

# The Zen of Coding

Web Development Boot Camp  
Lesson 1.1



# The Path of Learning

# Your Goals

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Basically, 100% of you said **new career**.



# Your Goals

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And why do you want a new career?



To pursue a **dream**



To escape a **dead-end job**



To be able to **create**



To follow a **fascination**



To attain **financial stability**



To obtain **financial freedom**



To **challenge yourself**



To be a **role model** to kids



## **Your Goal = Our Goal**

As instructors, we take your goals very, very seriously.

# Support Team Promise

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If you're willing to put in the time and take our advice, we're here to help you 100% of the way.

This goes for everyone working on this program:

- Instructors
- TAs
- Student Success Team
- Career coaches
- Everyone else!





**But Remember:**

Nothing good comes easily.

# Our Keys to Success



# Don't Be This Person:

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This Should Be You



# **Our Mantra for Today and Beyond**

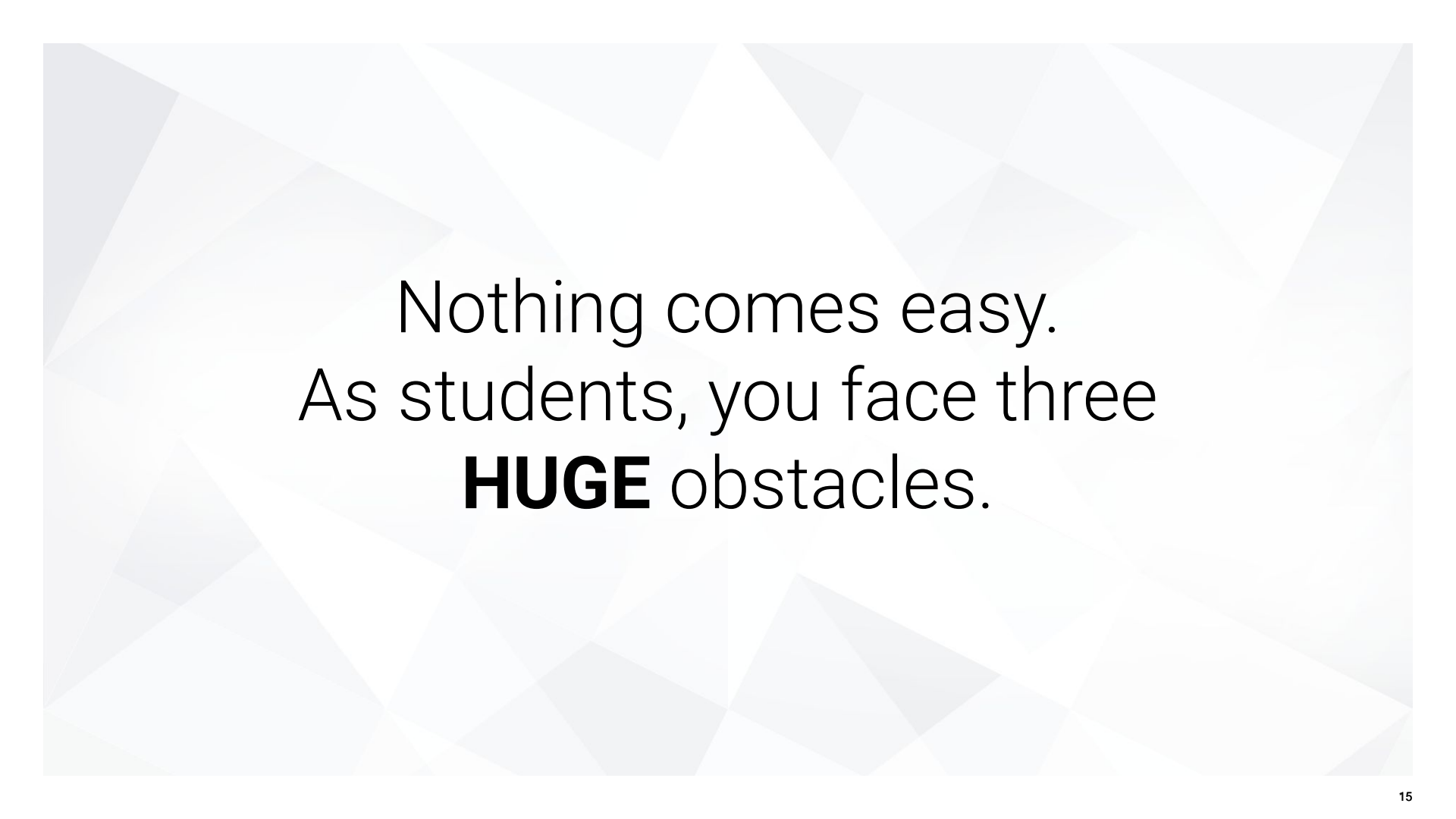
When it comes to web development...



