The "Large Project"

COP 4331

University of Central Florida

First...

- Congratulations on being done with the small project
 - Remember to turn in your PowerPoint
- Your work has looked great
 - "Pretty good" has been the low bar
 - That's good
- Especially if you're particularly proud of your work, keep it somewhere
- I may ask for copies of some of your work to use as examples going forward
 - It's up to you whether you're okay with that!
 - You can take down the website

Teams

- We'll be changing teams for the large project
- You'll get to choose your teams this time...
 - ...to an extent
 - Must have at least 6, may have up to 7
 - Team selection will open this weekend
- Don't wait to get started
- You need to do your part: Do What You Say You Will Do (DWYSWD)
 - Be respectful to team members
 - Even if you think you know everything, split the work

- In general, the project will have the following components:
 - Remote database MongoDB
 - Remote API Using Express
 - Web app Using React
 - Runtime environment Node.js on the server side
 - Mobile app Cross-platform framework

- In general, the project will have the following components:
 - Remote database MongoDB
 - Remote API Using Express
 - Web app Using React
 - Runtime environment Node.js on the server side
 - Mobile app Cross-platform framework

Stores data and information

- In general, the project will have the following components:
 - Remote database MongoDB
 - Remote API Using Express
 - Web app Using React
 - Runtime environment Node.js on the server side
 - Mobile app Cross-platform framework

 Connects your user interfaces written via React to the underlying Node environment, and through Node to MongoDB

- In general, the project will have the following components:
 - Remote database MongoDB
 - Remote API Using Express
 - Web app Using React
 - Runtime environment Node.js on the server side
 - Mobile app Cross-platform framework

- The framework for the user interface
- You'll probably also want a second-order style library like Tailwind or Bootstrap
- You may not use straight HTML/CSS
- I'll require you to use TypeScript where appropriate

- In general, the project will have the following components:
 - Remote database MongoDB
 - Remote API Using Express
 - Web app Using React
 - Runtime environment Node.js on the server side
 - Mobile app Cross-platform framework

- The underlying interpreter that runs all the JavaScript code
- Includes a very large number of libraries
- A Node deployment can get very complex
- We will show you techniques to keep it manageable

- In general, the project will have the following components:
 - Remote database MongoDB
 - Remote API Using Express
 - Web app Using React
 - Runtime environment Node.js on the server side
 - Mobile app Cross-platform framework

- Designed to run on phones natively
- Not just displaying the webpage on a phone's browser
- Generally, you will use the Flutter framework to make deploying to both iOS and Android (relatively) easy, and make it (relatively) easy to connect to the rest of the stack

- In general, the project will have the following components:
 - Remote database MongoDB
 - Remote API Using Express
 - Web app Using React
 - Runtime environment Node.js on the server side
 - Mobile app Cross-platform framework

- In general, the project will have the following components:
 - Remote database **M**ongoDB
 - Remote API Using **E**xpress
 - Web app Using **R**eact
 - $oldsymbol{\mathsf{N}}$ Runtime environment $oldsymbol{\mathsf{N}}$ ode.js on the server side
 - Mobile app Cross-platform framework

Documentation Requirements

- Gantt chart
- ERD
- Use Cases
- Sequence diagram or Activity diagram
- SwaggerHub, PostMan, or something like it for API
- Class diagram for the Mobile app
- Unit and Integration test results
- Prototypes / Wireframes Suggest using Figma, Adobe XD or Sketch
 - Yes, these are required

Verification and Security

- When someone creates a new account, send an email to that person before they can login
- You'll also need password reset functionality
- Potential options: SendGrid, NodeMailer, service-native authentication
- We'll discuss best practices on security for the app proper as well
- (Hint: it's not going to involve open API calls like you've been doing)

Past Projects

- Menu programs
- Nutrition programs
- Exercise programs
- Teaching games
- Political programs
- Research-Oriented projects

Past Projects

Menu programs

Nutrition programs

• Exercise programs

Teaching games

Political programs

Research-Oriented projects

No.

Maybe.

Okay.

Okay.

No.

Okay.