



Faculty of Engineering Cairo
University



Systems and Biomedical
Engineering Department

CMMS for hospitals

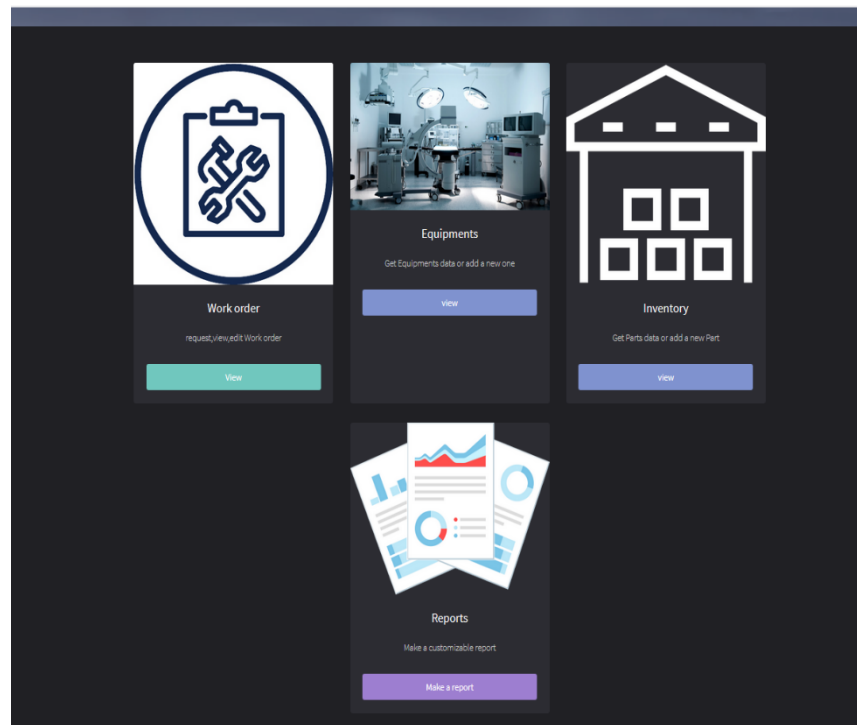
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1. Introduction:

This CMMS system is Web based system it was implemented using Python and Flask, for the database we used PHPMyadmin as our local server.

The website consists of four icons.



2. Equipment Icon:

In the equipment icon a user can view current equipment in the database, and search for them by three fields , the equipment name the, the installation date and the warranty expiration date, the user can also add a new equipment or edit an existing one also a user can open the data sheet of each equipment.

2.1 view and search

Once the user clicks on the view equipment button he equipment table will appear

Home

View Equipments

Add new Equipments

Edit Equipments

Equipment

Installation date

Warranty date

Pick Equipment Name

mm / dd / yy

mm / dd / yy

Search

Asset_ID	Name	Serial_number	Model_number	Model_name	Manufacturer	Installation_date	Warranty_expires	Facility	Building	Floor	Department	Scrapping_date	Data_sheet
1	Syringe pump	2100587	SPLF2	MO-SPLF2	Holmark	2019-02-01	2024-02-01	Cairo hospital	1	1	ICU	None	Syringe pump_1.pdf
2	Electric ICU Bed	3140687	AG-BY003C	AG-BY003C	AEgEA	2016-10-08	2021-10-08	Cairo hospital	1	1	ICU	None	Electric ICU Bed_2.pdf
3	Defibrillator	5170687	M4735A	Heart start XL	Philips	2014-03-01	2022-03-01	Cairo hospital	1	1	ICU	None	Defibrillator_3.pdf
4	CT scanner	6150487	CT6000ICT	CT6000ICT	Philips	2015-05-17	2026-05-17	Cairo hospital	2	1	Radiology	None	CT scanner_4.pdf
5	MRI Machine	9145687	Siemens Aera 1.5T	Siemens Aera 1.5T	Siemens	2014-07-01	2027-07-01	Cairo hospital	2	1	Radiology	None	MRI Machine_5.pdf
6	3D-4D Ultrasound	2175987	SAXXLV-EXP	Sonoae X8	Samsung	2018-04-07	2023-04-07	Cairo hospital	3	2	Obstetrics and Gynecology	None	3D-4D Ultrasound_6.pdf

We can search for an equipment by entering its name:

The following screen shot was taken when entering Syringe pump in the first field.

Home

View Equipments

Add new Equipments

Edit Equipments

Equipment

Installation date

Warranty date

Pick Equipment Name

mm / dd / yy

mm / dd / yy

Search

Asset_ID	Name	Serial_number	Model_number	Model_name	Manufacturer	Installation_date	Warranty_expires	Facility	Building	Floor	Department	Scrapping_date	Data_sheet
1	Syringe pump	2100587	SPLF2	MO-SPLF2	Holmark	2019-02-01	2024-02-01	Cairo hospital	1	1	ICU	None	Syringe pump_1.pdf

Activate Windows
Go to Settings to activate Windows.