**I know nothing.**

↖  
You.

# The Path of Learning



Nothing comes easy.  
As students, you face three  
**HUGE** obstacles.



# Obstacle #1: The Great Confusion

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**My code doesn't work and I don't know why.**

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**My code works and I don't know why.**





## Obstacle #2: The Great Doubt

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“Maybe I’m just dumb.”



# Obstacle #3: The Great Distance

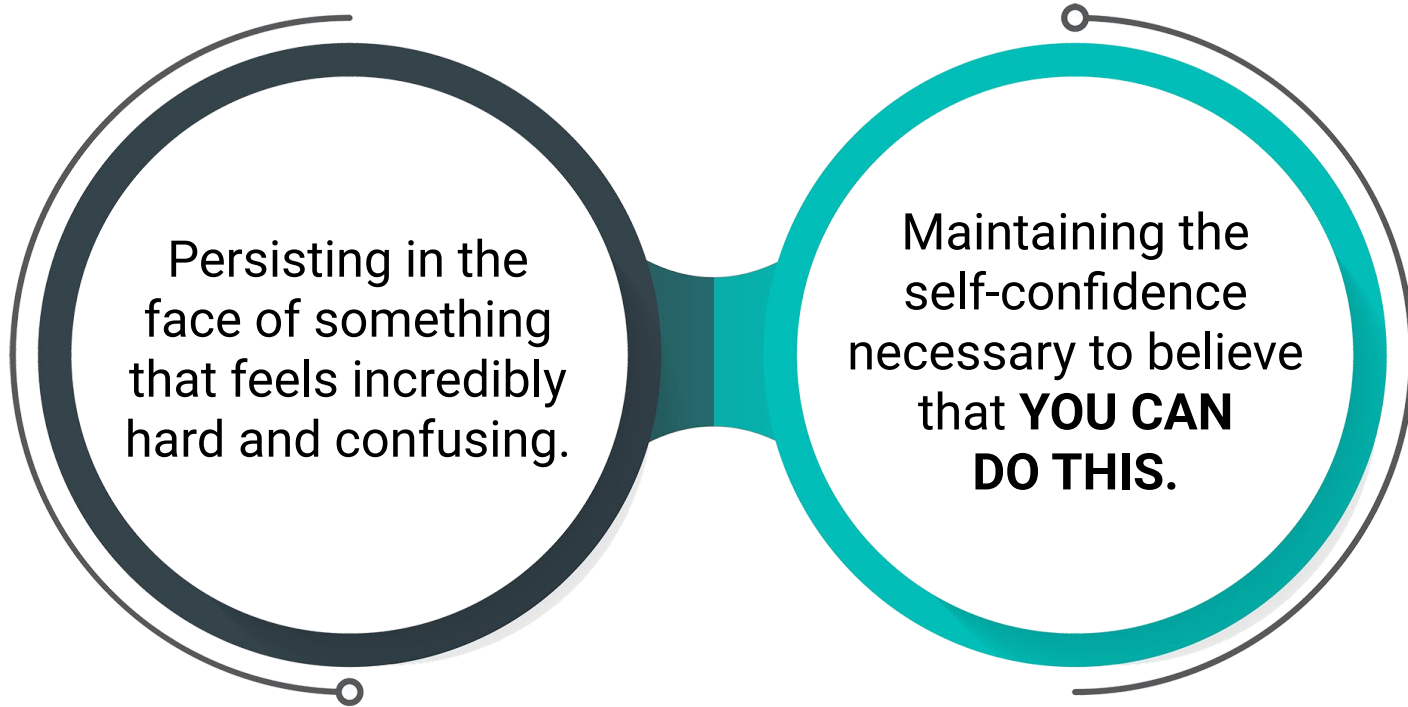
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# Nothing Comes Easy

