

بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِيْمِ
اللّٰهُمَّ اسْلِمْنَا مِنْ نَعْصَمٍ

السلام علیکم ورحمة الله وبركاته

Acknowledgement

In The Name Of Allah

*Shine Star Team , Welcome to you at
Zagazig University*

*Faculty of Computers & Informatics
Information System Department (ISD)*

*Thanks for every one helped and attempt to
help us for better work in maintenance
world.*

Maintenance Management System
Under Supervision of
Dr.Mohamed Abass Shouman

Project Staff :

- *Amal Abd El Khalek*
- *Basma Seif El Yazil*
- *Hanan Mohamed Abass*
- *Israa Abdel Rahman Ibrahim*
- *Heba Tallah El Said*

PROJECT OVERVIEW

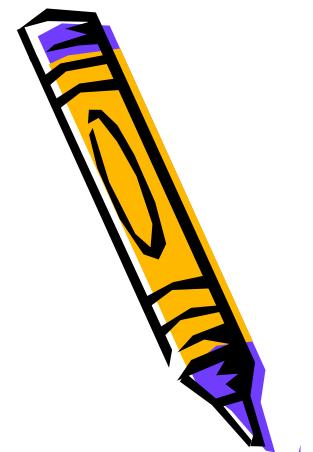
- *Maintenance department and its problems is too important for every manufacturing system , so we thought of this idea in our project to solve these problems*

Project Objectives :

- *Management of maintenance department would be easy to control.*
- *Increasing system productivity.*

Agenda

- 1- *Knowing more about machines history to facilitate communication with them.*
- 2- *Determine critical amount (reorder point) of each spare part before shortage occurrence.*
- 3- *Aid managers to perform preventive maintenance to reduce machines breakdowns.*
- 4- *Specify appropriate time for machines replacement.*



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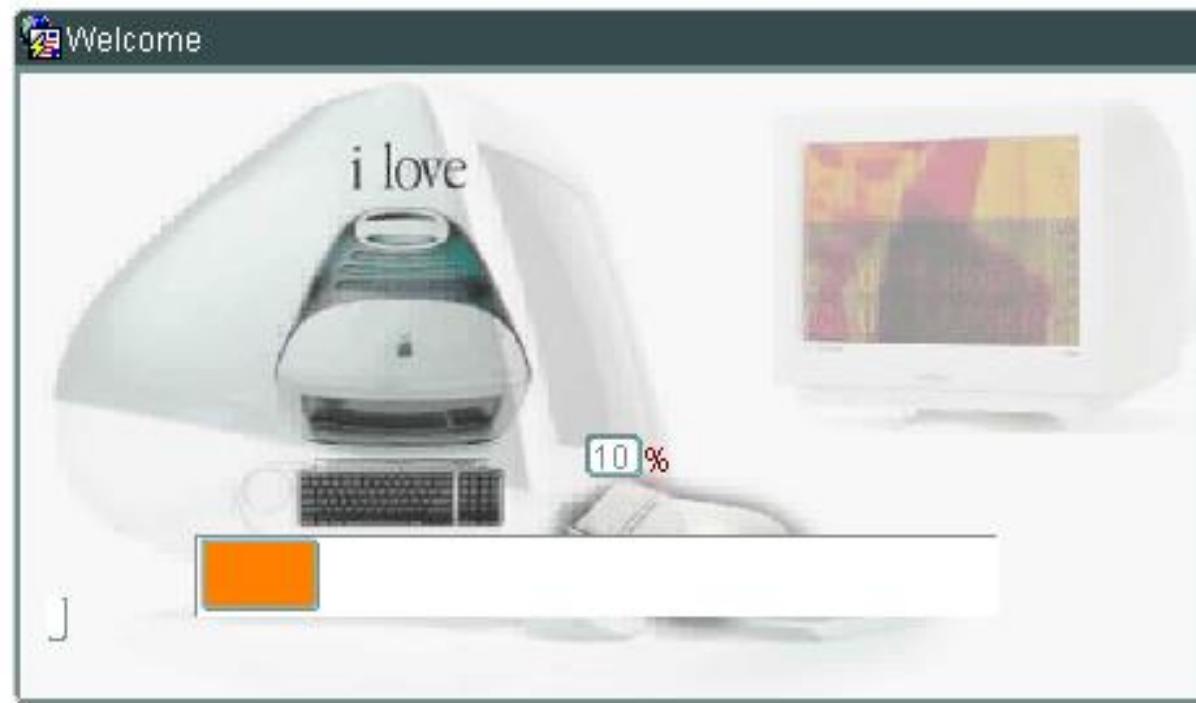
1- Reduction in amount of information needed about machines

So, building Database

- Comprises detailed information about system equipments and machines to help maintenance managers to:
- Display history of any machine for making Decisions (replenishment stock, preventive maintenance , replacement).



