FUEL MANAGEMENT SYSTEM

Introduction :-

The purpose of this fuel management system is to provide a more efficient, reliable and secure platform for tracking and managing fuel usage and inventory for a fleet of vehicles. The fuel management system will allow organizations to monitor fuel consumption, generate reports and analytics, and manage inventory in real-time. This system will help organizations to improve their fuel efficiency, reduce costs and streamline their fuel management processes.

The fuel management system will automate the process of maintaining the database of suppliers, managing payments, and keeping a check on tankers and machines. A fuel management system will make sure the owner is able to track sales and other activities of a fuel with more accuracy.

Abstract :-

The fuel management system will be developed as a web-based application using a modern technology stack. The system will be designed to be easy to use, reliable and scalable. It will provide users with a secure and efficient way to manage their fuel inventory, track fuel consumption, and generate reports and analytics. The fuel management system will be developed using the Spring Boot Framework, and it will use a MySQL database for data storage.

Scope :-

The fuel management system will cover the following areas:

- Fuel Inventory Management
- Fuel Consumption Tracking
- Fuel Expense Tracking
- Real-time Reporting and Analytics
- Integration with other fleet management systems

Functionalities :-

- To avoid bug free application.
- The main objective is to build a secured, robust and Fuel Management system.
- It maintains the record of the Fuel type, Staff, Suppliers, Machines, Tankers, Payments, etc.

- Admin will be responsible for keeping a check on stocks of fuel, Tankers, machines, payments, etc. Admin can manage all the sales records of the petrol.

Modules :-

- ➢ **Admin**
- ➢ **Payment**
- ➢ **Availability**
- ➢ **Supplier**
- ➢ **Staff**

❖ **Admin :-**

This module will allow Admin to log in to the system and manage the system and its functions.

❖ **Payment :-**

Payment related operations can be performed in this module.

❖ **Availability :-**

In this module, Admin can manage the availability of fuel and fuel types.

❖ **Supplier :-**

All the operations related to suppliers can be managed by the admin in this module.

❖ **Staff :-**

All the operations related to staff and employees can be managed in this module.