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Learning to code requires two things:



# Learning Can Be Frustrating

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You can't tell whether you're learning something when you're learning it—in fact, *learning feels a lot more like frustration*.

What I've learned is that during this period of frustration is actually when people improve the most, and their improvements are usually obvious to an outsider. If you feel frustrated while trying to understand new concepts, try to remember that it might not feel like it, but you're probably rapidly expanding your knowledge.



—Jeff Dickey, author of *Write Modern Web Apps with the MEAN Stack: Mongo, Express, AngularJS, and Node.JS* (Peachpit Press, 2014)

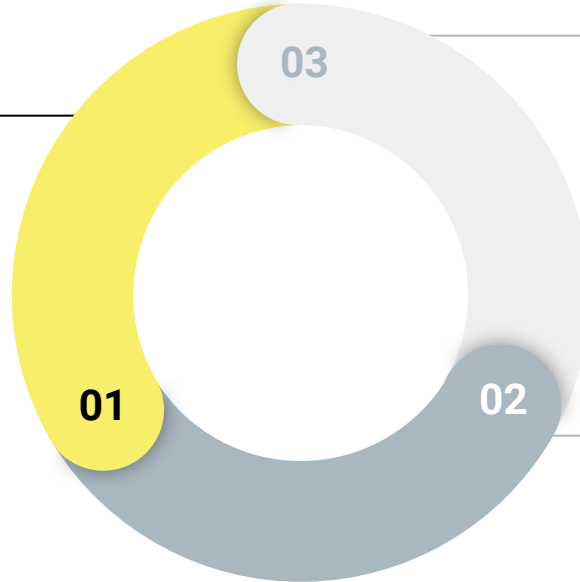
# Advice for the Journey

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Throughout this course, always remember to:

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Work hard!



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Trust yourself

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Celebrate your  
successes

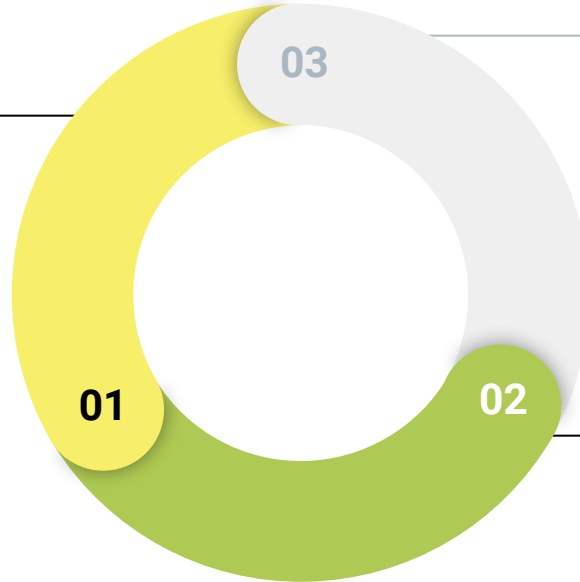
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# And Remember...

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If you want to go fast, go alone. If you want to go far, go with a team.





