**Project Overview**

The Fuel Inventory Management System -Module helps track fuel stock levels, suppliers, inventory additions, and usage. It allows managers to record new fuel supplies, update stock details, view current availability, and remove outdated entries. The system ensures accurate monitoring of fuel quantities to avoid shortages or wastage.

**Features List**

* Add new fuel stock (fuel type, liters, price, supplier).
* Update fuel stock details (increase/decrease quantity, update price).
* View all current inventory (fuel types with available liters & cost).
* Delete inventory records (when stock is consumed or expires).

**Tech Stack**

* **Frontend:** React + TailwindCSS (CDN)
* **Backend:** Node.js + Express.js
* **Database:** MongoDB
* **Tools:** GitHub, Postman, VS Code

**API Endpoints Plan (CRUD)**

Base URL: /api/fuel-inventory

* GET /inventory → List all fuel stock
* POST /inventory → Add new fuel stock
* PUT /inventory/:id → Update stock (liters, price, etc.)
* DELETE /inventory/:id → Remove stock

**UI Wireframe**

A paper with text on it

AI-generated content may be incorrect.A white paper with writing on it

AI-generated content may be incorrect.

**Setup Guide**

**Backend Setup**

1. Clone repo: git clone <backend-repo-url>
2. Run npm install
3. Setup .env file (MongoDB connection string)
4. Run server: npm start

**Frontend Setup**

1. Clone repo: git clone <frontend-repo-url>
2. Run npm install
3. Start project: npm run dev