

Maintenance Management System

Software Specification

The software consists of Models and Functionalities

Asset

Model

- Name
- Serial Number
- Location
- Facility
- Manuals
- Model
- Manufacturer
- Facility
- Maintenance Procedures
- Asset Type

Functionalities

- **Add asset**
User with the right credentials and permissions can add an asset and print a unique bar-code sticker.
- **List and filter asset**
User with the right credentials and permissions can list assets and filter them based on name, model, serial-number, manufacturer, facility and type
- **Assign maintenance order on asset**
User with the right credentials and permissions can assign maintenance work order on a certain asset, schedule maintenance in the future and notify the designated person when the work order is due.
- **Add Procedure to be carried out during asset maintenance process**
User with the right credentials and permissions can add the required procedures and maintenance rules for specific assets, rules can be related to asset age. The suitable procedure shall be viewed by the maintainer while performing the maintenance task.

Manufacturer

Model

- Name
- Country
- Website

Functionalities

- Add Manufacturer
User with the right credentials and permissions can add manufacturer
- List and filter asset
User with the right credentials and permissions can list manufacturers and filter them based on name, country or asset

Work Order

Model

- Title
- Asset
- Due date
- Type (on-demand/ scheduled)
- Assigned to (employee)
- Issued by (admin)

Functionalities

- There are two types of work orders
 - Preventive Maintenance (PM) Work Order
Can be scheduled for later time and can be assigned to be repeated every certain period of time
Each asset can have multiple PM work orders
 - On Demand Word Order
This can be added on demand for a certain asset at any time, for scenarios like asset breakage or routine inspection.
- Work orders can be viewed in table view and in Calendar view for ease of access.
- Each work order will have a color code to show it's status (pending / completed / overdue ..)
- User can filter work orders by asset, type, status, due-date and maintainer

Notifications

Model

- Title
- Details
- Type

Functionalities

- Notifications can be sent to admin when work orders are overdue
- Notifications can be sent to maintainer assigned to a certain work order as a reminder.

User

Model

- Username
- Email
- Password
- Role

Functionalities

- User can log in via username/email and password
- Admin can add unlimited users
- Admin can assign Role to user (admin / employee / supervisor)