

CHAPTER FOUR

4-1 CMMS SOFTWARE:

Super CMMS is low cost software aims to documentation the maintenance processes and increase its efficiency. The system offers detailed database for employees, machines, Maintenance order, inventory, and work shifts.

The figure (4-1) below shows the login screen:



Figure (4-1) login screen

4-1-1 Login as manager:

Gives user full authorities to use all data, editing data, and adding users.

The manger file shows all features as in figure (4-2)

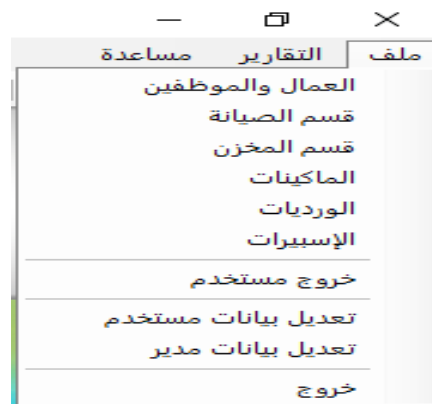


Figure (4-2) Login as manager

Adding, editing ,searching, and removing user's data as shown in figure(4-3) and Also the manager's data as shown in figure(4-4)

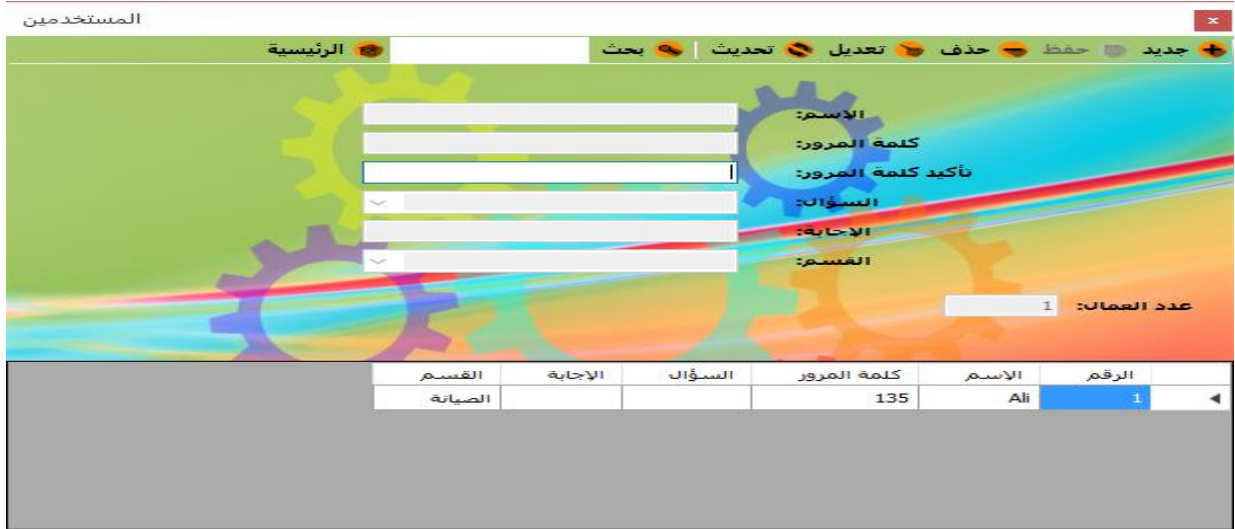


Figure (4-3) User editing



Figure (4-4) manger editing

4-1-2 Login as user:

Gives the users limit access only to the reports and maintenance order

As shown figure (4-5).



Figure (4-5) Login as user

4-1-3 Data entry:

1-Employers and workers data:

- Number.
- full name.
- date of birth.
- Address.
- Nationality.
- Gender.
- Date of appointment.
- Scientific qualifications.
- Department.
- Job.
- shift.

As shown in figure(4-6)



Figure (4-6) workers data

2- maintenance orders data contains:

- request date
- problem number
- request number
- problem type
- machine code
- machine name
- problem date
- shift
- problem time
- required maintenance
- name of shift chief
- technician name
- notification date
- notification time
- problem description
- problem cause
- presiders
- spare cod
- spare name
- spares number
- maintenance starting date
- maintenance starting time
- maintenance finishing date
- maintenance finishing time

As shown in figure(4-7)

طلب صيانة علاجية

وصف العطل

سبب العطل

الإجراءات المتخذة

كود الآسبتر

اسم الآسبتر

عدد الآسبترات

تاريخ المباشرة بالتصليح

وقت المباشرة بالتصليح

تاريخ الإنهاء من التصليح

وقت الإنهاء من التصليح

اسم المستشفى (قسم الإنتاج)

اسم مستنقود الصيانة

رقم العطل

رقم الطلب الصيانة

نوع العطل

كود الماكينة

اسم الماكينة

تاريخ العطل

الوردية

وقت العطل

المطلوب صيانتة

اسم رئيس الوردية

اسم الفني

تاريخ التبليغ

وقت التبليغ

توزيع الخانات طباعة

Figure (4-7) maintenance orders data

3- Inventory data contains:

- Serial number
- Inventory name
- Date
- Raw type
- Thickness(cm)
- Width
- Number
- Added
- Withdraw
- Balance
- Total

As shown in figure (4-8)

Figure (4-8) inventory data

4- Machines data contains:

- Machine code.
- Machine name.
- Use.
- Manufacturing date.
- Model.
- Operating date.

