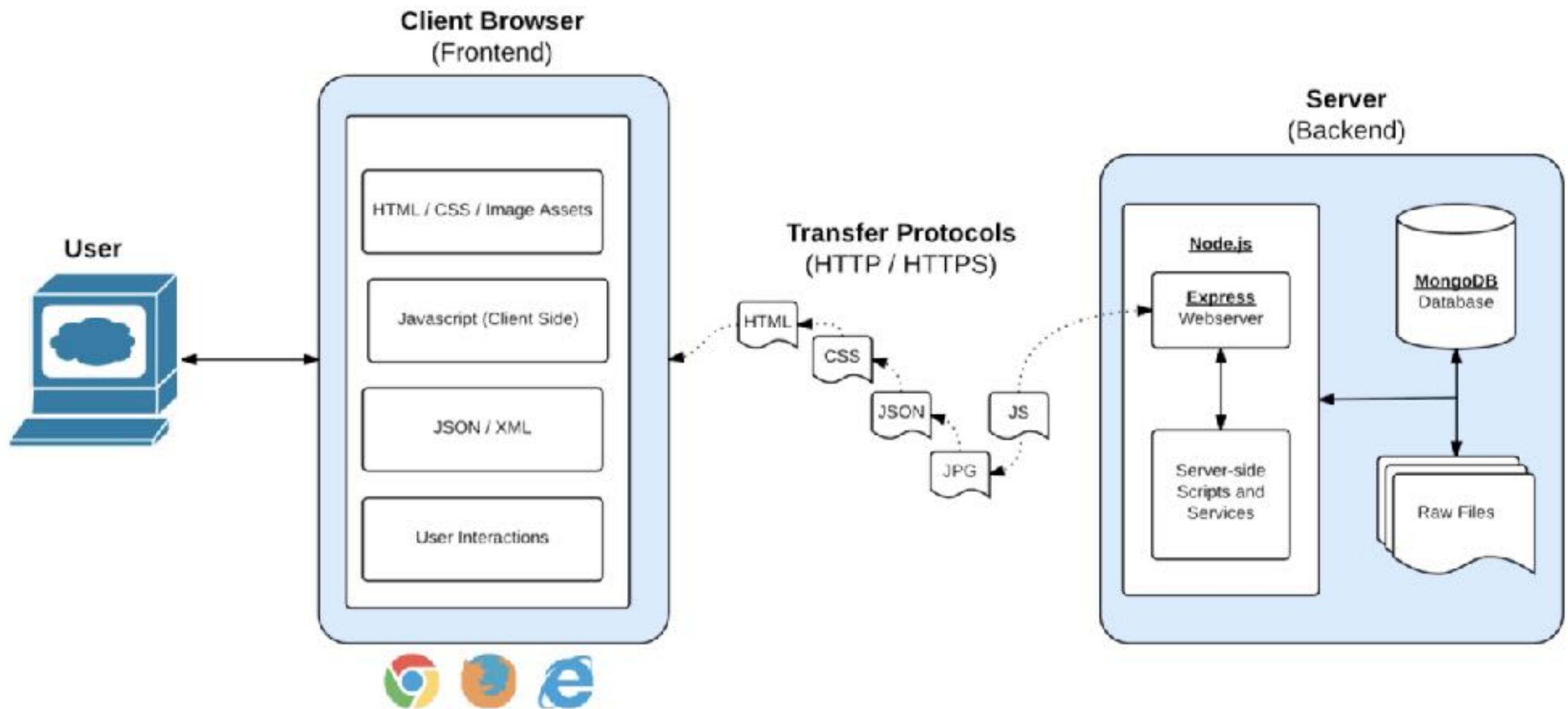


# UT FullStack Bootcamp

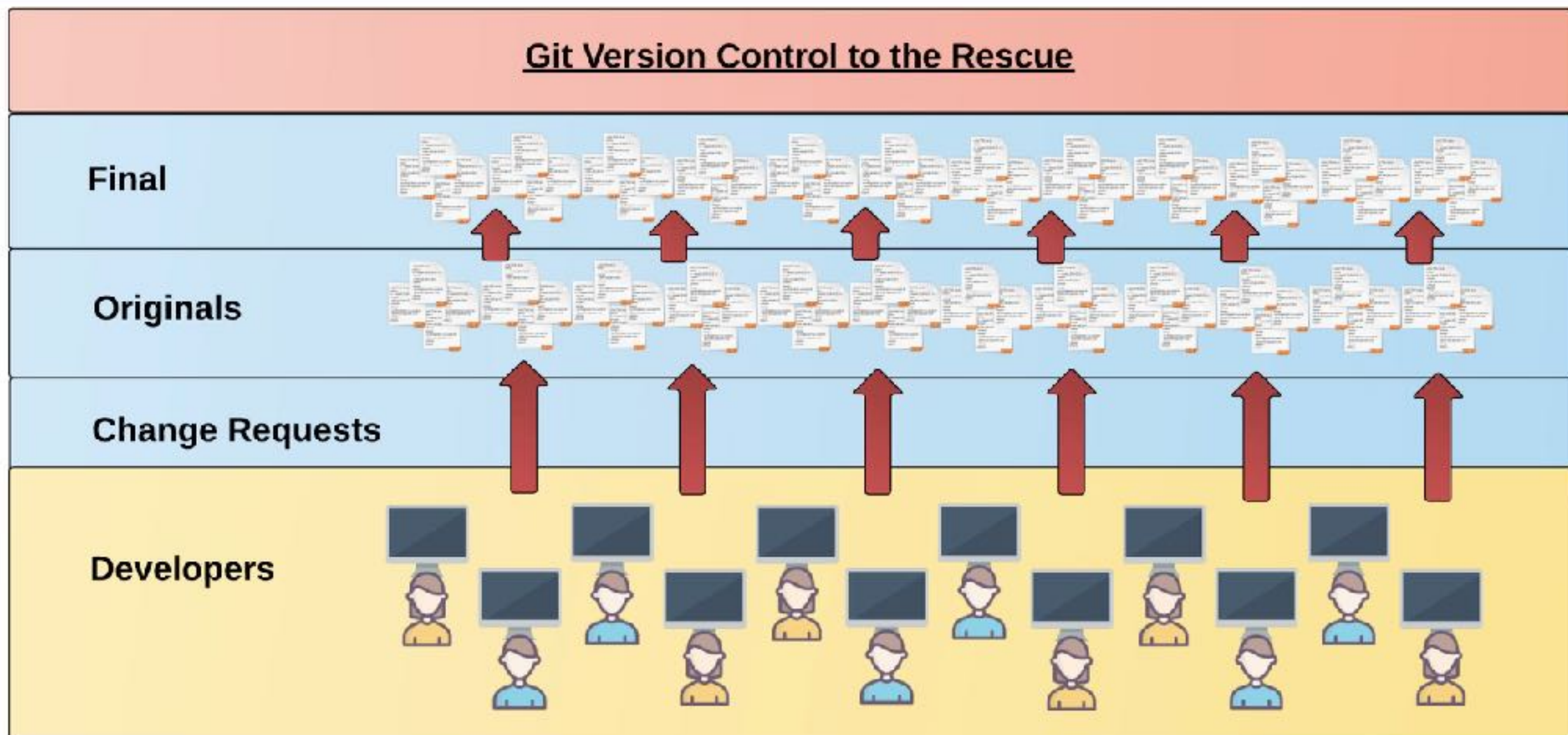
Week 1

# Full-Stack Development



In modern **web apps**, there's a constant back-and-forth communication between two key components: the visuals displayed on the user's browser (**frontend**) and the data and logic stored on the server (**backend**).

# Collaborative Coding



Modern web development is *highly* collaborative.

Teams are often extremely large and separated across the country — or planet.

Apps sometimes comprise hundreds or even thousands of files.

# Version Control

## **Git Version Control:**

- Provides an organized system for managing code for when multiple developers work on a project at the same time.

## **Benefits of Git:**

- Provides an organized system for managing code for when multiple developers work on a project at the same time.

# Git Commands

Create a new public GitHub repository. Check the box to initialize with ReadMe.

- **git clone:** copies an entire repo (to begin).
- **git add:** adds a file for inclusion in Git.
- **git commit:** notes a change to the local repo.
- **git push:** sends changes to hosting service.
- **git pull:** downloads freshest version of repo.

<https://www.codeschool.com/courses/try-git>

# Git Commands syntax..

- **git status:** on branch master
- **git add:** git add index.html
- **git commit:** git commit -m “made some change”
- **git push:** git push origin master

# Intro to Console

- ls: list