Or by entering the installation and warranty expiration dates:

The following screen shot was taken by entering 2016-10-08 in the second field and 2021-10-08 in the last field.

The screenshot shows a web application interface for equipment management. At the top, there are four buttons: "Home", "View Equipments", "Add new Equipments", and "Edit Equipments". Below these is a search form with three input fields: "Equipment" (with a dropdown menu labeled "Pick Equipment Name"), "Installation date" (with a date picker showing "mm / dd / yy"), and "Warranty date" (with a date picker showing "mm / dd / yy"). A "Search" button is to the right of the date fields. Below the search form is a table with 14 columns: "Asset_ID", "Name", "Serial_number", "Model_number", "Model_name", "Manufacturer", "Installation_date", "Warranty_expires", "Facility", "Building", "Floor", "Department", "Scrapping_date", and "Data_sheet". The table contains one row of data for an "Electric ICU Bed".

Asset_ID	Name	Serial_number	Model_number	Model_name	Manufacturer	Installation_date	Warranty_expires	Facility	Building	Floor	Department	Scrapping_date	Data_sheet
2	Electric ICU Bed	3140687	AG-BY003C	AG-BY003C	AEgEA	2016-10-08	2021-10-08	Cairo hospital	1	1	ICU	None	Electric ICU Bed_2.pdf

Activate Windows
Go to Settings to activate Windows.

The user can open an equipment data sheet by clicking on the data sheet name in the data sheet column, a window will pop up and asking for the data sheet name by filling it we can open the data sheet as in the following screen shots:

The screenshot shows a web application interface for equipment management. It displays a table with 14 columns: "Asset_ID", "Name", "Serial_number", "Model_number", "Model_name", "Manufacturer", "Installation_date", "Warranty_expires", "Facility", "Building", "Floor", "Department", "Scrapping_date", and "Data_sheet". The table contains 15 rows of data for various medical equipment. A modal dialog box is open over the table, asking the user to "Enter Equipment's data sheet name (Name_Asset ID) please". The input field contains "Tourniquet_9.pdf". The dialog has "OK" and "Cancel" buttons.

Asset_ID	Name	Serial_number	Model_number	Model_name	Manufacturer	Installation_date	Warranty_expires	Facility	Building	Floor	Department	Scrapping_date	Data_sheet
5	MRI Machine	9145687	Siemens Aera 1.5T	Siemens Aera 1.5T	Siemens	2014-07-01	2027-07-01	Cairo hospital	2	1	Radiology	None	MRI Machine_5.pdf
6	3D-4D Ultrasound	2175987	SAXXLV-EXP	Sonoae X8	Samsung	2018-04-07	2023-04-07	Cairo hospital	3	2	Obstetrics and Gynecology	None	3D-4D Ultrasound_6.pdf
7	3D-4D Ultrasound	3140954	USS-SAR/C3U	Sonoace R7	Samsung	2019-08-03	2024-08-03	Cairo hospital	3	2	Obstetrics and Gynecology	None	3D-4D Ultrasound_7.pdf
8	CARDIOHELP	5320187		CARDIOHELP System	MAQUET			Cairo hospital	2	1	Cardiology	2020-04-20	CARDIOHELP_8.pdf
9	Tourniquet	6740587	4000	A.T.S. 4000 Tourniquet Systems	zimm			Cairo hospital	3	1	Operating Theater	None	Tourniquet_9.pdf
10	Heart-Lung machine	5940687	HL 20	HL 20 Vario Flex	MAQUET	2013-05-21	2020-05-21	Cairo hospital	3	1	Operating Theater	None	Heart-Lung machine_10.pdf
11	Ventilator	8957157	SVM950	Servo-i Ventilator	MAQUET	2012-05-19	2016-05-19	Cairo hospital	1	1	ICU	None	Ventilator_11.pdf
12	Vital signs monitor	2009807	VS30	EarlyVue	Philips	2019-09-08	2022-09-08	Cairo hospital	3	3	ICU	None	Vital signs monitor_12.pdf
13	Electric steam sterilizer	2190787	SCF284 03	Philips Arent 3-in-1 electric steam sterilizer	Philips	2017-04-11	2020-04-11	Cairo hospital	1	2	Central sterile services department	None	Electric steam sterilizer_13.pdf
14	Anesthesia Machine	9812345	GDOA847	GE Datex Ohmeda Aisys	Soma Tech Intf	2020-03-18	2022-03-18	Cairo hospital	3	1	Operating Theater	None	Anesthesia machine_14.pdf
15	Cardiograph	5463127	TC70	PageWriter	Philips	2017-05-06	2019-05-06	Cairo hospital	2	2	Cardiology	None	Cardiograph_15.pdf

