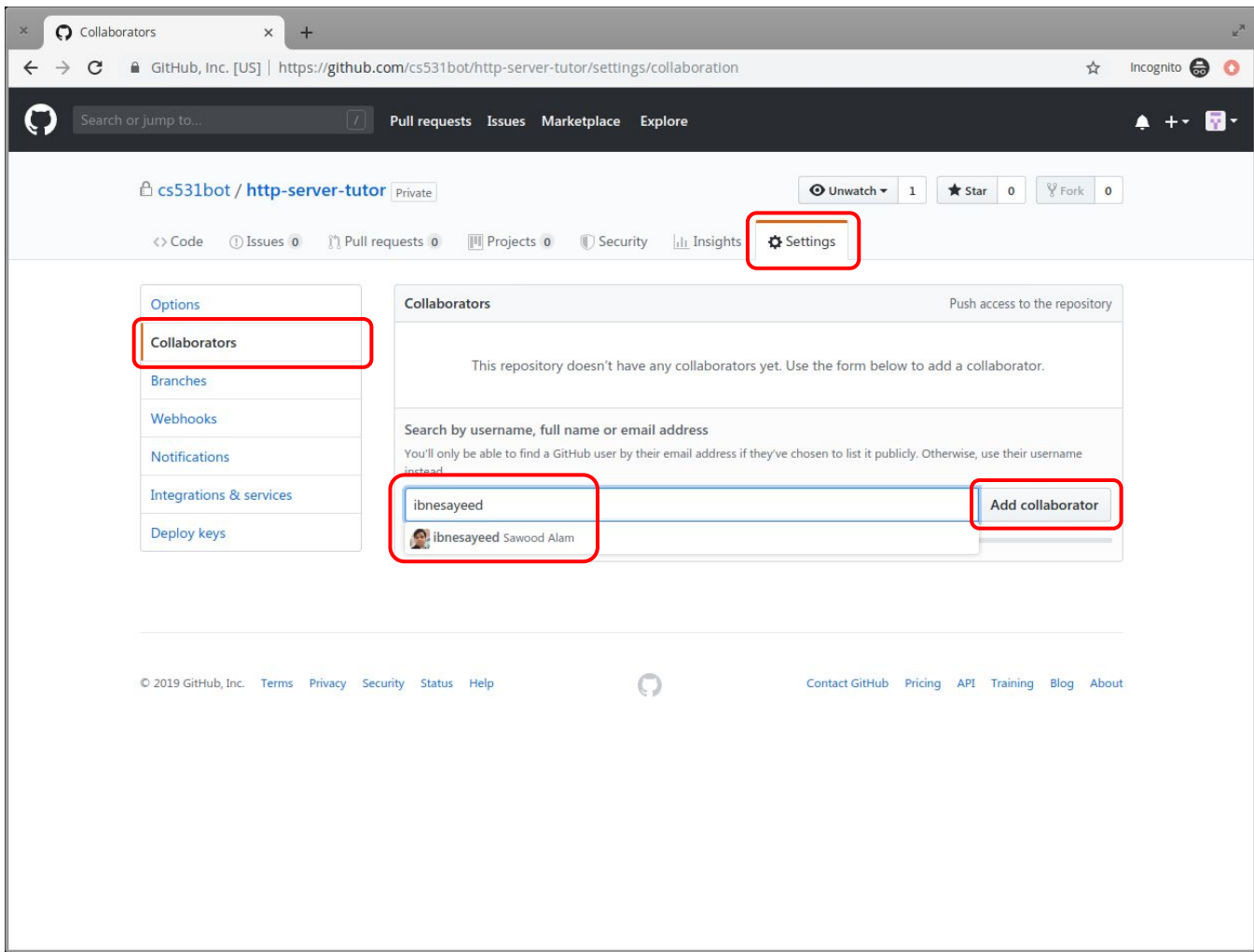
📄 .gitignore	Initial commit	now
📄 README.md	Initial commit	now

📄 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](#)



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

ibnesayeed Sawood Alam

Add collaborator



Collaborators

GitHub, Inc. [US] | https://github.com/cs531bot/http-server-tutor/settings/collaboration