# Google Fu: The Most Important Skill of All

[What Is Google Fu?](#)



# Course Structure

# Daily Schedule

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In each class, we'll cover the following:

01

Set objectives

02

Brief background lecture

03

Watch me / coding demos

04

Code discussions

05

In-class exercises

06

Project work

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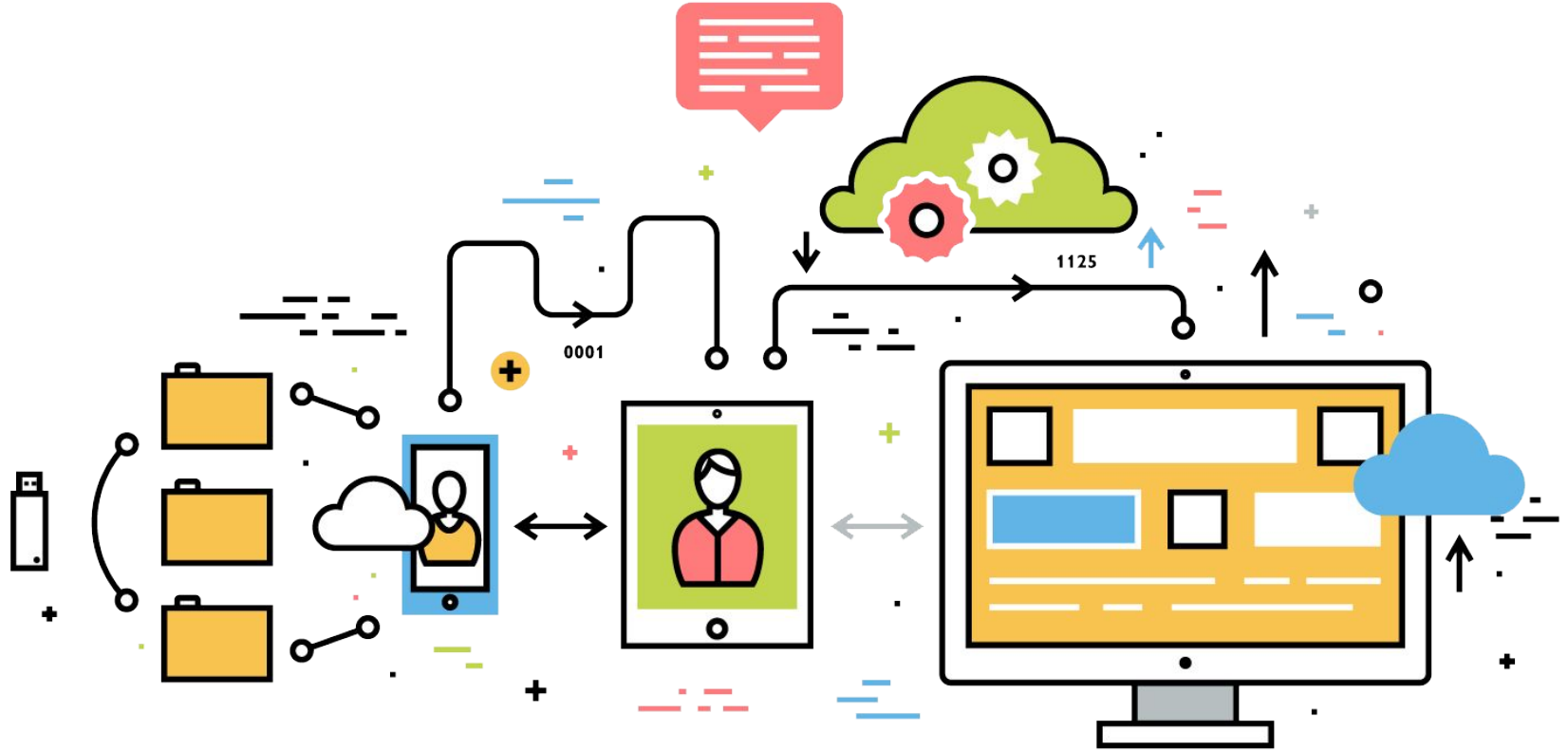
Project work



This is the super important stuff—ALWAYS BE CODING!