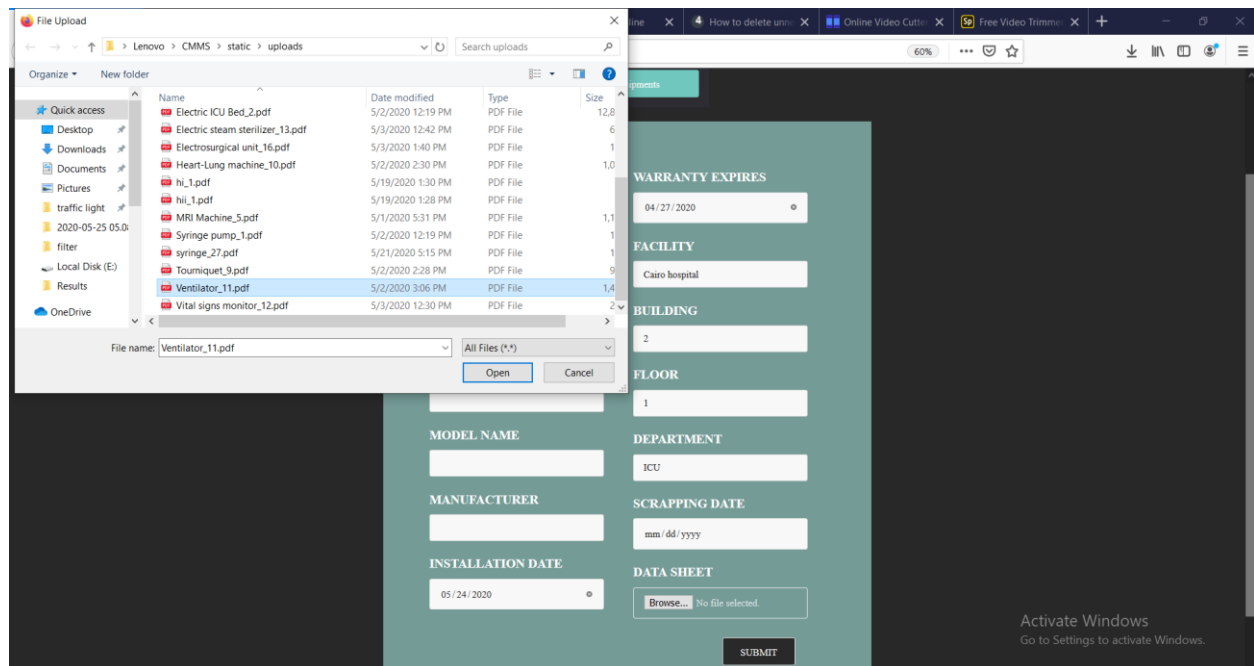
Activate Windows
Go to Settings to activate Windows.



2.2 Add new equipment:

We can add a new equipment by filling the following for we can also upload a pdf data sheet while adding the equipment.

A screenshot of a web application form titled "Edit Equipments". The form is a light blue overlay on a dark background. It contains two columns of input fields. The left column includes fields for "ASSET ID" (value: 28), "NAME" (value: ventilator), "SERIAL NUMBER" (value: 4123565), "MODEL NUMBER" (empty), "MODEL NAME" (empty), "MANUFACTURER" (empty), and "INSTALLATION DATE" (value: 05/24/2020). The right column includes fields for "WARRANTY EXPIRES" (value: 04/27/2020), "FACILITY" (value: Cairo hospital), "BUILDING" (value: 2), "FLOOR" (value: 1), "DEPARTMENT" (value: ICU), "SCRAPPING DATE" (value: mm/dd/yyyy), and "DATA SHEET" (with a "Browse..." button and the text "No file selected"). A "SUBMIT" button is located at the bottom right of the form. An "Activate Windows" watermark is visible in the bottom right corner of the screen.



26	Portable X-Ray	1362149	Optima	XR200MAX	Philips	2016-03-01	2020-03-01	Cairo hospital	2	1	Radiology	None	Portable X-Ray_26.pdf
27	Syringe	455				None	None	Cairo hospital	0	0	ICU	None	Syringe_27.pdf
28	ventilator	4123565				2020-05-24	2020-04-27	Cairo hospital	2	1	ICU	None	ventilator_28.pdf

When we try to add an existing equipment we get a message that it is already existed:

The screenshot shows a web application interface with a green error message at the top: "This ID already exists!". Below the message are navigation buttons: Home, View Equipments, Add new Equipments, and Edit Equipments. A form for adding new equipment is displayed, with fields for Asset ID (28), Name (ventilator), Serial Number, Model Number, Model Name, Manufacturer, Warranty Expires, Facility, Building, Floor, Department, and Scrapping Date. An "Activate Windows" watermark is visible in the bottom right corner.

