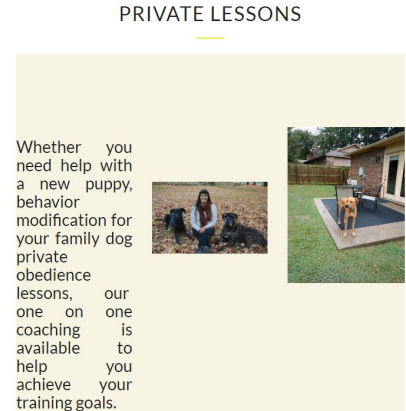

NWA School for Dogs Project

**Khoi Hoang, Weston Myers, Andrew Mobley, Colten McCrea,
Sebastian Vivo 09.09.2022**

The Problems

- Current website is implemented inefficiently and hard to navigate
- Add new information about new Roger's location
- Reimplement online store

Ex. Poor text alignment on pages.



Objectives

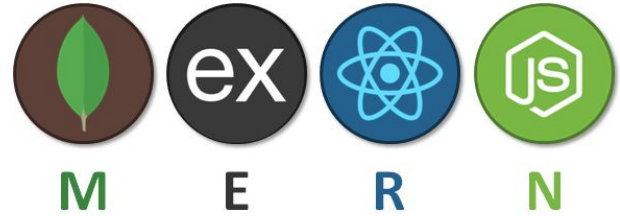
The main objective of our project is to create a fully functional web page in order to do this we divided it up into 3 parts:

- UI Redesign - update entire website's UI to give it a more modern feel
 - Database Management - implement the database in where it keeps previous clients information
 - Online transactions - Implement a way to allow users to purchase items efficiently and securely
-

Background - Key concepts

There are two concepts that we should focus on for this project.

- Familiarizing ourselves with the frameworks (MERN architecture)
- Communication - We want to ensure that the business and the developers have the same intentions



Design - Requirements and Use Cases

Database

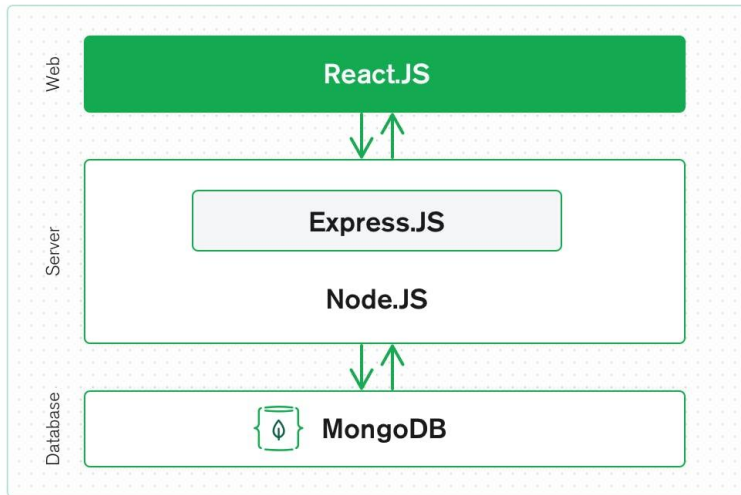
- Must allow customers to enroll in appointments
- Client also needs a system to keep track of upcoming appointments

Clean and navigable site

- Their current site is very cluttered and filled with links that don't take you anywhere
 - We want to create a site that is very clean and where everything has a purpose
-

Design - Architecture

Full Stack Choice



- We chose MERN(MongoDB, Express.js, React.js, Node.js) as our tech stack since it works well with multi-page applications
 - We also decided it would be best to use an MPA since they are better for SEO, and since the website we will be building is for a business with ecommerce capabilities it is imperative that search engines can parse info and boost their site ranking
-

Design - MERN

Client - React.js

- allows interfaces to be built through components, and then connected to your back-end server and rendered as HTML
- This is important because it allows search engine crawlers to parse the information as HTML

Server - Node.js and Express.js

- Express.js is server side framework running in a Node.js server
- Express.js has powerful models for URL routing and handling HTTP requests

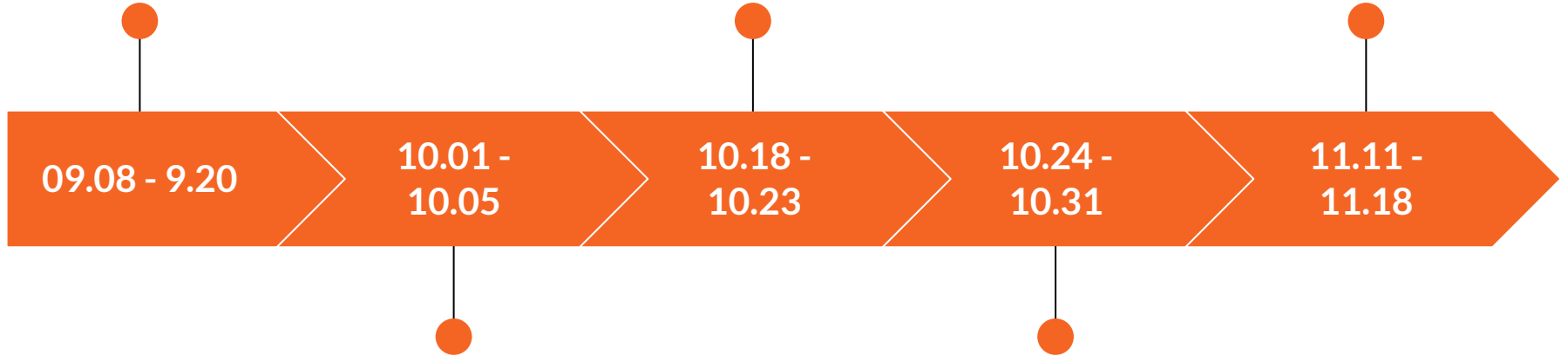
Database - MongoDB

- JSON documents created by React.js can be sent to the Express.js server where they can be processed and stored in MongoDB
-

MERN tech stack
research

Start designing the
user experience

Test Full application



Declare database
schema

Implement Frontend

Key Personnel

Khoi Hoang - database management

Weston Myers - backend

Colten McCrea - frontend

Sebastian Vivo - backend
