Welcome to the
George Washington Coding Bootcamp

Wifi Name: Internet_Here
   Password: Connect!
Mark Attendance:
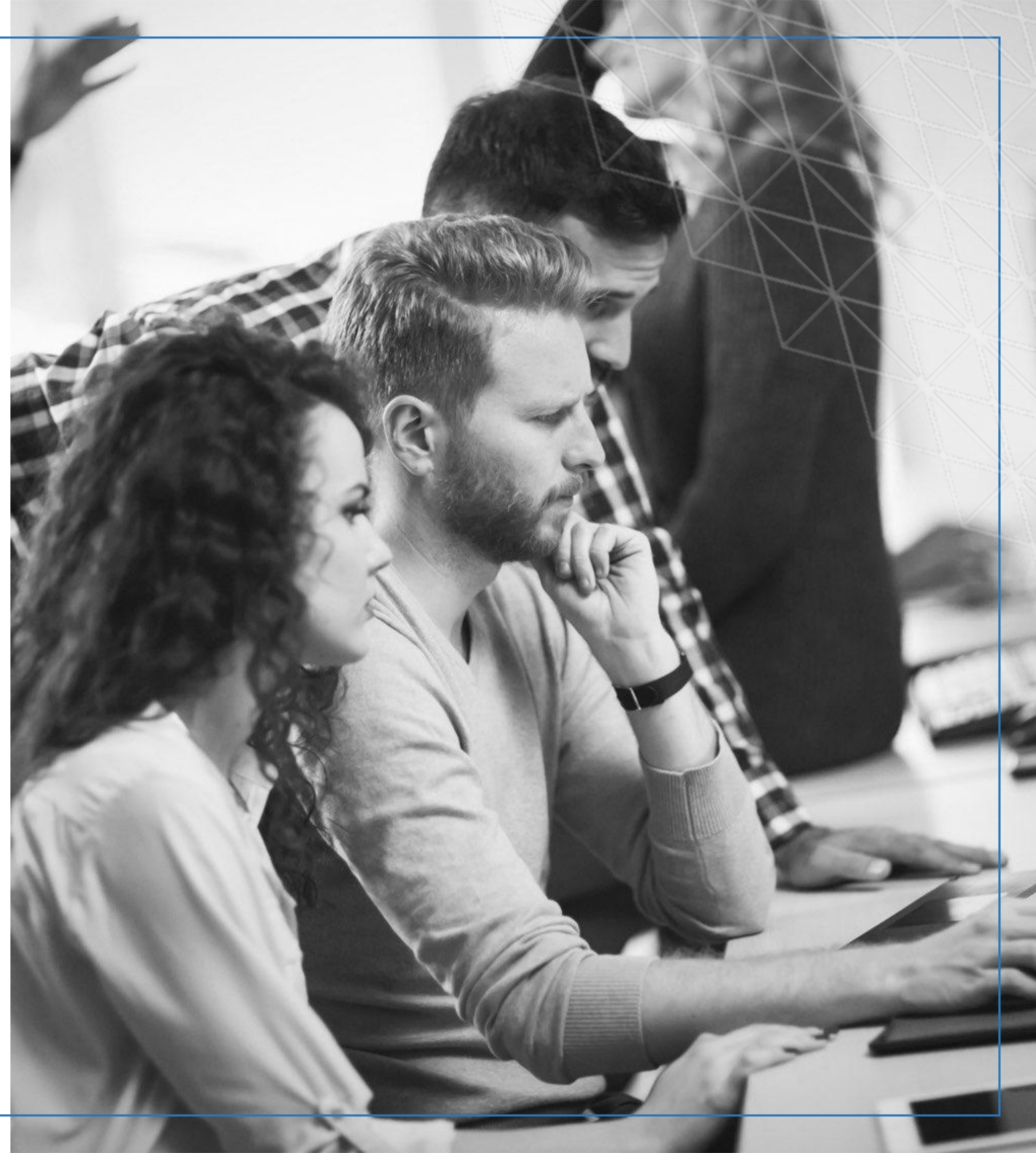   bootcampspot-v2.com
Accept Invite:
   github.com/CodingBootcamp
Open:
   Slack Desktop App & Add Photo!