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** Copy invite link Cancel invite
Awaiting ibnesayeed's response

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

© 2019 GitHub, Inc. Terms Privacy Security Status Help

Contact GitHub Pricing API Training Blog About

Watch the Course Discussion Repository and Introduce Yourself

<https://github.com/cs531-f22/cs531-f22.github.io/discussions>

The screenshot shows a GitHub repository page for `cs531-f22/cs531-f22.github.io`. The repository is public and has 3 watchers, 2 forks, and 0 stars. A notification dropdown menu is open, showing options to manage notifications. The 'All Activity' option is selected and highlighted with a red box. The repository's file list is visible on the left, and the right sidebar shows repository statistics and sections for Releases and Packages.

Repository Information:

- Repository: `cs531-f22 / cs531-f22.github.io` (Public)
- Buttons: Edit Pins, Unwatch (3), Fork (2), Star (0)
- Navigation: Code, Issues, Pull requests, Discussions, Actions, Security, Insights
- Branches: main (1 branch), tags (0 tags)

Notification Settings:

- All Activity**: Notified of all notifications on this repository.
- Participating and @mentions**: Only receive notifications from this repository when participating or @mentioned.
- 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.

Repository File List:

File Name	Description	Time
<code>_data</code>	Darin McLain - Added line break to end of members.csv	
<code>_includes</code>	Add course name in the intro paragraph	
<code>_layouts</code>	Initial web page release for 2022	
<code>_sass</code>	Initial web page release for 2022	
<code>assets</code>	Initial web page release for 2022	17 days ago
<code>assignments</code>	Initial web page release for 2022	17 days ago
<code>slides</code>	Extend Assignment 0-0 deadline	6 days ago
<code>404.md</code>	Initial web page release for 2022	17 days ago
<code>LICENSE</code>	Initial commit with LICENSE and README	17 days ago
<code>README.md</code>	Initial commit with LICENSE and README	17 days ago
<code>_config.yml</code>	Initial web page release for 2022	17 days ago
<code>assignments.md</code>	Initial web page release for 2022	17 days ago
<code>favicon.ico</code>	Initial web page release for 2022	17 days ago
<code>index.md</code>	Initial web page release for 2022	17 days ago

Repository Statistics:

- 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 x +

github.com/cs531-f22/cs531-f22.github.io/discussions/categories/announcements

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

category:Announcements

Categories

- View all
- Announcements**
- Assignment
- Ideas
- Polls
- Q&A
- Show and tell

Discussions

1

Introduce yourself

ibnesayeed announced 1 days ago in Announcements

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](#)....

calebkrad 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...

Label New discussion

2

https://github.com/cs531-f22/cs531-f22.github.io/discussions/1

Introduce yourself · Discussion x +

https://github.com/cs531-f22/cs531-f22.github.io/discussions/1

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

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

H B I \equiv <>     @  

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-f22/cs531-f22.github.io/>

Fork cs531-f22/cs531-f22.gith x +

github.com/cs531-f22/cs531-f22.github.io/fork

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.](#)

i 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

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:main

ibnesayeed Merge pull request cs531-f22#3 from darinmclain

_data	Darin McLain - Added li
_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-f22 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: ~  
+ x 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:~$
```

I

```
root@b3f3471a7ebf: ~  
+ x 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: ~
+ x 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
```

```
x
root@b3f3471a7ebf: ~
+ x 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
@@ -1,2 @@
  csid,name,ghid,repo
+salam,Sawood Alam,ibnesayeed,cs531-webserver
cs531@linux:~/cs531-f22.github.io$
```

```
root@b3f3471a7ebf: ~
+ x 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 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

ibnesayeed Add Sawood to members

This branch is 1 commit ahead of cs531-f22:main.
Open a pull request to contribute your changes upstream.
Open pull request

_data	Ad	4 minutes ago
_includes	Ad	17 days ago
_layouts	Ini	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
_assignments	Initial web page release for 2022	17 days ago

18 commits

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... x +

github.com/cs531-f22/cs531-f22.github.io/compare/main...ibnesayeed:cs531-f22.github.io:main?expand=1

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 H B I     @   

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