2.3 Edit an existed equipment:

By entering the equipment ID we can edit it:

Home View Equipments Add new Equipments

Edit Equipments

ASSET ID * BUILDING

28 1

INSTALLATION DATE FLOOR

04/27/2020 2

WARRANTY EXPIRES DEPARTMENT

03/24/2021 ICU

FACILITY SCRAPPING DATE

Cairo hospital branch 1 mm/dd/yyyy

SUBMIT

Activate Windows
Go to Settings to activate Windows.

27	Syringe	455				None	None	Cairo hospital	0	0	ICU	None	Syringe_27.pdf
28	ventilator	4123565				2020-04-27	2021-03-24	Cairo hospital branch 1	1	2	ICU	None	ventilator_28.pdf

When we try to edit an equipment by entering a non-existing asset ID we get a message:

This Asset ID does not exist!

Home View Equipments Add new Equipments

Edit Equipments

ASSET ID * BUILDING

28

INSTALLATION DATE FLOOR

mm/dd/yyyy

WARRANTY EXPIRES DEPARTMENT

mm/dd/yyyy

FACILITY SCRAPPING DATE

mm/dd/yyyy

SUBMIT

Activate Windows
Go to Settings to activate Windows.

3. [Inventory Icon:](#)

In this icon we can view the spare parts of each equipment, add a new part or edit an existing part.

3.1 View parts

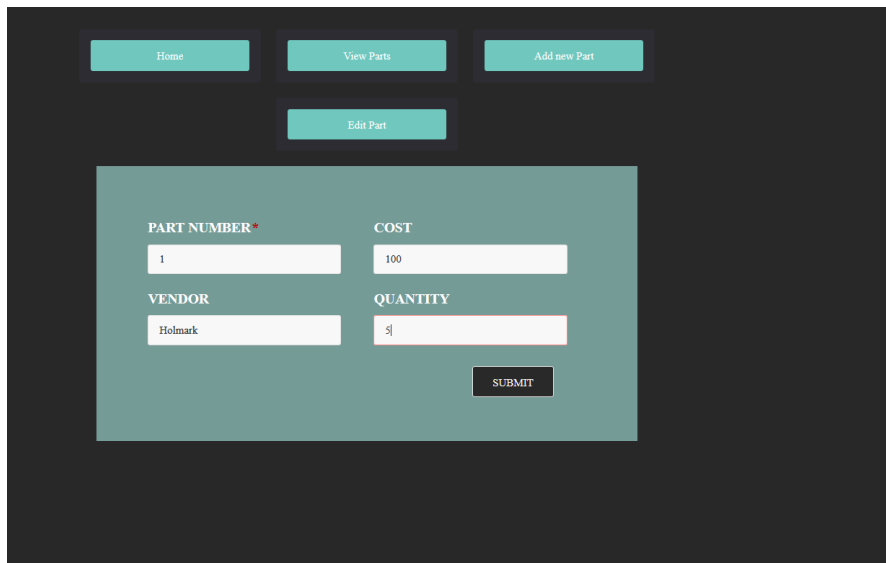
When we click on the view parts icon we can see the parts table, we can also enter a part name and search for it.



The screenshot shows a web application interface with a dark background. At the top, there are four buttons: 'Home', 'View Parts', 'Add new Part', and 'Edit Part'. Below these buttons is a search bar with the label 'Part Name' and a 'Search' button. The main content area displays a table with the following data:

Part_Number	Name	Asset_ID	Vendor	Cost_USD	Quantity	Asset_Name
10128486	QUENCH ELBOW ASSY-FLANGED	5	siemens	435	4	MRI Machine
10128499	Aux. Vent blank(BD END)	5	siemens	640	8	MRI Machine
10128723	Aux. Vent Blank(elbow end)	5	siemens	270	15	MRI Machine
10128733	De-Mountable pin fitting kit	5	siemens	890	1	MRI Machine
10128734	QV elbow fitting kit	5	siemens	2700	1	MRI Machine
10128742	air and sea Freight assy	5	siemens	750	5	MRI Machine
10128924	Li battery	5	siemens	250	10	MRI Machine
10128974	de-coupler fitting kit	5	siemens	375	1	MRI Machine
10129376	4k filtered PRV adapter	5	siemens	360	6	MRI Machine

An 'Activate Windows' watermark is visible in the bottom right corner of the screenshot.