Play Bingo!

By the end of this session, you will:

- ☐ Come to know your classmates as the community that you will rely on for collaborative learning.

- ☐ Know the staff who will be providing holistic support throughout the program.

- ☐ Understand the minimum requirements in order to successfully graduate from this boot camp.

- ☐ Be able to list ways to get help and support at your moments of need.

Sasha Slacum
Student Success Manager

My goal is to help you successfully complete the program

I like the outdoors and my puppy Pippa.

You can reach me at
sslacum@bootcampspot.com

Cyrus Homayoupour
Associate Dean, George Washington

Your turn!

In 30 seconds or less, share your

Name

Location (Live and Commuting from)

Background (Career, Education, Interests)

What is it about this class that excites you?

What is your proudest achievement?

Shadi Bashir
Teaching Assistant, Mon/Wed

- BSc in Biology

- BA in IR and Economics

- Two years of professional coding experience

- Interested in Full Stack , AI , and ML

Trey Eckels
Instructor

Developing for more than 16 years

Love my cat, Eve

Software Engineer for Perfect Sense, previously
Software Engineer contractor for Google and
Software Enginner for LinkedIn

YOUR
CAREER SERVICES
TEAM

PROFILE
COACHES

CAREER
COACH

YOU

SUPPORT STRATEGIES

You are responsible for your **success**, but you're not alone!