As shown in figure (4-9)

Figure (4-9) Machines data

4-2 Multicomputer System:

The integral computerized maintenance management system contained from several devices distributed in the different department. This device simultaneous by using distributed transactions as shown in figure (4-10).

Online Transaction Processing (OLTP) systems are being installed into business organizations at an increasing rate. These systems update database records in real-time at the moment of a business transaction, in this program when the technician enter a new work request or editing an old work request in his computer this change update immediately in the computer of the engineer. In contrast, there are Message Queue (MQ) systems that use less urgency to complete a transaction.

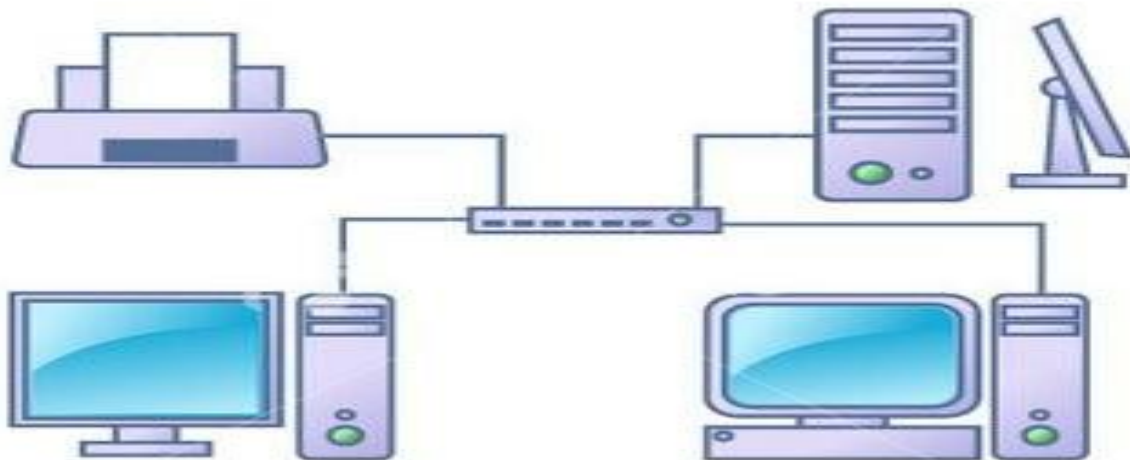


Figure (4-10) Multicomputer System

4-3 System Features:

Beside the main purposes of the system, it offers other features such as:

1. Print option:

The user can print the reports when needed as shown in figure (4-11)

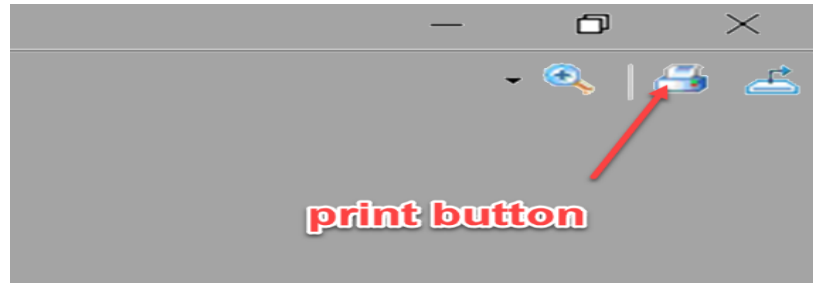


Figure (4-11) Print option

2. Search option:

The system also offers searching for anything related to CMMS as shown in figure (4-12)



Figure (4-12) Search option

3. Notifications:

The system notifies the user in the case of lacking in the spare parts inventory. As shown in figure (4-13)

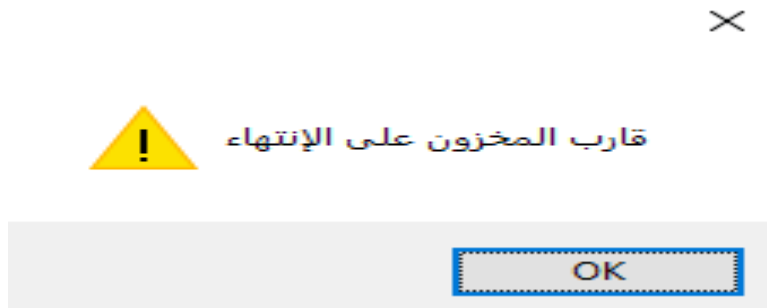


Figure (4-13) Notifications message

4. Sorting reports:

System offers the option of sorting reports according to machine number or work order number.

5. export button in reports:

Its allows users to export reports as picture, pdf, Microsoft word, Microsoft excel and rich text format as shown in figure (4-14)



Figure (4-14) export button

6. Zoom button in report As shown in figure (4-15)

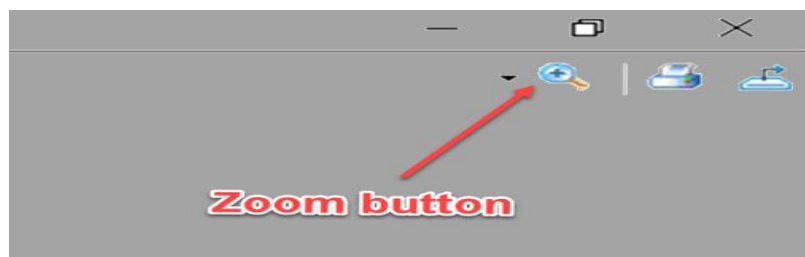


Figure (4-15) Zoom button