

## Website Overview

Opti plant is a comprehensive digital platform for managing 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.

In addition, the system allows factories to contact the company behind the platform to request a **custom version** tailored to their specific operational structure. These customized solutions may include:

- **Production management** and workflow control
- **Quality assurance** and defect reduction
- **Scrap/waste tracking and reduction**
- **Improved inter-departmental communication**
- **Energy monitoring and efficiency planning**
- **Remote machine control** (turn on/off)
- **Machine performance tracking and optimization**

This makes the platform not only a maintenance management tool but also a smart, scalable foundation for industrial digital transformation.

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## 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
- Provide **custom system development** tailored to each factory's structure
- Support **production monitoring, quality control, and scrap reduction**
- Enable **remote control of machines and energy usage tracking**
- Improve **communication across departments**

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## Target Users

- Small and medium-sized industrial factories
- Large manufacturing facilities with multiple departments
- Energy-conscious factories aiming for efficiency and automation
- Companies seeking to digitize operations and reduce unplanned downtime
- Industrial businesses looking for customized software solutions

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## Public Pages (No Login Required)

- **Home Page:** Overview of core features, benefits, and access to free trial
- **About Us:** Company vision and background of the platform
- **Contact Us:** A direct form for reaching technical and sales support
- **Service Page:**  
Dedicated to **custom factory solutions**, this page explains how factories can contact the system provider to request a **tailored version** of the platform that fits their unique needs. Whether it's production tracking, machine integration, energy monitoring, or inter-department coordination, our team can build it for you.
- **Register / Login Page:** Secure access to the system via free trial or paid subscription

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## Registration & Access Cycle

1. Visitors 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, users must subscribe (\$20/month or \$216/year) to continue

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## Dashboard Pages (After Login)

- **Work Orders:** Create, assign, and track maintenance tasks (Views: calendar, Kanban, table)
- **Preventive Maintenance:** Schedule recurring maintenance for equipment
- **Analytics:** Real-time performance indicators and efficiency reports
- **Requests:** Maintenance request submission and approval system
- **Machines:** Register and manage machine details (model, serial, manufacturer, etc.)
- **Locations:** Define and organize facility locations
- **Store:** Spare parts inventory management
- **Employees:** Add, assign roles, and manage staff records
- **User Profile:** View and update user details and status (on shift/off shift/on call)
- **Company Profile:** Company-wide data management (Admin only)
- **Notifications:** Automatic alerts for task updates, approvals, maintenance schedules, and subscription status

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## Super Admin Dashboard

- Monitor all registered companies and user activity
- View messages from the Contact Us page
- Manage the **FAQs section** on the public homepage
- Track number of companies, users, and system performance
- Oversee all subscriptions and payment history

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## Advanced Features (Customizable Add-ons)

### 1. Custom System Development for Factories

Factories can contact the Super Admin to request:

- A tailored version of the platform to fit their workflows
- Additional modules designed for their specific business model

### 2. Production Management Module (Optional)

- Track daily production output
- Log defective/rejected units
- Set and monitor production plans
- Monitor machine efficiency and downtime
- Optimize labor and material resource usage

### 3. Sensor & IoT Integration

- Connect energy sensors and machine monitors

- Track **real-time energy consumption**
- Detect active/inactive machines automatically
- Visualize power usage trends
- Plan for **energy efficiency and cost savings**
- **Remotely control devices** and machine power states

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## Technology Stack

### Backend:

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

### Frontend:

- React (Vite JS)
- Tailwind CSS

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## Payment & Subscription System

- 7-day free trial
- Monthly plan: \$20/month
- Yearly plan: \$216/year
- Automatic renewal with notifications
- Role transition from trial to full access after payment

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## Notification System

- New task assignments
- Request status updates
- Preventive maintenance reminders
- Subscription alerts before expiration

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## Color Theme

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