Capstone Project - Video 1 Front End

Ben Bowles

MIX xPRO - Coding Program

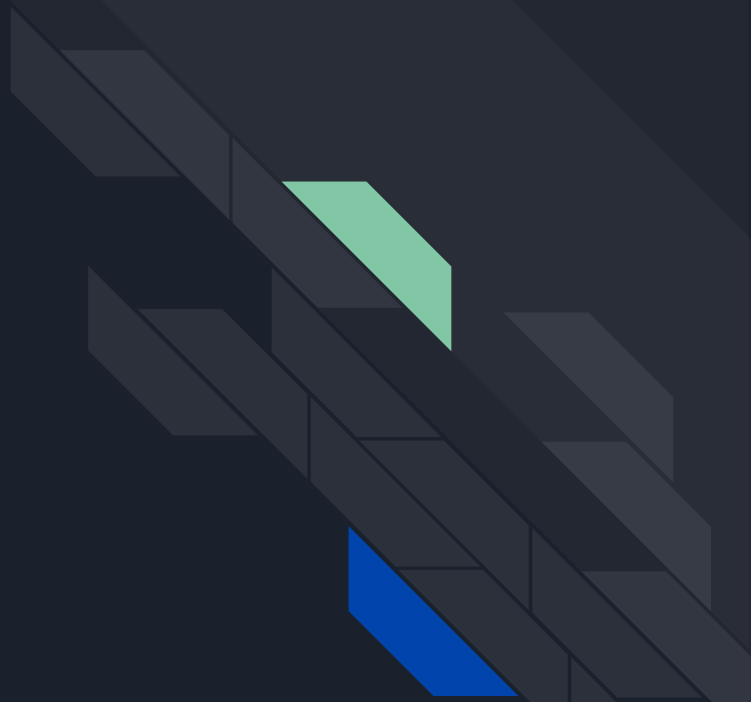
Video 1 - Agenda

I. Overview

II. Front End Architecture

III. Authentication Methods

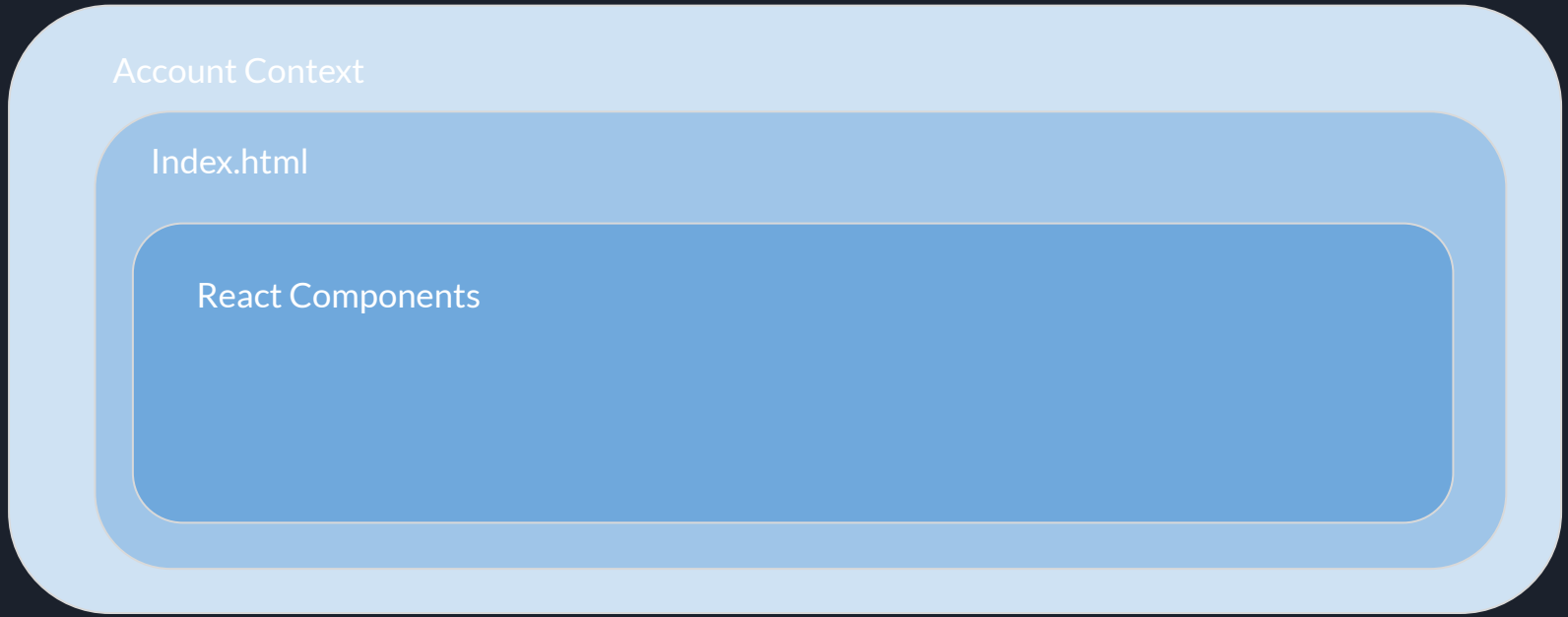
IV. Design Concerns



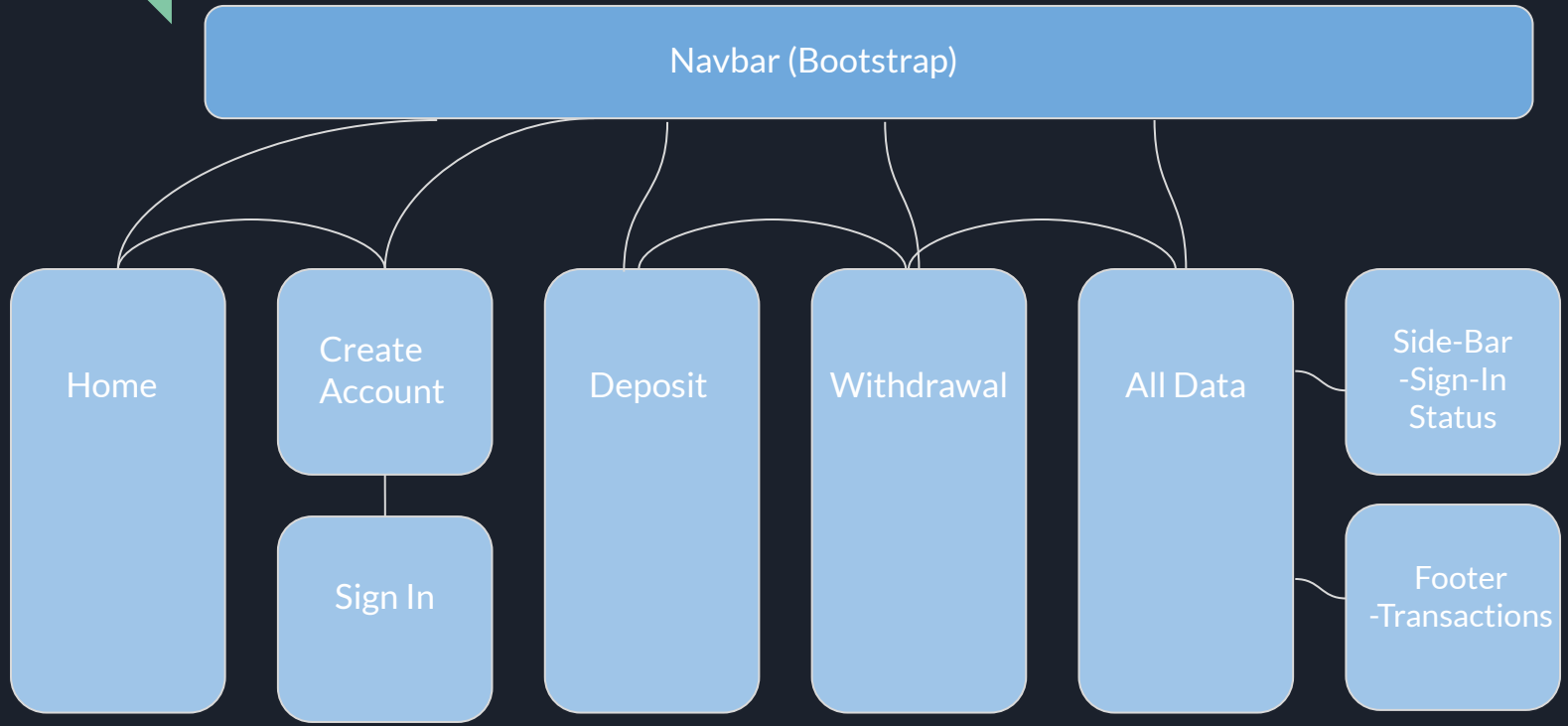
Overview

- Project was coded from scratch
- Uses the Card Component from Bootstrap
- Uses most current version of…
  - React
  - React-DOM
  - React-Router
  - React-Router-DOM
- UI Design Concerns
  - Ease of Viewing
  - Unique Features
    - Sidebar - quick data access
    - Footer - transaction record

