



A CRM APPLICATION TO ENGINEERING WORKS

Overview of the Application

Objective

- To develop an application that efficiently manages client information for engineering projects.
- Key components: company information, owner details, worker information, material requirements, and process tracking.

Key Features

- Efficient storage and retrieval of client and project data.
- Material requirements and price calculations based on measurements.
- Automatic tracking of engineering workflows.

Core Components of the Application

1. Client Information

- Company Details
- Owner and Contact Information

2. Worker Information

- Workers assigned to tasks
- Worker details (e.g., role, contact info)

3. Material Requirements

- Materials needed for each project
- Measurement tracking for accurate pricing

4. Process Management

- Manage the various engineering processes involved (Fabrication, Shed Construction, Pipe Lining)

Engineering Works Overview

Types of Work

1. Fabrication

- Involves processes like Drilling, Welding, Cutting, and Folding.

2. Shed Construction

- Construction of sheds for different project types.

3. Pipe Lining

- Pipe repairing and replacing.

Fabrication Work Process

Processes Involved

- **Drilling:** Creating holes in metal for assembly.
- **Welding:** Joining materials by melting them.
- **Cutting:** Trimming metal pieces to specifications.
- **Folding:** Shaping metal into desired forms.

Tracking

- The app will track each step, the workers involved, material usage, and associated costs.

Shed Construction Process

Construction Steps

- Foundation work.
- Frame construction.
- Roof installation.
- Final touches (painting, fitting doors/windows).

Project Tracking

- Materials used for each step.
- Worker assignments and timelines.

Pipe Lining Process

Repairing Pipes

- Assessing damage and determining necessary repairs.
- Materials and parts required for repair.

Replacing Pipes

- Identifying pipes for replacement.
- New pipe specifications and material needs.

App Functionality

- Automatic material calculation based on measurements.
- Worker tracking and task management.

Material Requirements and Pricing Calculation

Material Management

- Input material types, quantities, and measurements.
- Automatically calculate material costs based on project details.

Pricing

- Application calculates total price for materials based on measurements.
- Ensures accurate pricing for the client and project.

Conclusion

The proposed application will streamline project and client management, automate material and pricing calculations, and enhance workflow tracking across engineering processes. It will optimize resource allocation, improve cost management, and provide real-time data for better decision-making. The user-friendly interface ensures ease of use, while the system's scalability supports business growth. Next steps include finalizing specifications, development, testing, deployment, and training.



Thank you!