Capstone Project: Handyman Services Website

**1. Tech Stack**

Front-end: React

Back-end: Node.js with Express.js

Database: PostgreSQL

**2. Focus**

This project will be a full-stack application with a balanced focus on both front-end UI and back-end functionality. The front-end will provide a user-friendly interface for browsing services and requesting quotes, while the back end will handle API requests, data management, and potentially user authentication.

**3. Type**

This project will be a website.

**4. Goal**

The goal of this project is to create a website for a handyman services business. The website will allow users to browse the available services, learn more about the business, and request quotes for specific services.

**5. Users**

The target users for this website are homeowners in Lakeland, Florida, and surrounding areas who need help with yard work, mulching, moving, and other handyman services. The demographic is likely to be adults aged 25-65, with a focus on those who are busy or unable to perform these tasks themselves.

**6. Data**

The website will use data from a PostgreSQL database to display the available services. The database will contain information such as service names, descriptions, pricing, and potentially customer reviews or testimonials.

**Approach to Creating the Project**

**Database Schema:** The database schema will include tables for services, customer information, and potentially quotes or orders. The services table will have columns for service name, description, price, and category (e.g., yard work, mulching, moving).

**API Issues:** Potential issues with the API could include handling concurrent requests, data validation, and ensuring data integrity.

**Sensitive Information:** If the website includes user accounts or payment processing, sensitive information such as passwords and credit card details will need to be secured using encryption and appropriate security measures.

**Functionality:** The website will include functionality for browsing services, requesting quotes, and potentially creating user accounts and managing appointments.

**User Flow:** The user flow will involve landing on the home page, browsing services, selecting a service, requesting a quote, and potentially creating an account or booking an appointment.

**CRUD App Features:** The website will go beyond basic CRUD functionality by potentially including features such as:

Filtering and sorting services

Searching for services

User authentication and authorization

Contact forms or live chat

Map integration to show service areas

Integration with payment gateways

Stretch Goals

**Customer Reviews and Ratings:** Allow customers to leave reviews and ratings for services.

**Admin Dashboard:** Create an admin dashboard to manage services, quotes, and customer information.

**Multilingual Support:** Add support for multiple languages.

**Responsive Design:** Ensure the website is fully responsive across different devices.

Additional Information

The website will be designed with a clean and user-friendly interface.

The content will be informative and engaging.

The website will be optimized for search engines.

**GitHub Repository**

A GitHub repository will be created to store the project code and documentation.

**Mentor Approval**

The proposal will be reviewed by the mentor, and feedback will be incorporated before proceeding with the project.