Final Projects

We are almost there...

Look at all you have learned!

The Browser
- HTML
- CSS
- JavaScript
- jQuery
- Bootstrap

Dev Tools
- Heroku
- Git
- GitHub

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

API Interaction
- APIs
- JSON
- AJAX

Databases
- MySQL
- MongoDB

Cutting Edge Development
- React.js

CS Fundamentals
- Algorithms
- Data Structures

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

03 Lightning Talks

04 Job Workshops

05 Demo Day!

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.

Final Projects

Your Challenge

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You have plenty of time to work on this.

You have ALL the skills you need.

You have a team of skilled developers.

You have experts willing to help.

No excuses. Time to prove yourself.

Expectations

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1. 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

- Must use a ==Node and Express Web Server==

- Must be backed by a ==MySQL or MongoDB Database with a Sequelize or Mongoose ORM or ODM==

- Must have ==CRUD routes== for at least one model

- Must be ==deployed using Heroku==

- 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 p==olished 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

Deliverables

You will be required to submit four Project Deliverables.

01 Plan, Design, and Research

02 Ready MVP (Working App!), Mini-Presentation

03 Project Polish, Functionality Push, Final Plan

04 Presentation Time!

Deliverables 1:
Plan, Design, and Research

Deliverables 1: Plan, Design, and Research

Everything on this screen

01 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.

04 A schedule for completion of various tasks.

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

06 ERDs
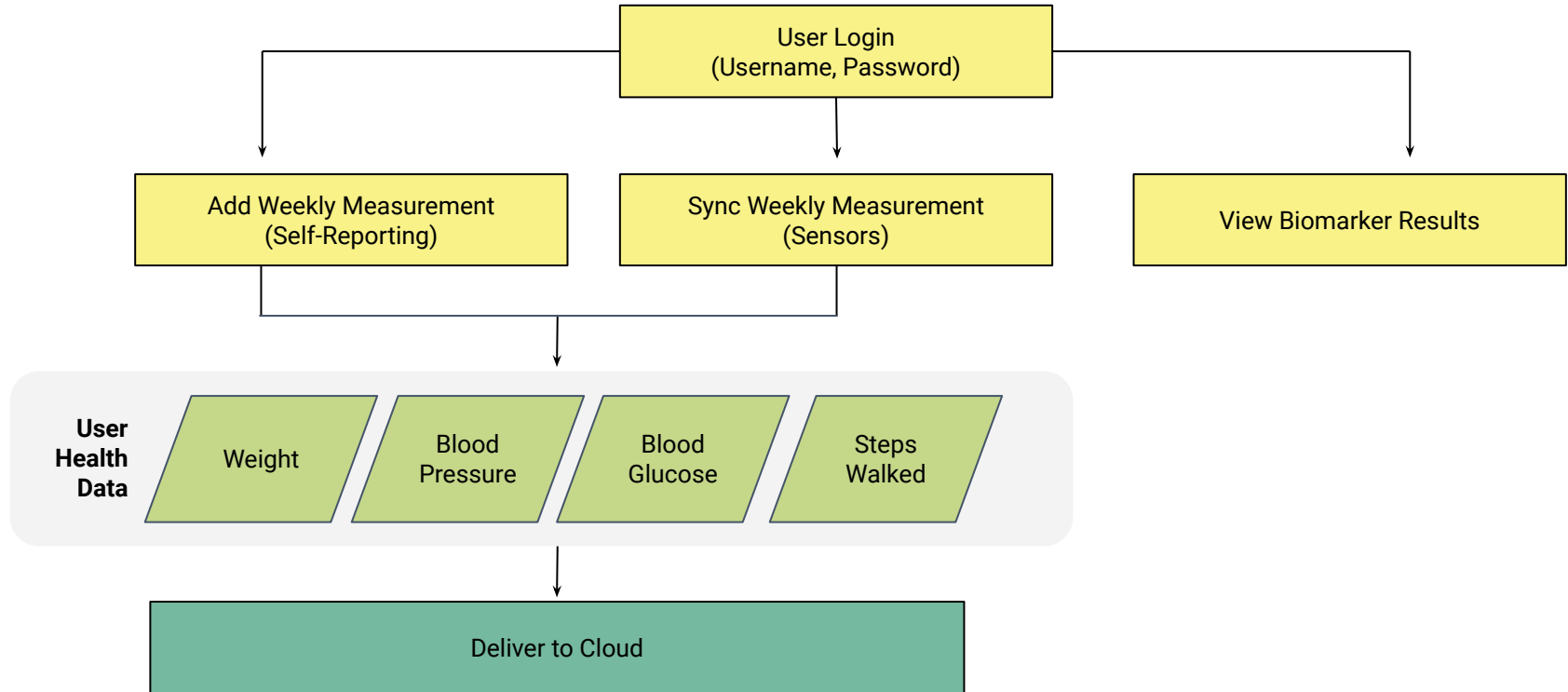
Example UI/UX Flow

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

Questions?