You

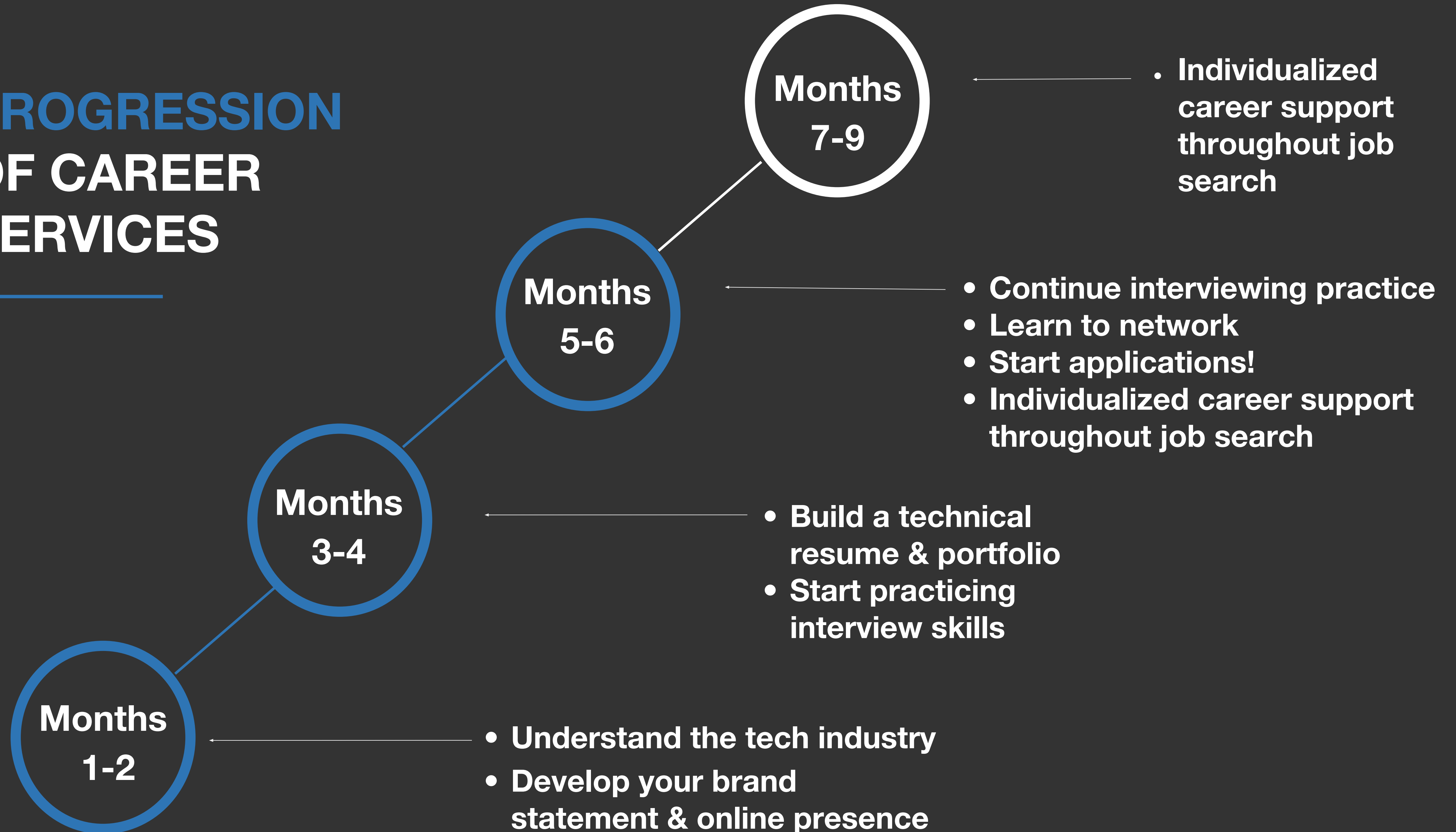Live Chat on Bootcampspot

Schedule a Check-in with your SSM

Attend Office Hours

Form Study Groups

Activity: Landing Zones

1. Choose one day of the week when your class is NOT held.

2. Break into groups by chosen day.

3. As a group, decide on a meeting time and place for your study group on that specific day of the week.

4. Share with the class. Post in your Slack and pin.

5. If time allows, confirm each person as a solid study plan in place to be successful in class.

PROGRESSION OF CAREER SERVICES

Months 7-9

- Individualized career support throughout job search

Months 5-6

- Continue interviewing practice
- Learn to network
- Start applications!
- Individualized career support throughout job search

Months 3-4

- Build a technical resume & portfolio
- Start practicing interview skills

Months 1-2

- Understand the tech industry
- Develop your brand statement & online presence

Minimum Graduation Requirements:

☐ Miss no more than 4 classes

☐ Have no more than 2 incomplete homeworks

☐ Hold at least a 70% average on homeworks

☐ Hold at least a 70% average on group projects

☐ Participate in all projects

COURSE TIMELINE

HTML
CSS
JavaScript
Node/Express
Mongo

Project 1

Modularity
External APIs
Socket. io
Testing

Project 2

React
Also React
More React
Computer Sci.

Project 3

Project 1:

Group Project
Full-stack (MEN)
External Library

Project 2:

Group Project
Real-time DB
External API/Library

Project 3:

Group or Individual
Project
React (MERN)
External API/Library
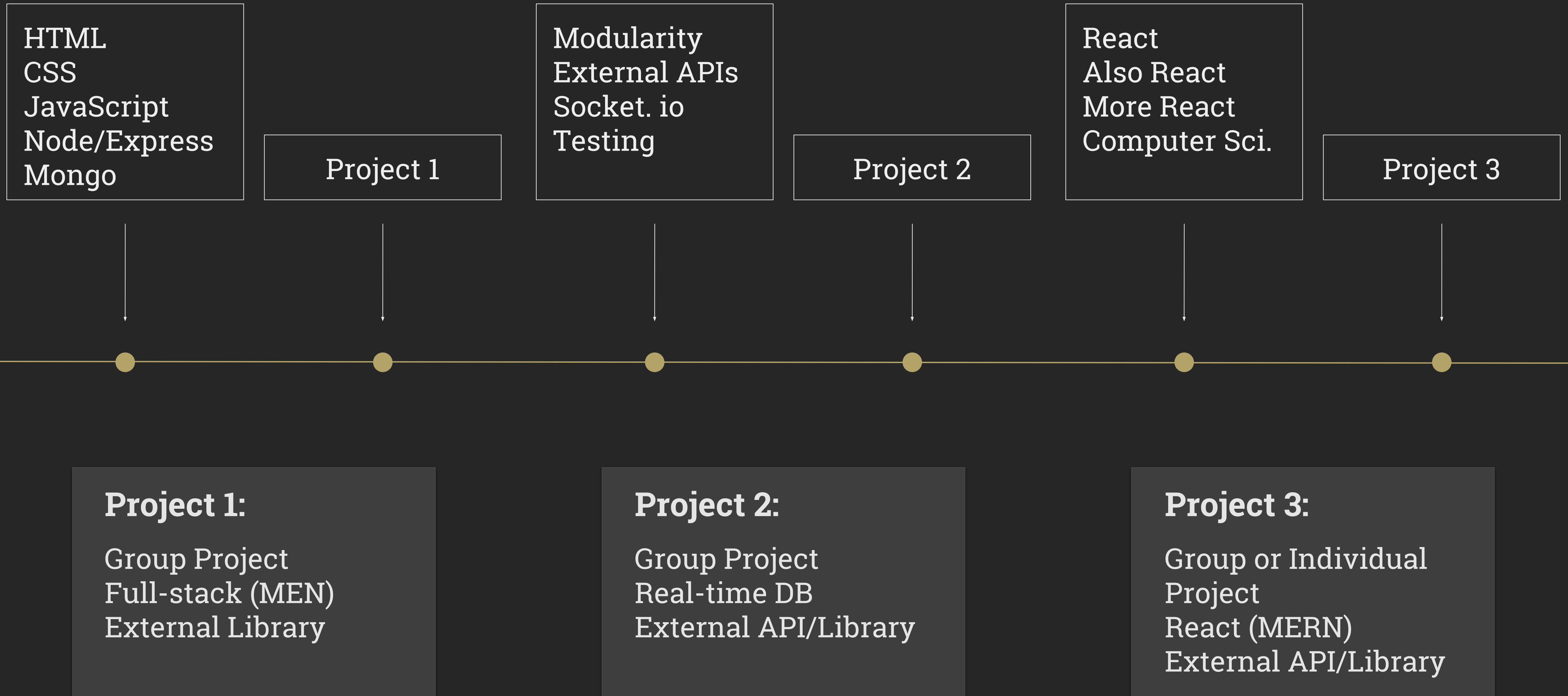
Session Objectives Completed:

☑ Come to know your classmates as the community that you will rely on for collaborative learning.

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Pre-Work

Software Checklist

At this point, you should have each of these installed:

- ❏   Slack
- ❏   Visual Studio Code
- ❏   Git for Version Control
- ❏   Git Bash (Windows) or Terminal (Mac)
- ❏   Node.js
- ❏   Heroku-CLI
- ❏ Google Chrome

Accounts Checklist

You should also now have accounts for:

- ❑ GitHub (with SSH Integration)