The screenshot shows a web application interface with a dark background. At the top, there are three buttons: 'Home', 'View Parts', and 'Add new Part'. Below these buttons is a button labeled 'Edit Part'. The main content area displays a form with the following fields:

PART NUMBER *

COST

VENDOR

QUANTITY

SUBMIT

Home

View Parts

Add new Part

Edit Part

Part Name

QV elbow fitting kit

Search

Part_Number	Name	Asset_ID	Vendor	Cost_USD	Quantity	Asset_Name
10128734	QV elbow fitting kit	5	siemens	2700	1	MRI Machine

3.2 Add new part

Home

View Parts

Add new Part

Edit Part

PART NUMBER*

1

VENDOR

MAQUET

NAME

new part

COST

50

ASSET ID*

10

QUANTITY

2

SUBMIT

Home

View Parts

Add new Part

Edit Part

Part Name

Pick Part Name

Search

Part_Number	Name	Asset_ID	Vendor	Cost_USD	Quantity	Asset_Name
1	new part	10	MAQUET	50	2	Heart-Lung machine
10128486	QUENCH ELBOW ASSY-FLANGED	5	siemens	435	4	MRI Machine
10128499	Aux. Vent blank(BD END)	5	siemens	640	8	MRI Machine
10128722	Aux. Vent Blank/flanged	5	siemens	270	16	MRI Machine

This Part Number already exists!

Home

View Parts

Add new Part

Edit Part

PART NUMBER *

1

NAME

new part

ASSET ID *

10

VENDOR

COST

QUANTITY

SUBMIT

Activate Windows

Go to Settings to activate Windows.

3.3 Edit an existing part:

When we try to edit a non-existing part we get a message:

The screenshot displays a web application interface for editing a part. At the top, there are four buttons: 'Home', 'View Parts', 'Add new Part', and 'Edit Part'. Below these buttons is a form with the following fields:

- PART NUMBER***: A text input field containing the value '2'.
- COST**: A text input field containing the value '55'.
- VENDOR**: A text input field containing the value 'MAQUET'.
- QUANTITY**: An empty text input field.

A 'SUBMIT' button is located at the bottom right of the form. Below the form, there is a green error message bar that reads: 'This Part Number does not exist!'. At the bottom of the page, there is a navigation bar with the same four buttons as at the top.

4.Report Icon:

4.1 Inventory report:

Home

Work Orders

Equipment History

Inventory

Inventory

Asset ID

5

Vendor

siemens

Cost From

50

To

2000

x

Search

DATE
2020-05-25

Inventory report

DATE
2020-05-25

Part_Number	Name	Asset_ID	Vendor	Cost_USD	Quantity
10128486	QUENCH ELBOW ASSY-FLANGED	5	siemens	435	4
10128499	Aux. Vent blank(BD END)	5	siemens	640	8
10128723	Aux. Vent Blank(elbow end)	5	siemens	270	15
10128733	De-Mountable pin fitting kit	5	siemens	890	1
10128742	air and sea Freight asy	5	siemens	750	5
10128924	Li battery	5	siemens	250	10
10128974	de-coupler fitting kit	5	siemens	375	1
10129376	4k filtered PRV adapter	5	siemens	360	6
10129669	OR98 pipe set kit	5	siemens	500	3
10129671	FCL pin kit	5	siemens	2000	2
10129672	quench valve	5	siemens	1500	1

4.2 Work orders report:

Home

Work Orders

Equipment History

Inventory

Work Orders

Asset ID

1

Status

Completed

Repair / PM

PM

Creation date

From

mm/dd/yyyy

To

mm/dd/yyyy

Due date

From

mm/dd/yyyy

To

mm/dd/yyyy

Search

DATE

2020-05-25

Work orders report

D

2020

Order_number	Asset_ID	Name	Status	Creation__date	Repair/PM	Due_date	PM_date	PM_frequency	Priority	Description	Repair_cost	Department	Technician SSN	Technician phone	Technician Name
1	1	Inspection, PM	Completed	Wed, 15 Apr 2020 00:00:00 GMT	PM	Fri, 01 May 2020 00:00:00 GMT	Fri, 01 May 2020 00:00:00 GMT	Monthly	Low	Checked power, battery, alarms, tubes, cleaning and calibration		ICU	2147483647	101234798	Ahmed
1	1	Inspection, PM	Completed	Wed, 15 Apr 2020 00:00:00 GMT	PM	Fri, 01 May 2020 00:00:00 GMT	Fri, 01 May 2020 00:00:00 GMT	Monthly	Low	Checked power, battery, alarms, tubes, cleaning and calibration		ICU	1365987450	1289751264	Khaled
1	1	Inspection, PM	Completed	Wed, 15 Apr 2020 00:00:00 GMT	PM	Fri, 01 May 2020 00:00:00 GMT	Fri, 01 May 2020 00:00:00 GMT	Monthly	Low	Checked power, battery, alarms, tubes, cleaning and calibration		ICU	546896213	1111647852	Ashraf
15	1	Inspection, PM	Completed	Sat, 22 Feb 2020 00:00:00 GMT	PM	Sun, 01 Mar 2020 00:00:00 GMT	Sun, 01 Mar 2020 00:00:00 GMT	Monthly	Low	Check power, battery, alarms, tubes, cleaning and calibration		ICU	None	None	None

4.3 Equipment history report:

Home

Work Orders

Equipment History

Inventory

Equipment History

Equipment

2100587

×

Search

Syringe pump

Name:

Syringe pump

Manufacturer:

Holmark

Model:

SPLP2

Installation Date:

Fri, 01 Feb 2019 00:00:00 GMT

Serial Number:

2100587

Asset Code:

1

Department:

ICU

Location:

Building 1, Floor 1

Frequency of PM:

Monthly

Warranty Expiration:

Thu, 01 Feb 2024 00:00:00 GMT

Completed Work Orders				
Order_number	Repair/PM	Completion date	Description	Repair_cost
1	PM	Fri, 01 May 2020 00:00:00 GMT	Checked power, battery, alarms, tubes, cleaning and calibration	
15	PM	Sun, 01 Mar 2020 00:00:00 GMT	Check power, battery, alarms, tubes, cleaning and calibration	
16	PM	Wed, 01 Apr 2020 00:00:00 GMT	Check power, battery, alarms, tubes, cleaning and calibration	

Back

Home

5. Work order Icon:

In the workorder icon a user can view current workorder in the database, and search for them by order number, the user can also add a new order or edit an existing one also a user can view today's pm orders.

5.1 view and search:

Once the user clicks on the view workorder button he equipment table will appear

Home

View workOrder

Add new workOrder

Edit workOrder

Today's PM

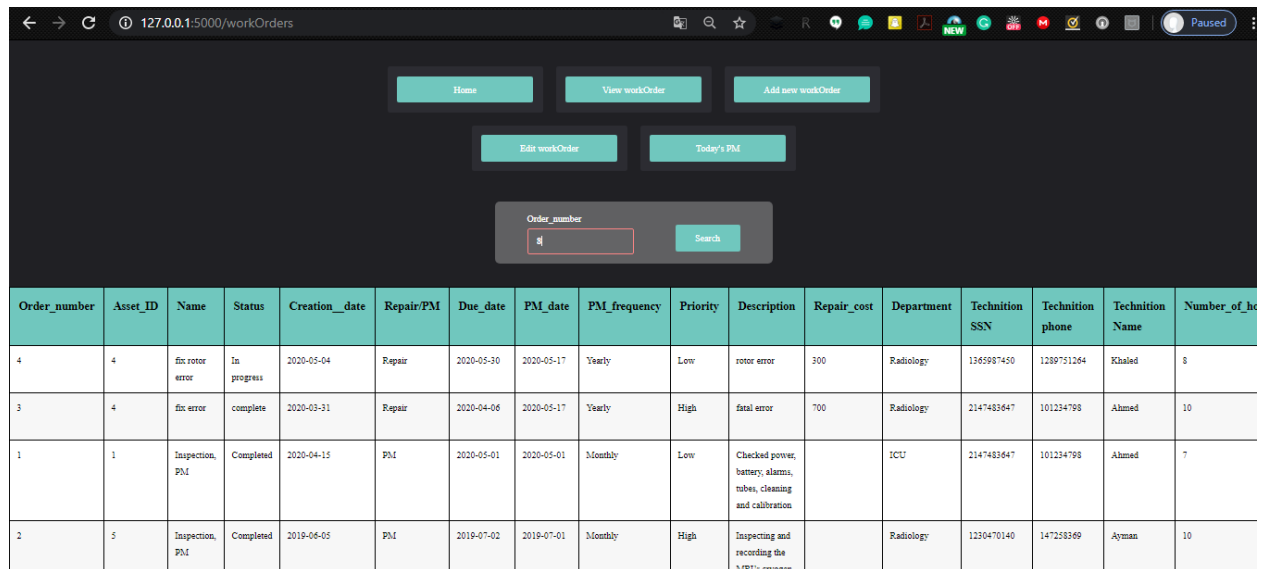
Order_number

Pick Order_number

Search

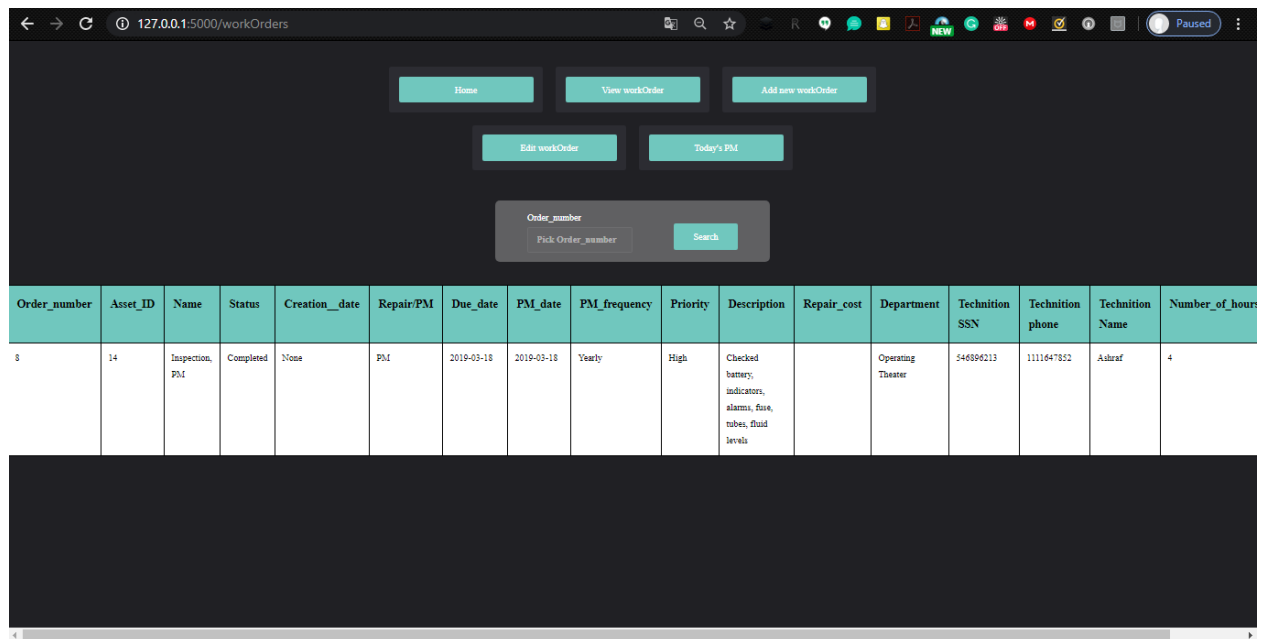
Order_number	Asset_ID	Name	Status	Creation__date	Repair/PM	Due_date	PM_date	PM_frequency	Priority	Description	Repair_cost	Department	Technition SSN	Technition phone	Technition Name	Number_of_ho
4	4	fix rotor error	In progress	2020-05-04	Repair	2020-05-30	2020-05-17	Yearly	Low	rotor error	300	Radiology	1365987450	1289751264	Khaled	8
3	4	fix error	complete	2020-03-31	Repair	2020-04-08	2020-05-17	Yearly	High	final error	700	Radiology	2147483647	101234798	Ahmed	10
1	1	Inspection, PM	Completed	2020-04-15	PM	2020-05-01	2020-05-01	Monthly	Low	Checked power, battery, alarms, tubes, cleaning and calibration		ICU	2147483647	101234798	Ahmed	7
2	5	Inspection, PM	Completed	2019-06-05	PM	2019-07-02	2019-07-01	Monthly	High	Inspecting and recording the MFE's cryogen levels		Radiology	1230470140	147258369	Ayman	10

The user can search for a certain order by inserting order number: for example searching for order number 8