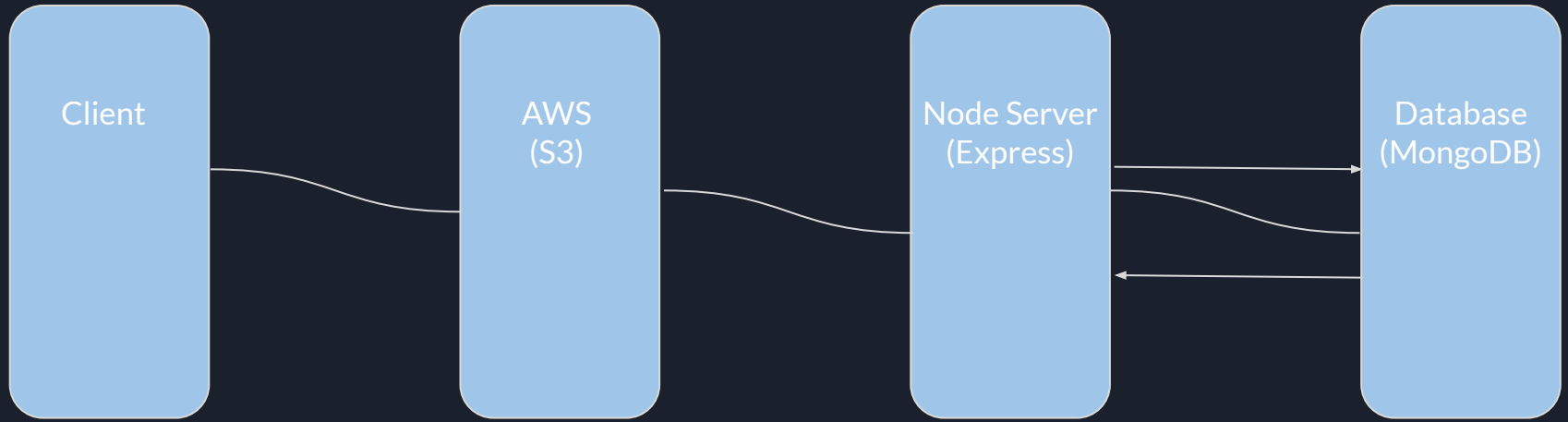
Front-End Architecture - Diagram 1



Component Architecture - Diagram 2



Application Architecture - Diagram 3



UI/UX Design Decisions

- Visibility of ’s
  - Understanding how rendering and CSS work
  - Ease of tracking Elements in Developer Tools (Chrome)
- Ease of Viewing
  - Comparison to production app’s
  - Less “visual density” - spacious Layout
- Consolidation of Data
  - What data objects are related? (Example: Username and Account Information)
  - What else would someone want to see that is relevant to what they are looking for?

Authentication Methods

Field Validation

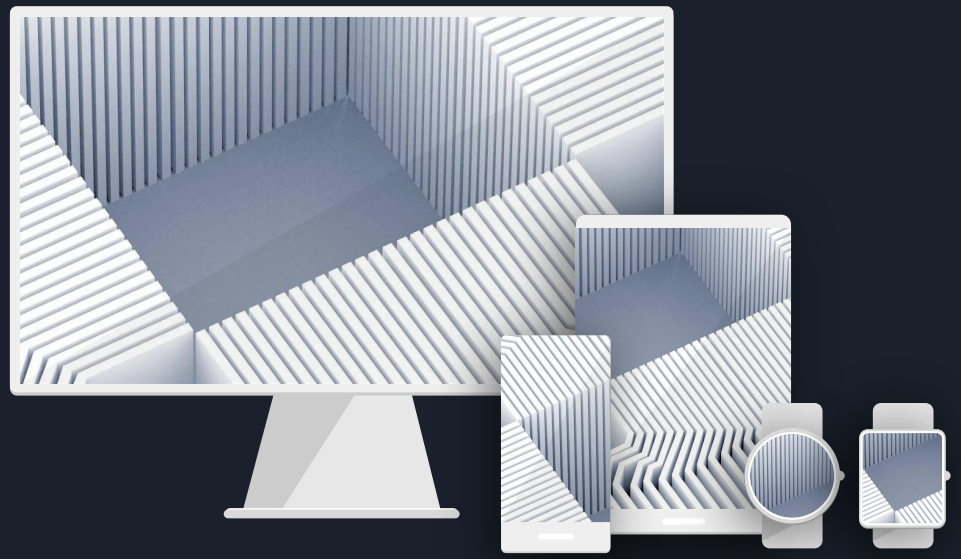
- Basic
- Verifies Data
- Helps in Error Handling

OAuth

- Secure
- Convenient
- Challenges:
- Time-Prohibitive
- Would need more time to implement

Video 1

Thank you!