- ❑ Heroku

- ❑ LinkedIn

- ❑ Stack Overflow

Self-Check

Let's do some quick checks of the following

✓ Visual Studio Code Check

✓ Git Bash / Terminal Check

✓ Node Check

✓ Git Check

✓ Heroku Check

On the Modern Web

The "Magic" of YouTube
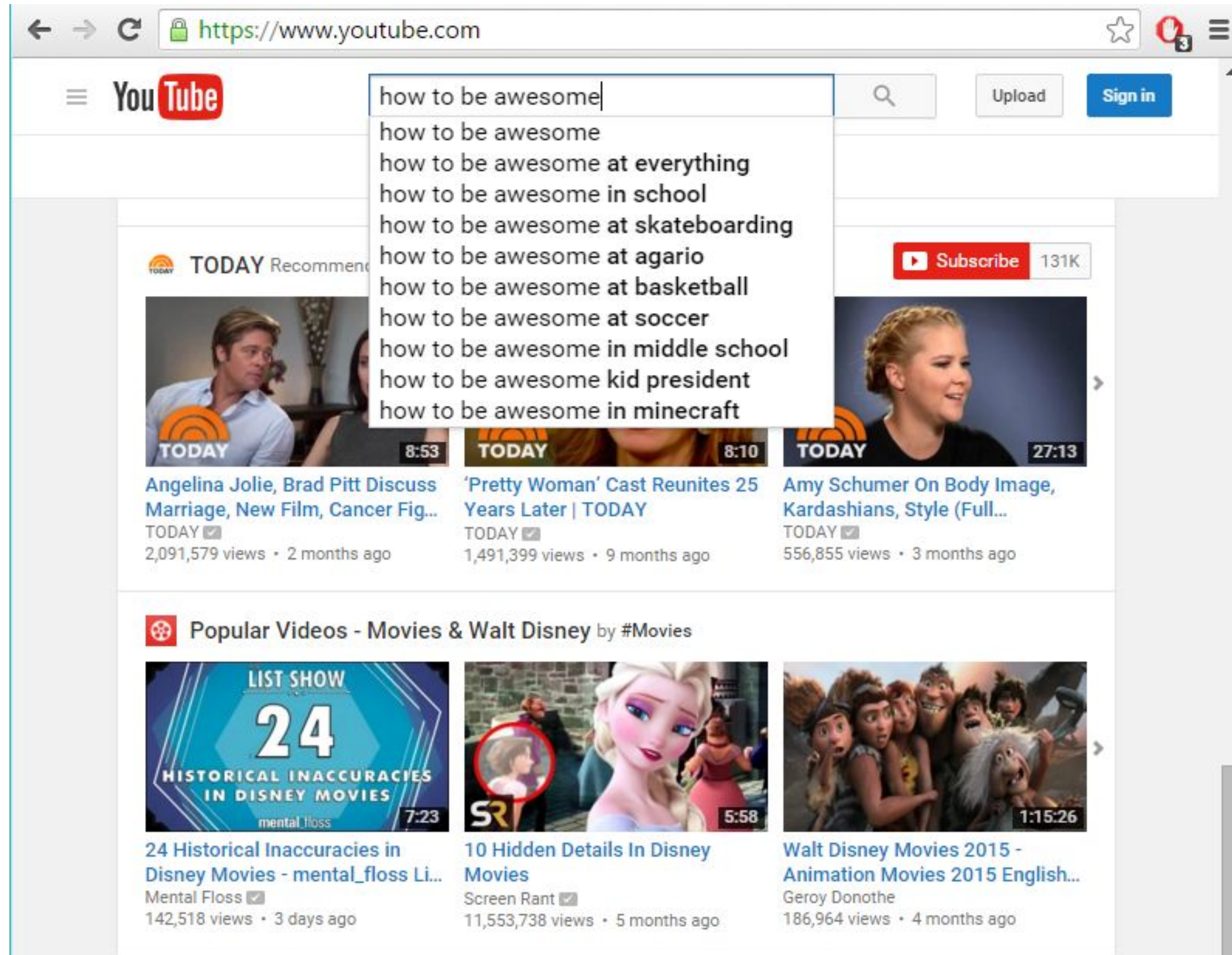
Full-Stack Development
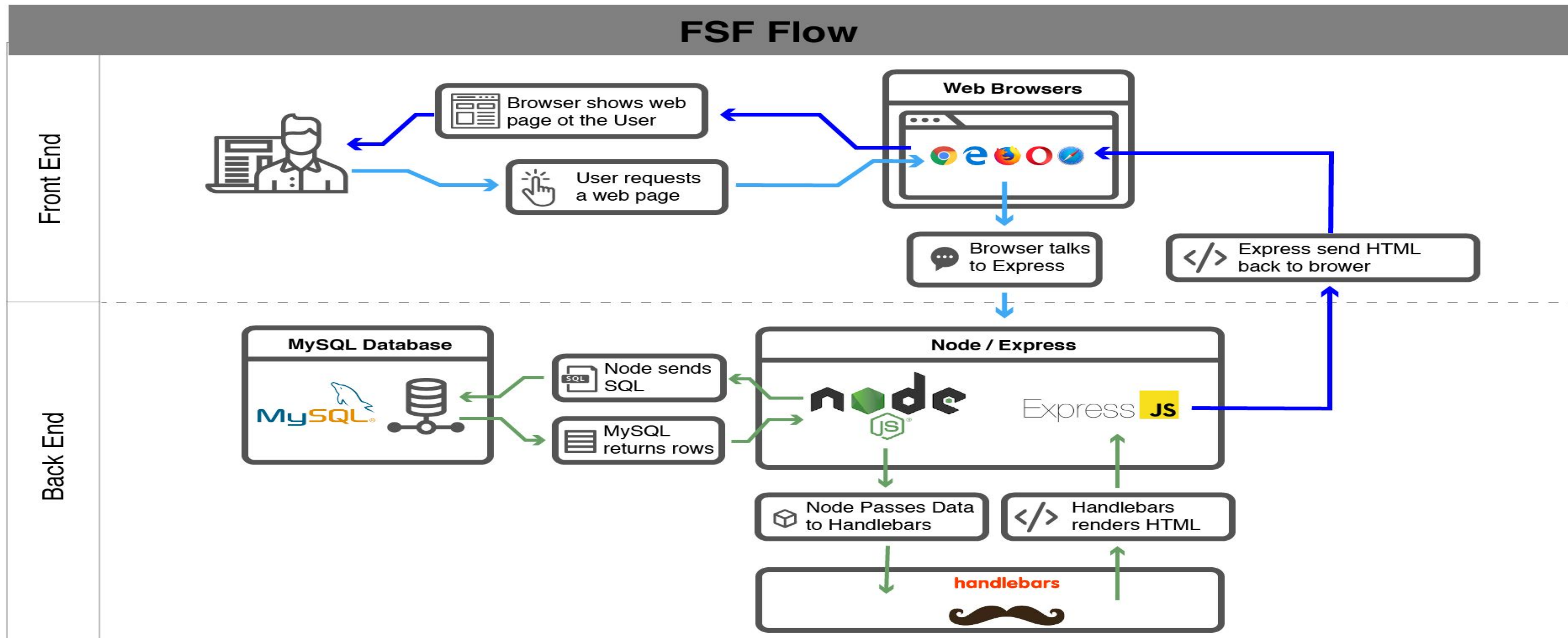
In modern **web apps,** there's a constant back-and-forth communication between two key components: the visuals displayed on the user's browser (**frontend)** and the