Order_number	Asset_ID	Name	Status	Creation_date	Repair/PM	Due_date	PM_date	PM_frequency	Priority	Description	Repair_cost	Department	Technition SSN	Technition phone	Technition Name	Number_of_ho
4	4	fix rotor error	In progress	2020-05-04	Repair	2020-05-30	2020-05-17	Yearly	Low	rotor error	300	Radiology	1365987450	1289751264	Khaled	8
3	4	fix error	complete	2020-03-31	Repair	2020-04-06	2020-05-17	Yearly	High	fatal error	700	Radiology	2147483647	101234798	Ahmed	10
1	1	Inspection, PM	Completed	2020-04-15	PM	2020-05-01	2020-05-01	Monthly	Low	Checked power, battery, alarms, tubes, cleaning and calibration		ICU	2147483647	101234798	Ahmed	7
2	5	Inspection, PM	Completed	2019-06-05	PM	2019-07-02	2019-07-01	Monthly	High	Inspecting and recording the MGR's crooves		Radiology	1230470140	147258369	Ayman	10

Then:



Order_number	Asset_ID	Name	Status	Creation_date	Repair/PM	Due_date	PM_date	PM_frequency	Priority	Description	Repair_cost	Department	Technition SSN	Technition phone	Technition Name	Number_of_hours
8	14	Inspection, PM	Completed	Nase	PM	2019-03-18	2019-03-18	Yearly	High	Checked battery, indicators, alarms, fuse, tubes, fluid levels		Operating Theater	546896213	1111647852	Ahraf	4

5.2 Add new work order: We can add a new work order by filling the following:

The screenshot displays a web application interface for managing work orders. At the top, there is a navigation bar with three buttons: "Home", "View WorkOrders", and "Add new WorkOrder". Below this, a secondary navigation bar contains two buttons: "EditOrder" and "Today's PM". The main content area is a form for adding a new work order, featuring the following fields:

- ASSET ID***: A text input field.
- ORDER_NUMBER***: A text input field.
- NAME**: A text input field.
- STATUS**: A text input field.
- REPAIR/PM**: A text input field with the value "Repair".
- DUE_DATE**: A date input field with the placeholder "mm/dd/yyyy" and a calendar icon.
- CREATION_DATE**: A date input field with the placeholder "mm/dd/yyyy" and a calendar icon.
- PM_DATE**: A date input field with the placeholder "mm/dd/yyyy" and a calendar icon.
- PM_FREQUENCY**: A text input field.
- PRIORITY**: A text input field with the value "High".
- DESCRIPTION**: A text input field.
- DEMAND_COST**: A text input field.