# The Modern Web

# What Exactly Is Full-Stack Development?



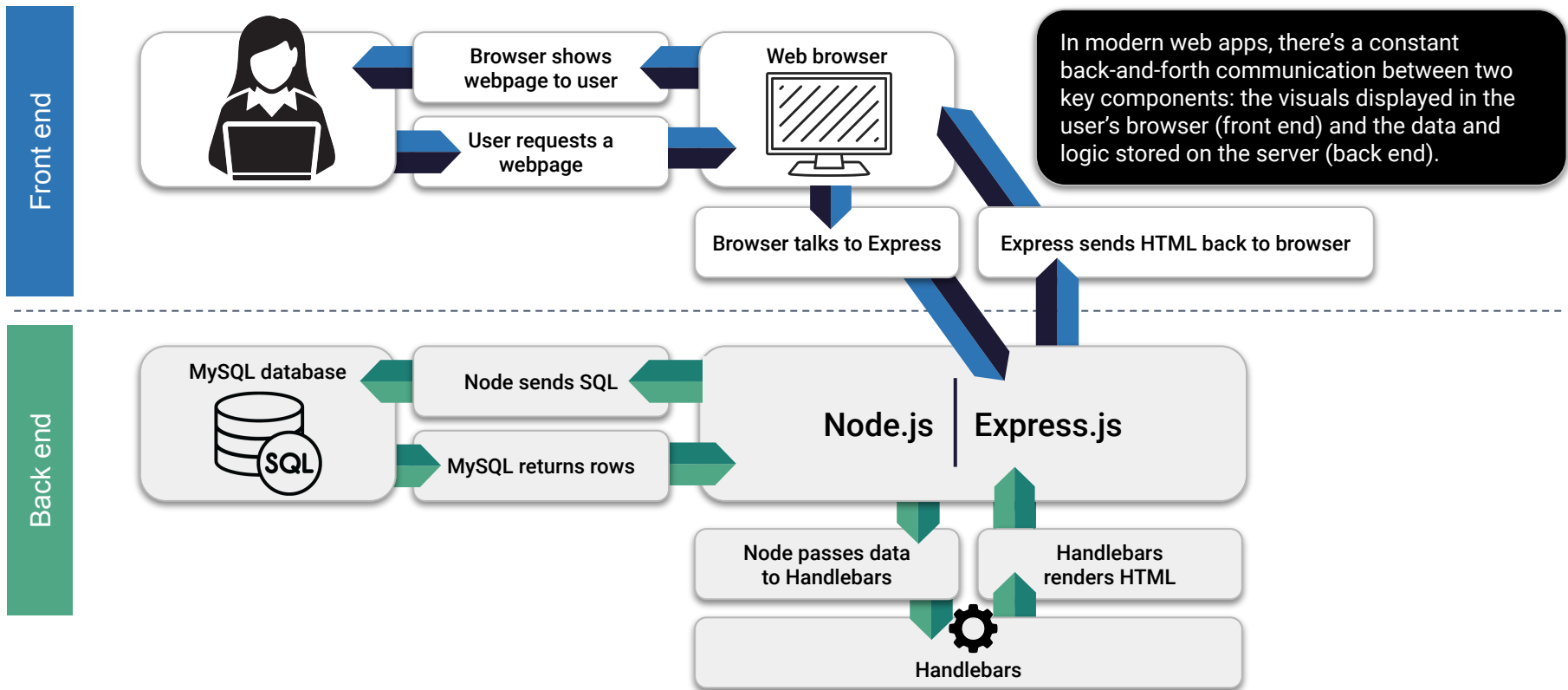
# The “Magic” of YouTube





# Full-Stack Development

## FSF FLOW

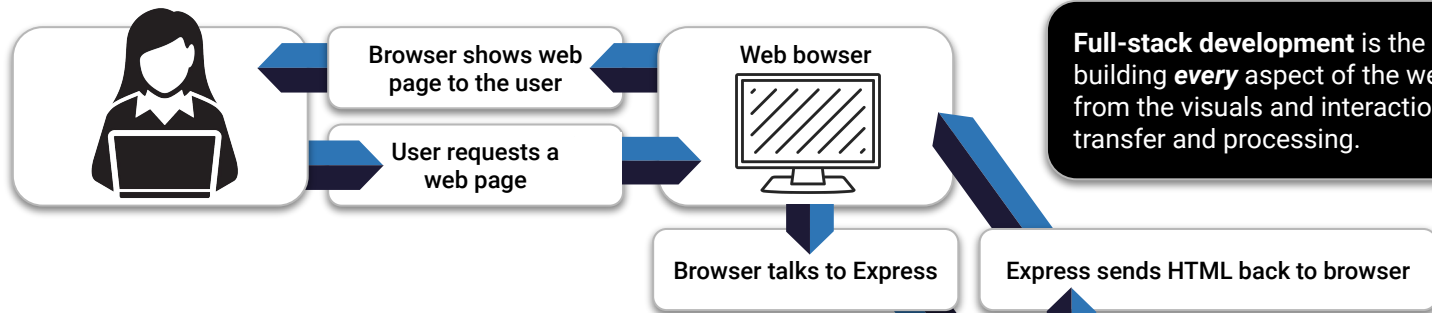




# Full-Stack Development

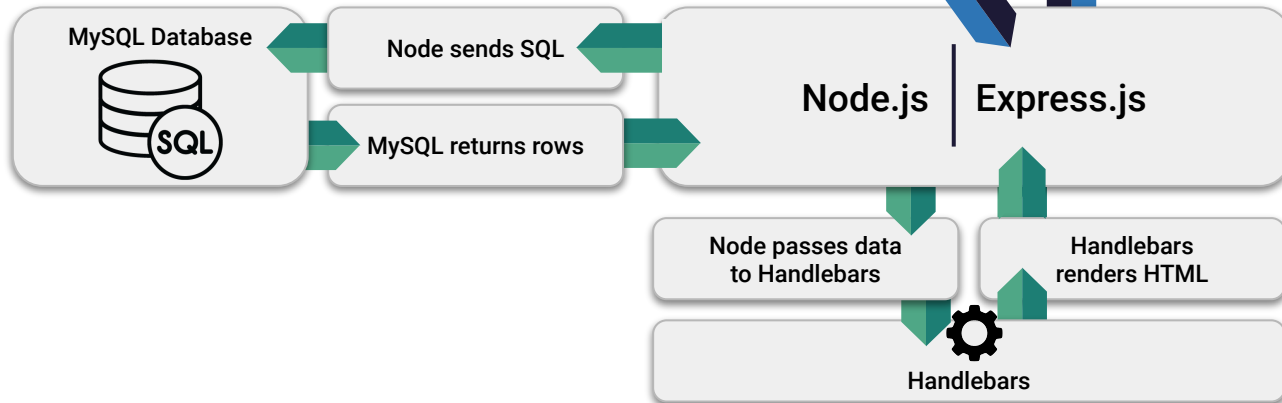
## FSF FLOW

Frontend



**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.

Backend



# Full-Stack Development

| The Browser                  | Dev Tools | Server Side         |
|------------------------------|-----------|---------------------|
| HTML                         | Heroku    | Templating engines  |
| CSS                          | Git       | Sessions            |
| JavaScript                   | GitHub    | Writing tests       |
| jQuery                       | Databases | Node.js             |
| Bootstrap                    | MySQL     | Express.js          |
| SEO                          | MongoDB   | Creating APIs       |
| API Interaction              |           | MVC                 |
| APIs (Consuming)             |           | User authentication |
| JSON                         |           | ORM (Sequelize)     |
| AJAX                         |           | CS Fundamentals     |
| Cutting-Edge Development     |           | Design patterns     |
| Progressive Web Applications |           |                     |
| React.js                     |           |                     |