Full-Stack Development
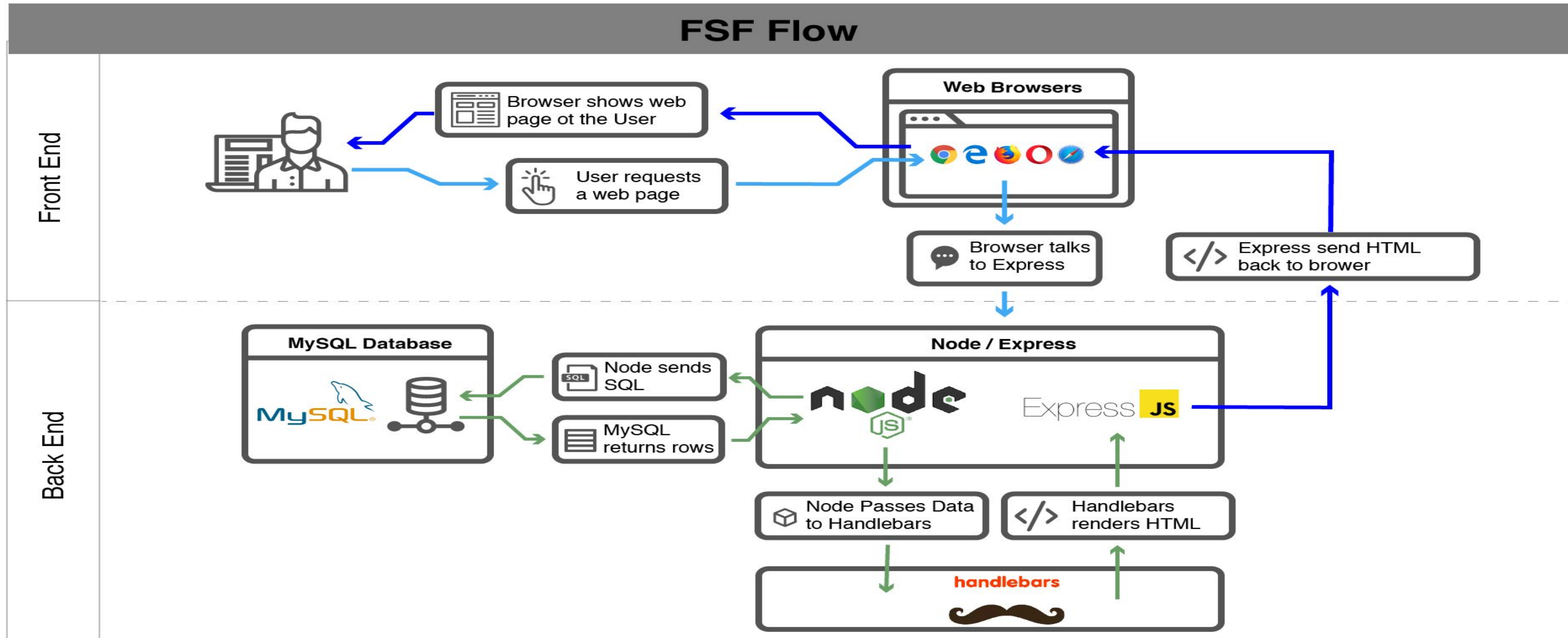
Full-Stack Development is the concept of building *every* aspect of the web application – from the visuals and interactions, to the data transfer and processing.