A "SUBMIT" button is located at the bottom right of the form.

5.3 Edit an existed work order:

For example if we want to edit work order number 5:

Pick Order_number Search																
Order_number	Asset_ID	Name	Status	Creation_date	Repair/PM	Due_date	PM_date	PM_frequency	Priority	Description	Repair_cost	Department	Technition SSN	Technition phone	Technition Name	Number_of_ho
4	4	fix rotor error	In progress	2020-05-04	Repair	2020-05-30	2020-05-17	Yearly	Low	rotor error	300	Radiology	1365987450	1289751264	Khaled	8
3	4	fix error	complete	2020-03-31	Repair	2020-04-06	2020-05-17	Yearly	High	fatal error	700	Radiology	2147483647	101234798	Ahmed	10
1	1	Inspection, PM	Completed	2020-04-15	PM	2020-05-01	2020-05-01	Monthly	Low	Checked power, battery, alarms, robes, cleaning and calibration		ICU	2147483647	101234798	Ahmed	7
2	5	Inspection, PM	Completed	2019-06-05	PM	2019-07-02	2019-07-01	Monthly	High	Inspecting and recording the ICU's cryogen		Radiology	1230470140	147258369	Ayman	10
5	1	fix	not started	2020-05-02	Repair	2020-05-14	2020-06-02	yearly	High	Guide Rod Collar Clamp of the syringe pump is broke	1000	ICU	546598213	1111647852	Ahraf	8
6	3	Inspection, PM	Not Started	2020-05-08	PM	2020-05-20	2020-06-20	Yearly	High	Checking electrodes, battery, medication		ICU	652598751	100025487	Hany	8

127.0.0.1:5000/editOrder

Paused

HomeView WorkOrdersAdd new WorkOrder

EditOrderToday's PM

ORDER_NUMBER*

5

NAME

fix

STATUS

complete

REPAIR/PM

Repair

DUE_DATE

05/14/2020

CREATION_DATE

05/02/2020

PM_DATE

06/02/2020

PM_FREQUENCY

yearly

PRIORITY

High

DESCRIPTION

Guide Rod Collar Clamp of the syringe

DEMAND_COST

1000

SUBMIT

Then:

<div>Pick Order_number</div> <div>Search</div>																
Order_number	Asset_ID	Name	Status	Creation_date	Repair/PM	Due_date	PM_date	PM_frequency	Priority	Description	Repair_cost	Department	Technition SSN	Technition phone	Technition Name	Number_of_ho
4	4	fix rotor error	In progress	2020-05-04	Repair	2020-05-30	2020-05-17	Yearly	Low	rotor error	300	Radiology	1365987450	1289751264	Khaled	8
3	4	fix error	complete	2020-03-31	Repair	2020-04-06	2020-05-17	Yearly	High	fix error	700	Radiology	2147483647	101234798	Ahmed	10
1	1	Inspection, PM	Completed	2020-04-15	PM	2020-05-01	2020-05-01	Monthly	Low	Checked power, battery, alarms, tubes, cleaning and calibration		ICU	2147483647	101234798	Ahmed	7
2	5	Inspection, PM	Completed	2019-06-05	PM	2019-07-02	2019-07-01	Monthly	High	Inspecting and recording the MRI's cryogen		Radiology	1230470140	147258369	Ayman	10
5	1	fix	complete	2020-05-02	Repair	2020-05-14	2020-06-01		High	Guide Rod Collar Clamp of the syringe pump is broke	1000	ICU	546896213	1111647852	Ashraf	8

5.4 show today's pm work order:

User can view today's PMs on pressing this button .this screen shoot was taken on 23-5-2020

<div>Home</div> <div>View WorkOrders</div> <div>Add new WorkOrder</div> <div>EditOrder</div> <div>Today's PM</div>												
Order_number	Asset_ID	Name	Status	Creation_date	Repair/PM	Due_date	PM_date	PM_frequency	Priority	Description	Repair_cost	
2	5	Inspection, PM	Completed	2019-06-05	PM	2019-07-02	2020-05-23	Monthly	High	Inspecting and recording the MRI's cryogen levels		
1	1	Inspection, PM	Completed	2020-04-15	PM	2020-05-01	2020-05-23	Yearly	Low	Checked power, battery, alarms, tubes, cleaning and calibration		
18	13	Inspection, PM	Completed	2020-03-20	PM	2020-04-11	2020-04-11	Weekly	High	Checked and cleaned sensors, steam lines, replaced filter, verified temperature		