



# Look at all you have learned!

The Browser	Dev Tools	Server Side
• HTML	Heroku	Templating Engines
• CSS	• Git	Sessions
<ul><li>JavaScript</li></ul>	GitHub	<ul> <li>Writing tests</li> </ul>
<ul><li>jQuery</li></ul>		Node.js
<ul> <li>Bootstrap</li> </ul>		Express.js
		Creating APIs
API Interaction	Databases	<ul><li>MVC</li><li>User Authentication</li></ul>
• APIs	MySQL	ORM (Sequelize)
• JSON	MongoDB	o oran (dequenze)
• AJAX	3	
Real Time Cloud Database via		
Firebase		
Cutting Edge Development		CS Fundamentals
<ul><li>React.js</li></ul>		• Algorithms
		<ul> <li>Data Structures</li> </ul>

#### Your Goals Re-examined

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

#### What's Left

01

**Final Projects** 

02

Remaining Topics: Computer Science Algorithms, Javascript Design Patterns

# **Never Stop Learning!**

01

The key to hireability and relevance is to constantly be learning.

02

The field is always changing and there is never a point where you can call it quits.

03

Stick with it! It's a craft that you continue to hone with time.



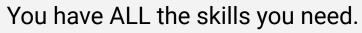


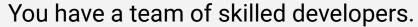
**Your Challenge** 

# Your Challenge



You have plenty of time to work on this.







No excuses. Time to prove yourself.



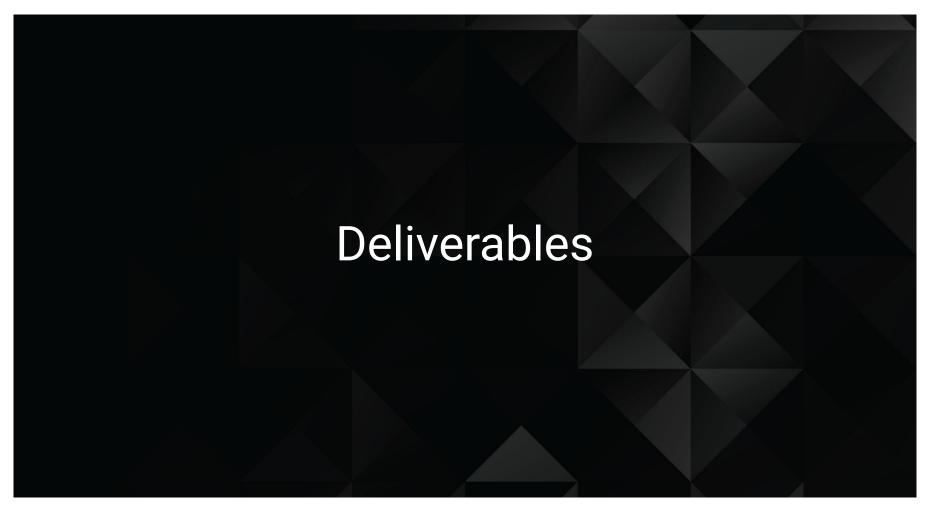
## **Expectations**

- We expect whatever you build to have utility.
- 2. We expect you to have market or real-world research that evidences your idea has REAL value to people.
- 3. We expect you to have done research on other web/mobile applications in your domain.
- 4. We expect you to put serious time and thought into this.
- 5. We expect you to report problems you are facing along the way.
- 6. We expect you to utilize some form of project management system.
- 7. We expect you to dig deep into documentation and external resources to learn what you need.

# Requirements

## **Coding Requirements**

- Must use ReactJS in some way (even if minimal)
- Must use a Node and Express Web Server
- Must be backed by a MySQL or MongoDB Database with a Sequelize or Mongoose ORM
- Must have both GET and POST routes for retrieving and adding new data
- Must be deployed using Heroku (with Data)
- Must utilize at least two libraries, packages, or technologies that we haven't discussed
- Must allow for or involve the authentication of users in some way
- Must have a polished frontend/UI
- Must have folder structure that meets MVC Paradigm
- Must meet good quality coding standards (indentation, scoping, naming)
- Must not expose sensitive API key information on the server



#### **Deliverables**

Instead of homework, you will be required to submit four Project Deliverables.

01

Plan, Design, and Research

02

Ready MVP (Working App!), Mini-Presentation



Project Polish, Functionality Push, Final Plan



**Presentation Time!** 

# **Deliverables 1:**Plan, Design, and Research

# Deliverables 1: Plan, Design, and Research

#### In this plan, you will include:



An overview of the intended application and WHY you feel it's valuable.

02

A set of DETAILED screen-by-screen design layouts with annotations describing all UI/UX components and all data relevant to the screen.

03

A breakdown of roles by group member.

 $\left(04\right)$ 

A schedule for completion of various tasks.

 $\left[05\right]$ 

A screenshot of your Project Management Board that shows breakdown of tasks, assigned to group members with a schedule.

# **Example UI/UX Flow**

#### Screen Map

This is intended to show you the order in which users would see screens. The three branches correlate with the three button options from the main menu.



# **Example Data Flow**

#### User View—Clinical Trial App