Full-Stack Development

The Browser

- HTML
- CSS
- JavaScript
- jQuery
- Bootstrap
- SEO

API Interaction

- APIs (Consuming)
- JSON
- AJAX
- Real Time Cloud Database via Firebase

Cutting Edge Development

- React.js

Dev Tools

- Heroku
- Git
- GitHub

Databases

- MySQL
- MongoDB

Server Side

- Templating Engines
- Sessions
- Writing tests
- Node.js
- Express.js
- Creating APIs
- MVC
- User Authentication
- ORM (Sequelize)

CS Fundamentals

- Algorithms
- Design Patterns

Let's Get Crackin'

Intro to Console / Terminal

Instructor: Demo
(1-ConsoleCommands)

Assignment:

- Make a folder on your desktop named code.

- Put all of your code that you do inside of that folder.

Best Practices:

- Always use lowercase for folder and file names.

- Never put in spaces in your folder and file names.

- Use dashes to separate.

Assignment:

From the Terminal / Console and using only the command line, create:
- A new folder with the name of first_day_stuff.
- A new HTML file with the name of first_day.html.
- Open the current folder containing the new HTML file.

Bonus:
- Create multiple directories/folders with the names one_folder and second_folder in one command.

- Create multiple files with the names one.html and two.html in one command in the first_day_stuff directory.

