

Factory Maintenance and Task Management Website Requirements

1. Project Overview

1.1 Website Purpose

A specialized website for managing tasks and maintenance in factories and industrial facilities, allowing users to organize and track maintenance work and manage resources.

1.2 Target Audience

- Factory managers
- Maintenance supervisors
- Technicians
- Maintenance requesters
- System monitors

1.3 Key Features

- Work order management
- Preventive maintenance scheduling
- Analytics and statistics
- Maintenance request management
- Management of locations, equipment, stores, and employees

2. Website Structure

2.1 Public Pages (Available without login)

- Homepage: Displays an overview of the service and its features
- "About Us" page: Information about the company
- "Contact Us" page: A form for communicating with the website administration
- Registration and login page

2.2 Dashboard (After login)

- Work Order
- Preventive Maintenance
- Analytics
- Requests
- Locations
- Machines

- Store
- Employees
- User Profile
- Company Profile
- Notifications

2.3 Super Admin Dashboard

- Managing messages from the contact page
- General statistics
- Managing registered companies
- Managing Frequently Asked Questions (FAQ)
- Managing subscriptions and payments

3. User Types and Permissions

3.1 Admin

- Create and manage all users
- Manage all company data
- Full access to all pages and functions
- Manage work orders and tasks
- Manage work orders and tasks
- Access to store data
- Manage preventive maintenance

3.2 Supervisor

- Manage work orders and tasks
- Access to store data
- Manage preventive maintenance

3.3 Technician

- Execute and update task status
- Access to store data
- View machine details

3.4 Requester

- Submit maintenance requests

3.5 Viewer

- View data only without modification

3.6 Super Admin

- Manage the website in general
- Monitor all subscribed companies

4. Page Details and Functions

4.1 Registration Page

Required Fields:

- First name
- Last name
- Email
- Phone number
- Password
- Company name

Functions:

- Email verification
- Creating an admin account for the company
- Activating a 7-day free trial period

4.2 Login Page

Required Fields:

- Email
- Password

Functions:

- User authentication
- Redirection to dashboard
- Forgotten password recovery

4.3 User Profile Page

Displayed Information:

- First and last name
- Job role
- Email
- Phone number

- Profile picture
- Company name
- Work status (On shift / End shift / On call)

Editable Functions:

- Change profile picture
- Edit phone number
- Change password

4.4 Company Profile Page

Displayed Information:

- Company name
- Company email
- Phone number
- Address
- Website
- Company image

Note: Only users with admin permissions can edit this information.

4.5 Work Order Page

Display Options:

- Calendar
- Columns
- Table

Functions for Creating a New Work Order: Required Fields:

- Work order title
- Description
- Category
- Priority (high, medium, low, none)
- Images
- Equipment to be maintained
- Equipment location
- Due date
- Start date
- Assign to primary person
- Assign to secondary person

Task Statuses:

- Open
- In progress
- On hold
- Completed

4.6 Preventive Maintenance Page

Functions:

- Add equipment
- Set preventive maintenance schedule
- View maintenance schedule

4.7 Analytics Page

Displayed Information:

- Open tasks
- Maintenance requests
- Various statistics and reports

4.8 Requests Page

Admin Functions:

- View maintenance requests from other users
- Approve or reject requests

Other Users' Functions:

- Submit a maintenance request containing:
 - Title
 - Description
 - Priority
 - Images
 - Files

4.9 Locations Page

Functions (for admin only):

- Add locations for the company
- Record data such as:
 - Name
 - Address
 - Image

- Notes

4.10 Machines Page

Recorded Information:

- Name
- Description
- Model
- Manufacturer
- Serial number
- Category
- Location
- Image
- Description
- File
- Notes

Note: Available to supervisor/technician/requester for viewing only.

4.11 Store Page

Functions (for admin and supervisor/technician):

- Add spare parts or tools
- Record data such as:
 - Part name
 - Part number
 - Category
 - Description
 - Image
 - Location
 - Quantity
 - Notes
 - File

4.12 Employees Page

Functions (for admin only):

- Add/delete employees
- Assign roles
- Manage employee information

5. Website Usage Cycle

1. User enters the website and browses the public pages (home/about us/contact us)
2. Registers for a 7-day free trial
3. Logs in to the maintenance dashboard with an admin role
4. Navigates between pages and adds users, spare parts, work orders, etc.
5. After 7 days, the user must pay:
 - \$20 for one month
 - or \$216 for a full year

6. Technologies Used

6.1 Backend

- Node.js
- Express
- MVC
- Nodemon
- PostgreSQL
- PG Admin
- Sequelize CLI
- Env
- JWT

6.2 Frontend

- React Vite JS
- Tailwind CSS
- Axios
- Redux
- Email JS

7. Color Scheme

- #FF5E14
- #5F656F
- #F5F5F5
- #02245B

8. Additional Requirements

8.1 Notification System

- Notifications for new tasks
- Notifications for approved/rejected requests
- Preventive maintenance reminder notifications

- Notifications before subscription expiration

8.2 Payment and Subscription System

- Mechanism to convert from trial account to paid account
- Payment processing
- Subscription renewals
- Payment reminder notifications