Capstone Project - Video 2 API and Database

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Video 2 - Agenda

I. Overview
II. Database Usage
III. Data Abstraction Layer
IV. Additional Features
V. Database Specs

Data Usage

I. Persistent Data
   A. Sign-in Information (Username, Email, Password)
   B. CreateAccount Component was written to include MongoDB
      1. Account information is sent to the database

II. Dynamic Data
   A. Currently stored locally
   B. Goal is to incorporate the MongoDB with dynamic data as well
   C. Account Balance - stored locally
   D. Transactions (Deposits and Withdrawals) - stored locally
   E. Transaction History (including timestamp) - stored locally

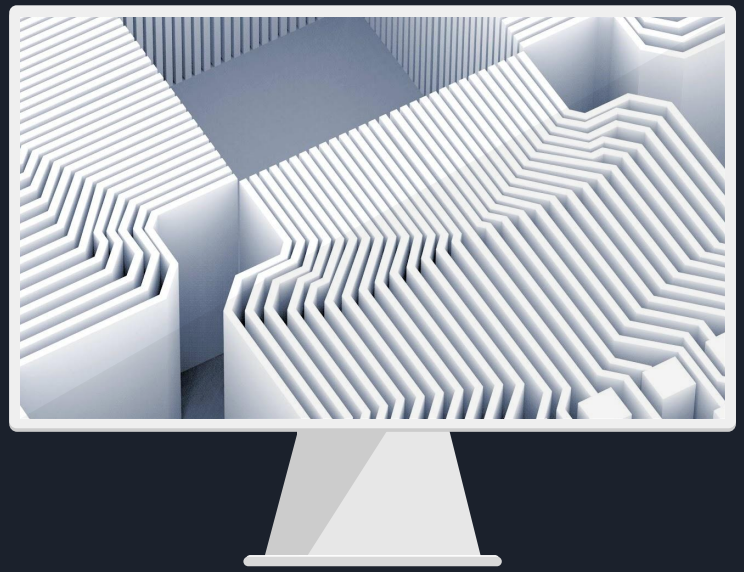
Data Abstraction Layer

I. Background
   A. DAL is a type of API
II. Specification
   A. DAL for this app is built on top of MongoDB Database
III. Handling of Data
   A. DAL sends certain variables to Database: { username, email, password }
IV. Relation to API
   A. Node Server using Express
   B. Standard HTTP requests to database (GET, POST, PUT, DELETE)

Additional Features

I. Randomly generated User ID for every account
   A. This is displayed when a new account is created

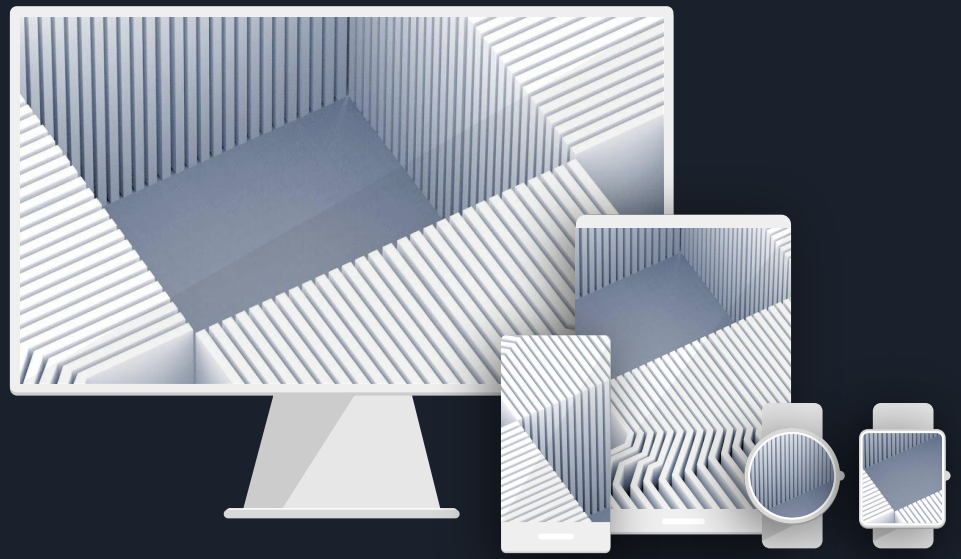
API Specifications



I. API Type: REST API
   A. NoSQL
   B. MongoDB is NoSQL
II. API Endpoints
   A. One for GET and POST
   B. One for PUT and DELETE

Video 2

Thank you!



