

PROJECT 2: Launching March 28, 2021, Demo Day **Friday, May 6, 2022.**

Purpose: *To create a full stack app that addresses a unique challenge or problem.*

BIG IDEAS: “I/We understand and can demonstrate that...”				
Computer programming involves the writing of logic to solve a business problem . Included are loops, variables, decisions, functions and results. Modern web applications are composed of layers , each layer has a distinct set of responsibilities .	Design and development is an iterative, reflective process. Breaking down problems into their smallest component is how you accomplish big things. “ Eat an elephant one bite at a time. ”	Learning new or unfamiliar technologies is a natural part of the process of development. Curiosity about learning and exploring new things is an essential part of being an effective developer. Begin with the end in mind. Prioritize the approach to problem and value to the user.	There is never enough time to do everything you can imagine. Applying standards to complex ideas is the basis for making sound decisions and is necessary to have the most accurate view of what is actually happening.	The agile mindset of the team members and how things are organized significantly impacts the success of the team and quality of the work. My peers are a valuable resource in terms of keeping each other moving. Dr. Google Is Your Friend - as is Discord and Basecamp!

Which PROJECT will your TEAM choose to tackle?

Remember, these are **guidelines. As you navigate the project, where do you see opportunities to **extend** your learning?*

MILD	MEDIUM	SPICY
<p>Problem being addressed:</p> <ul style="list-style-type: none">• A working Full Stack Application with CRUD <p>Your project should include:</p> <ul style="list-style-type: none">• One or two “page” REACT application• Using a basic CRUD API <p>I/We will be able to:</p> <ul style="list-style-type: none">• Store and fetch data with REST• Display fetched data in a browser• Basic validation• Present a clear vision of the outcomes the project needs to generate• Establish the operating principles for the project• Save new data to a database• Create and retrieve “business objects” <p>Example:</p> <ul style="list-style-type: none">• Managing personal information, such as a to-do list or calendar	<p>Problem being addressed:</p> <ul style="list-style-type: none">• Enhancing a Full Stack Application <p>Your project should include:</p> <ul style="list-style-type: none">• React router to manage “pages”• API that handles more than data• Document store database• Use a third party API <p>I/We will be able to:</p> <ul style="list-style-type: none">• Use more sophisticated GUI components downloaded from the internet (maybe something like Google Maps)• Create sophisticated web API endpoints• Using third party APIs - Credentials on public API (API KEY)• Make changes to a database schema• Add relevant experience promises and key storylines for users <p>Example:</p> <ul style="list-style-type: none">• Enrich information from a public repository of data	<p>Problem being addressed:</p> <ul style="list-style-type: none">• Different views of a system• Deeper understanding of server <p>Your project should include:</p> <ul style="list-style-type: none">• React w/ Context API, a global state library and/or other features• Import components• Update and Delete part of CRUD• Authentication• SQL• Second application for administrator <p>I/We will be able to:</p> <ul style="list-style-type: none">• Authenticate a user• Secure a web API• Create a “second site” off the same API• Show the degree to which my work is meeting the project outcomes, promises, stories, and principles <p>Examples:</p> <ul style="list-style-type: none">• Create a web application that connects a user with a service that requires a person “behind the curtain” to act (like picking and shipping an order)• Create a site that maintains user history and preferences