Discuss with Neighbors

Hello, HTML

<title> Intro to HTML </title>

- **HTML** is one of the three base languages behind <u>every single website</u>.
- It defines all of the basic content and a *bit* of formatting.
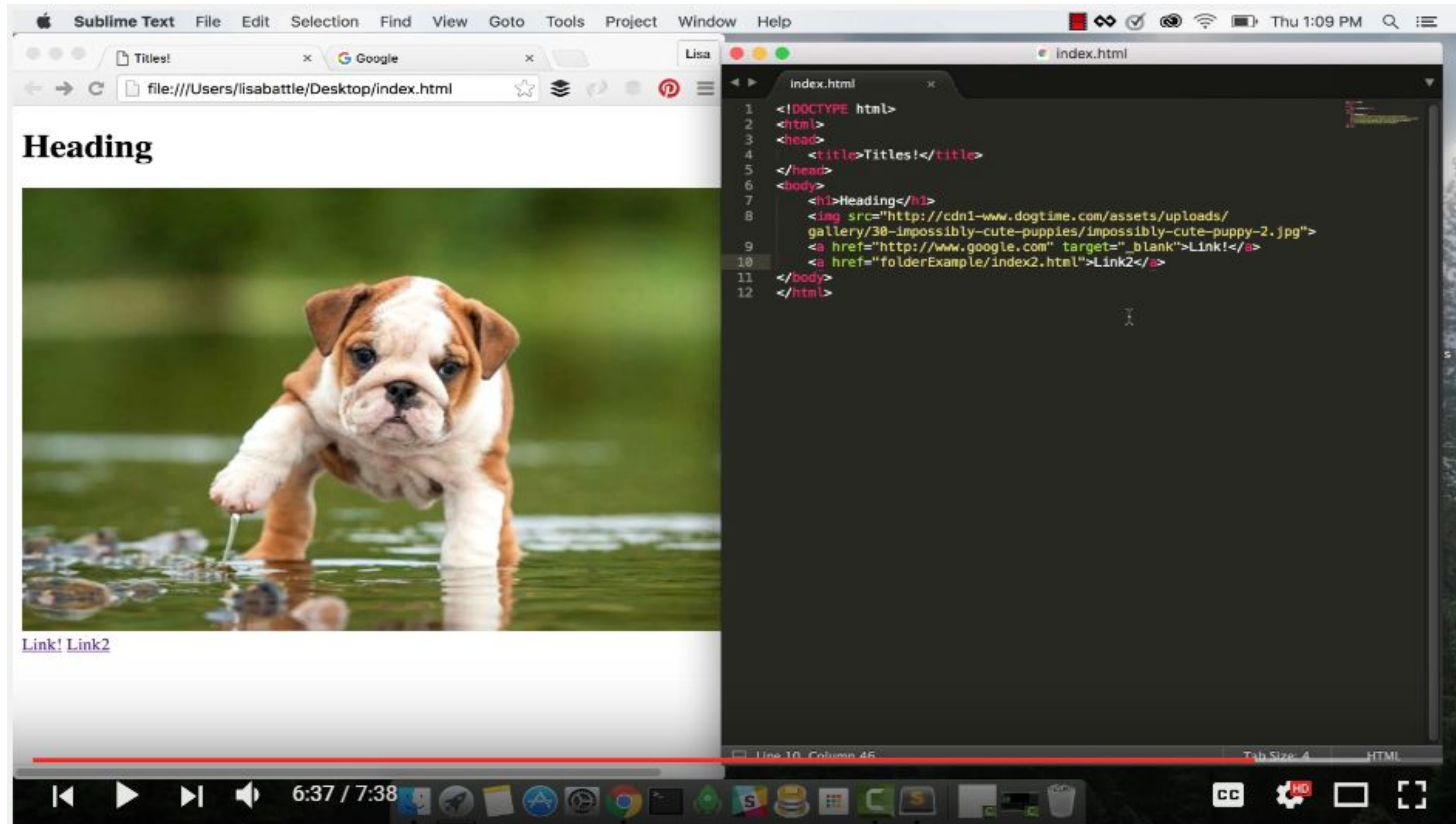
> YOUR TURN

Assignment:

In a new HTML file, create the basic structure of an HTML document and include the following in it:

- DOCTYPE declaration.
- Head tag with a title tag.
- H1 tag with a title of your choice.
- Embed an image.
- Create the following three links on your page:
  - One link that has target="_blank" which opens a new tab when clicked
  - Make the second link bold.
  - Make the third link a placeholder so it goes nowhere.

Bonus:

- Create an ordered list of steps to make a sandwich.
- Create an unordered list of 5 bands/musicians you like.
- Create a table with 2 columns (animal class and animal name) and 4 rows of animals.
- Use an alternate way of separating links without line breaks.
- Embed a YouTube video of your favorite band/musician.

YouTube Video Walkthrough!

https://www.youtube.com/watch?v=ieb6Svbc10E&index=1&list=PLgJ8UgkiorCnMLsUevoQRxH8t9bt7ne14

How'd it go?

Homework

Homework "Due": Next Class

By Next Class:

- Figure out where the GitHub Repo is for our class.

- Re-do the Terminal example from class today.

- Re-do the HTML example from class today.

    - Watch the Walkthrough Video if you felt a bit lost.