Capstone Project - Video 3 Deployment and Summary

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Video 3 - Agenda

I. Overview
II. Deployment to AWS
III. Demonstration
IV. Additional Features
V. Reflection

Deployment to AWS

I. Choosing a deployment platform - Initial Challenges
   A. AWS is overly complicated
   B. Vercel, Heroku, Netlify advertise as being faster, easier, etc.

II. Docker
   A. My Capstone Project does not use Docker
   B. I understand Docker uses containers and images to facilitate data transfer/app usage
   C. But I am not sure why Docker is necessary or beneficial

III. Deployment Challenges
   A. Major differences between Development version and Build version
   B. Needed to explore build version on local server to ensure it works

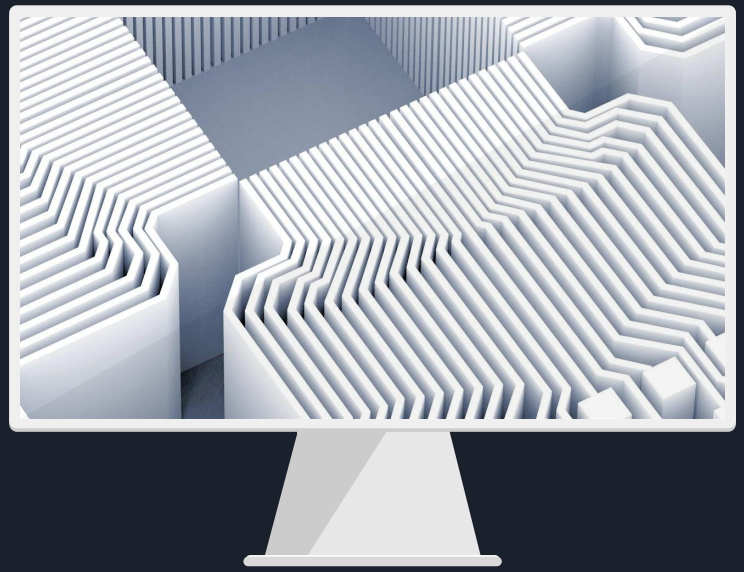
Demonstration

I. Check all Navbar links
II. Notice headings where Bootstrap is mentioned
III. Examples of Context
IV. Show client and server architecture
    A. Fundamentals of App Design

Additional Features

I. Randomly generated User ID for every account
   A. This is displayed when the account is created
II. Banner for design considerations
III. All 's have a border for visual purposes and understanding how rendering works

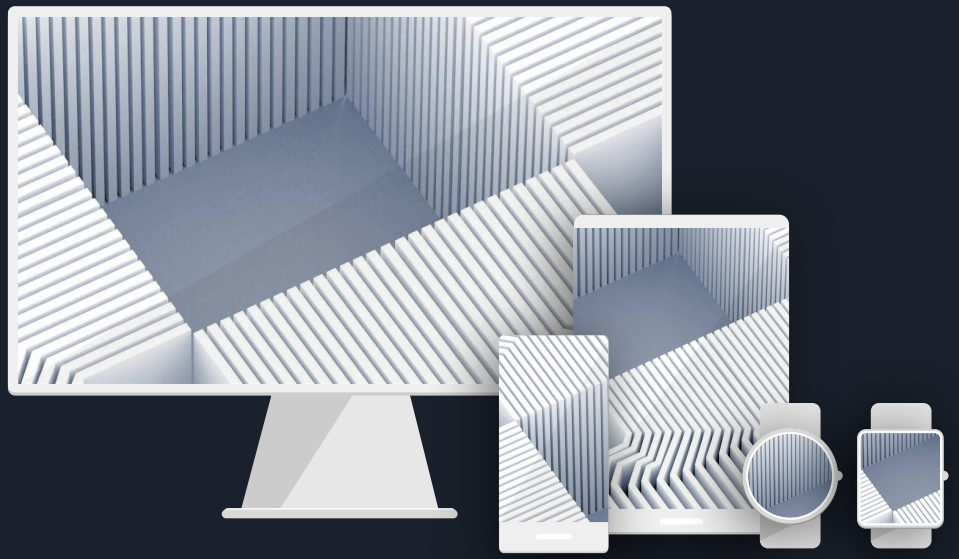
Reflection and Consideration



I. What would I do differently?
   A. Learn Server-side while learning JavaScript and React
   B. Not JavaScript first
   C. Further simplify code and include fewer design features
   D. First ensure very that a basic design works
II. What additional features would I include?
   A. I wouldn't. Too much time.
   B. My app is not perfect.
   C. Build a better app first.

Video 3

Thank you!



Project Objective

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