- pwd: Print working directory
- ls -A :
- mkdir: make directory (example mkdir example)
- cd: change directory

# Terminal Commands

These are the basic commands for navigating directories in a Terminal or Git Bash window

## Moving in directories

### Change Directory

```
cd
```

### Change to Root Directory

```
cd ~
```

### Move to One Directory Up

```
cd ..
```

### View Folders and Files in the Directory

```
ls
```

### Show the current Directory

```
pwd
```

### Autocomplete a File Name in the Current Directory

Press `tab` key once to autocomplete once you have typed a unique portion of a file name.

### Open file or folder (Mac only)

```
open [name of file]
```

### Open all files and folder in current directory (Mac only)

```
open .
```

## File Manipulations

### Make New File

```
touch [name of file to create]
```

### Make New Folder

```
mkdir [name of directory to create]
```

### Delete file

```
rm [name of file to remove]
```

### Delete folder

```
rm -r [name of directory to remove]
```

### Copying File

```
cp [filename1] [filename2]
```

### Move/Rename File

```
mv [filename1] [filename2]
```

## Mac Only

### Open file or folder (Mac only)

```
open [name of file]
```

### Open all files and folder in current directory (Mac only)

```
open .
```

<https://github.com/the-Coding-Boot-Camp-at-UT/UTAUS201807FSF2-FT/blob/master/class-content/01-html-git-css/01-Activities/01-ConsoleCommands/bash-terminal-commands-cheatshet.md>