Website Overview:

This website is a **comprehensive platform designed to manage tasks and maintenance operations in factories and industrial facilities**. It helps factory managers, supervisors, technicians, and other users streamline maintenance operations, manage assets, track tasks, and optimize overall efficiency.

General Purpose:

- Organize and assign maintenance tasks.
- Monitor equipment and schedule preventive maintenance.
- Analyze performance and productivity.
- Manage resources including machines, locations, spare parts, and employees.

Target Users:

- Factory Managers (Admins)
- Maintenance Supervisors
- Technicians
- Maintenance Requesters
- System Viewers
- Super Admin (Website Controller)

Public Pages (No Login Required):

- **Home Page:** Overview of features and benefits.
- **About Us:** Company and project background.
- **Contact Us:** Form to send messages to website administration.
- **Register / Login Page**

Registration & Access Cycle:

1. Any visitor can explore public pages.
2. They can register for a **7-day free trial** to access all features.
3. Upon registration, the user is assigned the **Admin** role for their company.
4. After the trial, they must **subscribe ($20/month or $216/year)** to continue using the system.

Dashboard Pages (After Login):

- **Work Orders:** Create, assign, and track maintenance tasks. Views: calendar, columns (Open/In Process/Hold/Complete), table.
- **Preventive Maintenance:** Schedule regular maintenance for equipment.
- **Analytics:** View stats on open tasks, performance, maintenance efficiency.
- **Requests:** Users can submit maintenance requests; Admin can approve or reject.
- **Machines:** Add/view machine data (model, serial, category, manufacturer, etc.).
- **Locations:** Admin can define company locations.
- **Store:** Manage spare parts/tools and inventory data.
- **Employees:** Admins can add/delete employees and assign roles.
- **User Profile:** View/edit personal info and status (on shift/off shift/on call).
- **Company Profile:** Editable by Admin only.
- **Notifications:** For tasks, approvals, reminders, and subscription alerts.

Super Admin Dashboard:

The **Super Admin** has access to an advanced dashboard to:

- Monitor the entire system and all companies.
- View messages submitted via the Contact page.
- Manage FAQs shown on the homepage.
- Track total number of companies and users.
- Manage subscriptions and payment history.
- Add custom static content to the website.

Advanced Features (Customizable Add-ons):

1. Custom System Development for Factories

Factories can **contact the Super Admin** to request:

- A **customized version of the platform** tailored to their operations.
- Additional modules that suit their business model.

2. Production Management Module (Optional Add-on)

- Track production volume.
- Record defective/rejected units.
- Set production plans.

- Monitor machine efficiency and performance.
- Optimize resource utilization and timelines.

3. Sensor & IoT Integration

- Connect **energy sensors** and **machine status monitors**.
- Track real-time energy consumption.
- Monitor active vs. inactive machines.
- Measure and analyze power usage.
- Create plans for **energy efficiency and cost savings**.

Technology Stack:

Backend:

- Node.js / Express
- MVC Architecture
- PostgreSQL (via Sequelize CLI)
- JWT Authentication
- Environment Variables

Frontend:

- React (Vite JS)
- Tailwind CSS

Payment & Subscription System:

- 7-day free trial after registration.
- Afterward: $20/month or $216/year subscription.
- Auto-renewal and reminders before expiration.
- Role change from free user to paid user after payment.

Notification System:

- New task assignments.
- Request status updates (approved/rejected).
- Preventive maintenance reminders.
- Subscription expiration alerts.

Color Theme:

- Primary Orange: `#FF5E14`
- Dark Gray: `#5F656F`
- Light Gray: `#F5F5F5`
- Deep Blue: `#02245B`