Starting soon!

React (pt. 4) & Git

JFSS CS Club 2022/23 Aritro



Data Fetching

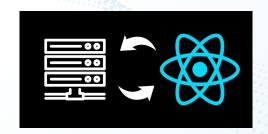
Data Fetching

- Allows us to get info from an API
 - Ex. products from database
- What is an API?
 - Application Programming Interface
 - Lets us talk to server / database, get specific info



Data Fetching

- Many libraries to fetch data
- Built-in method: Fetch API
 - Can use fetch() on any link, and get response



Fetch API Example

```
async function fetchData() {
  const res = await fetch("https://my.fake.website/interesting_data.json");
  const data = await res.json();
  return data;
}
```

Async/Await (quick)

- What does async/await mean?
- Async: short for asynchronous
 - Type of function
 - Allows to run time-consuming actions separately (ex. fetching data)
 - Can do other stuff while it fetches data (ex. render UI on screen)

Async/Await (quick)

- Await: wait for async function
 - Treat async function as synchronous
 - Shares benefits of async code, while looking clean
 - Helps us avoids this

Trying fetch()

API Link

https://frasercodes.vercel.app/fakeapi/products.json

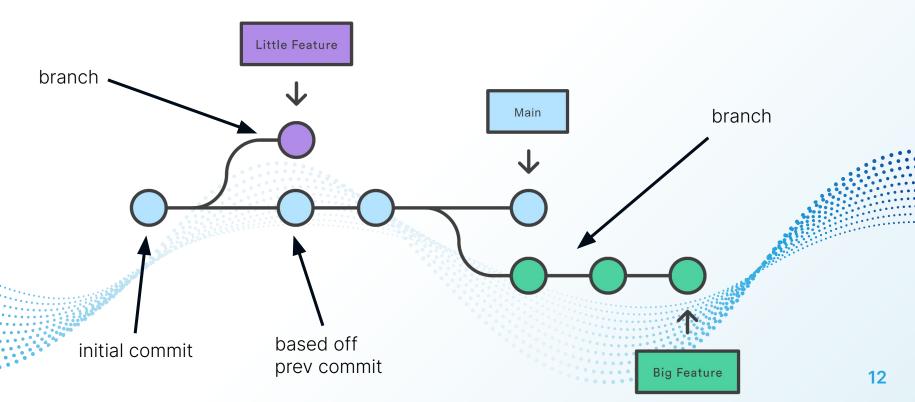
Git & GitHub

What is Git?

- Version control system (VCS)
- Allows us to track & manage changes in code
- Essential for collaboration
 - Track 5Ws for each change
 - Can work on different versions of code at once



Git Structure



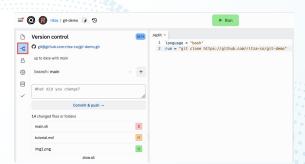
What is GitHub?

- Place to upload Git repositories
- Allows for easy collaboration
- Has many other features
 - Web hosting, continuous integration, etc.
- Different from Git
 - Git is the system, GitHub stores the data

Signing up for GitHub

Using Git - Repl.it

- Controllable through this icon in sidebar
 - Can run git commands w/o memorizing them
- Can also use shell (what we'll be doing)



Using Git - Local

- Install it! (if you don't have it)
 - Windows: https://git-scm.com/
 - o Mac:
 - xcode-install --install
 - brew install git (if you have brew)
 - Linux:
 - depends on your distro
 - try using default package manager

Using Git - Shell

- Important commands:
 - git init → initializes a repository
 - git add → prepare to add file(s)
 - git commit → create snapshot of added files
 - git push → upload to GitHub

Publishing our Projects to GitHub



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