Progress Bar Form

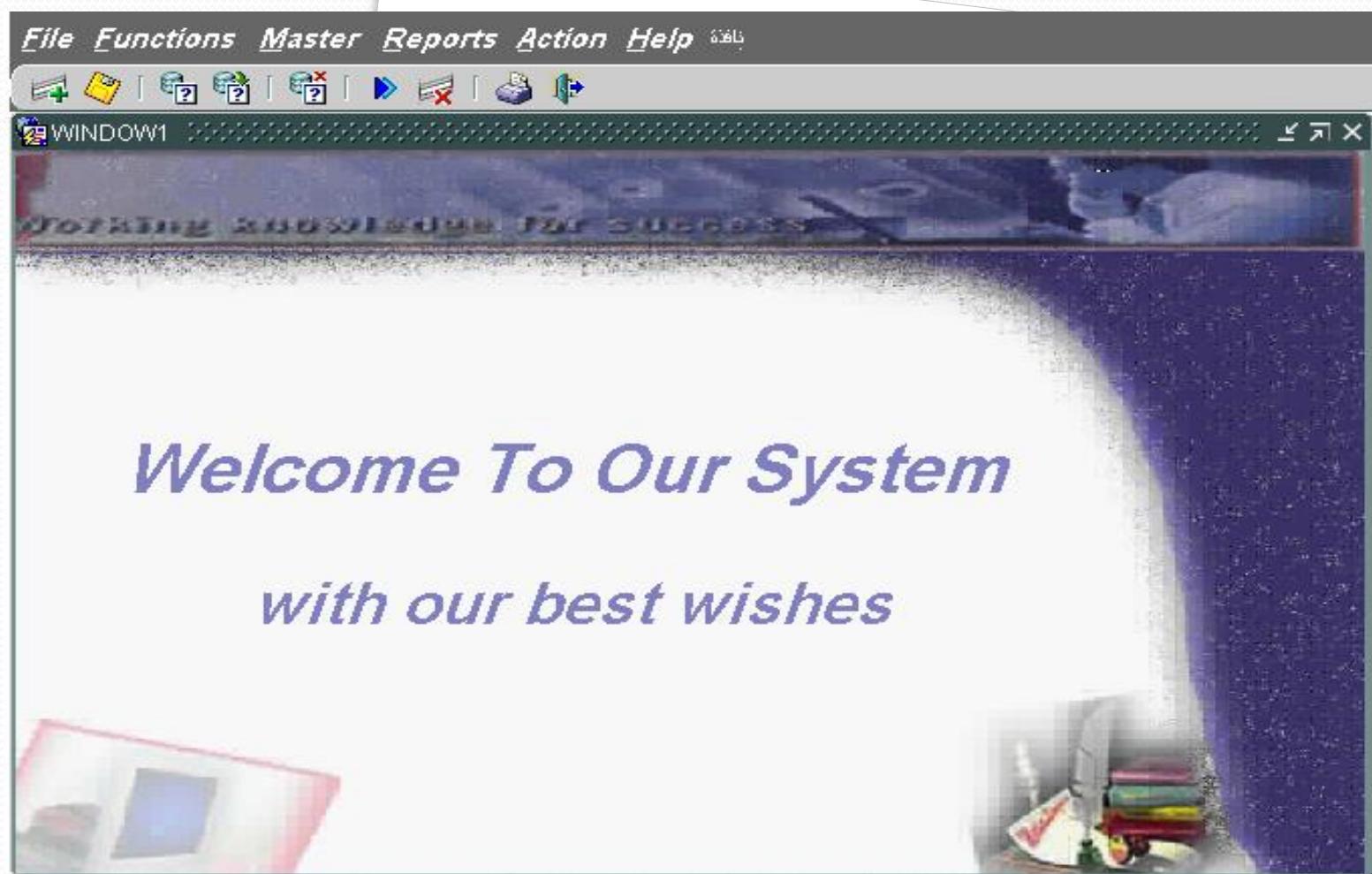


ORACLE

Welcome Form:



Interface Form



Main menu

File Functions Master Reports Action Help

Stock

Departments

Employees

Machines

Spareparts

Suppliers

Breakdowns

Work order

Repair Record

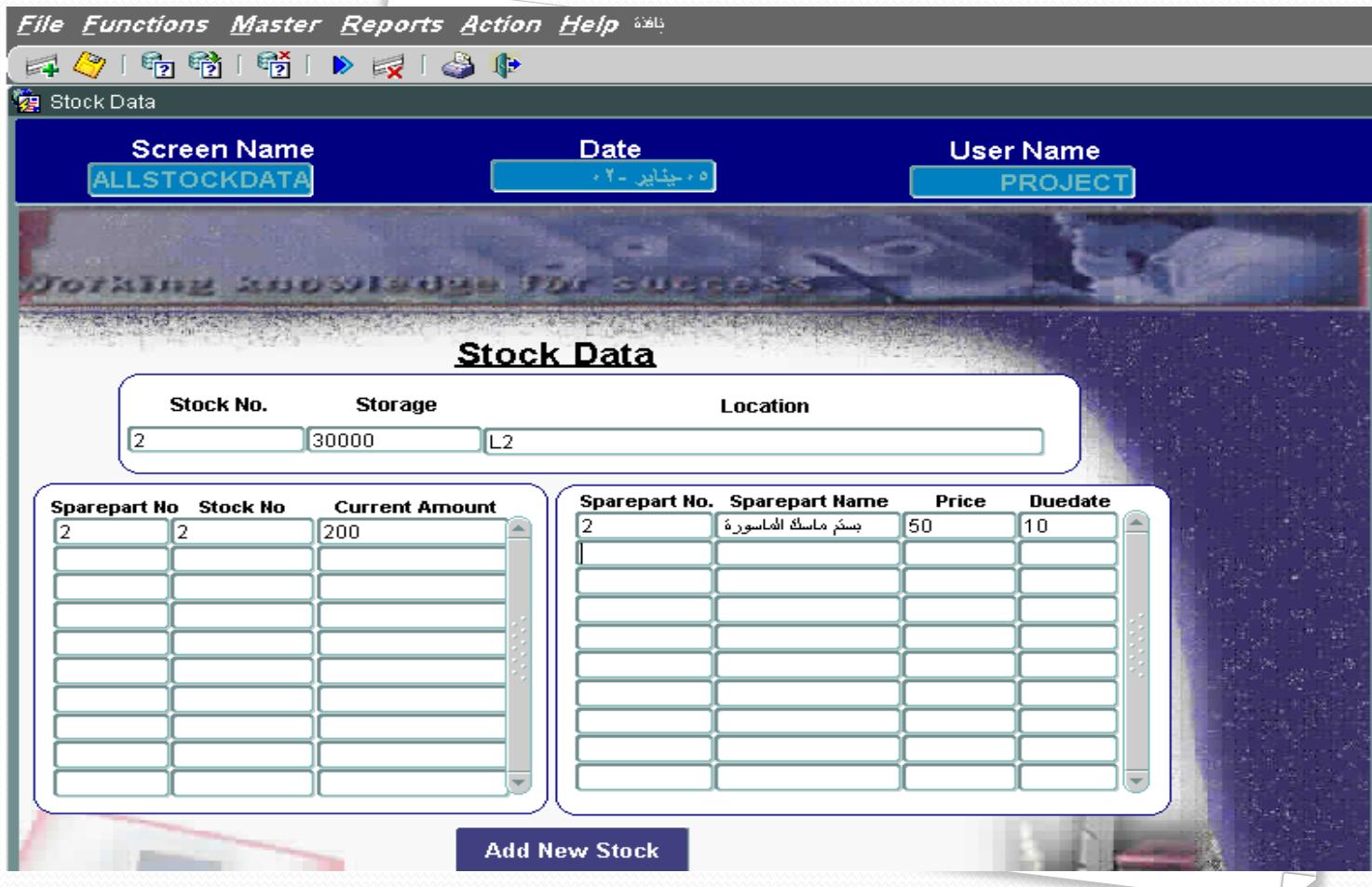


Welcome To Our System

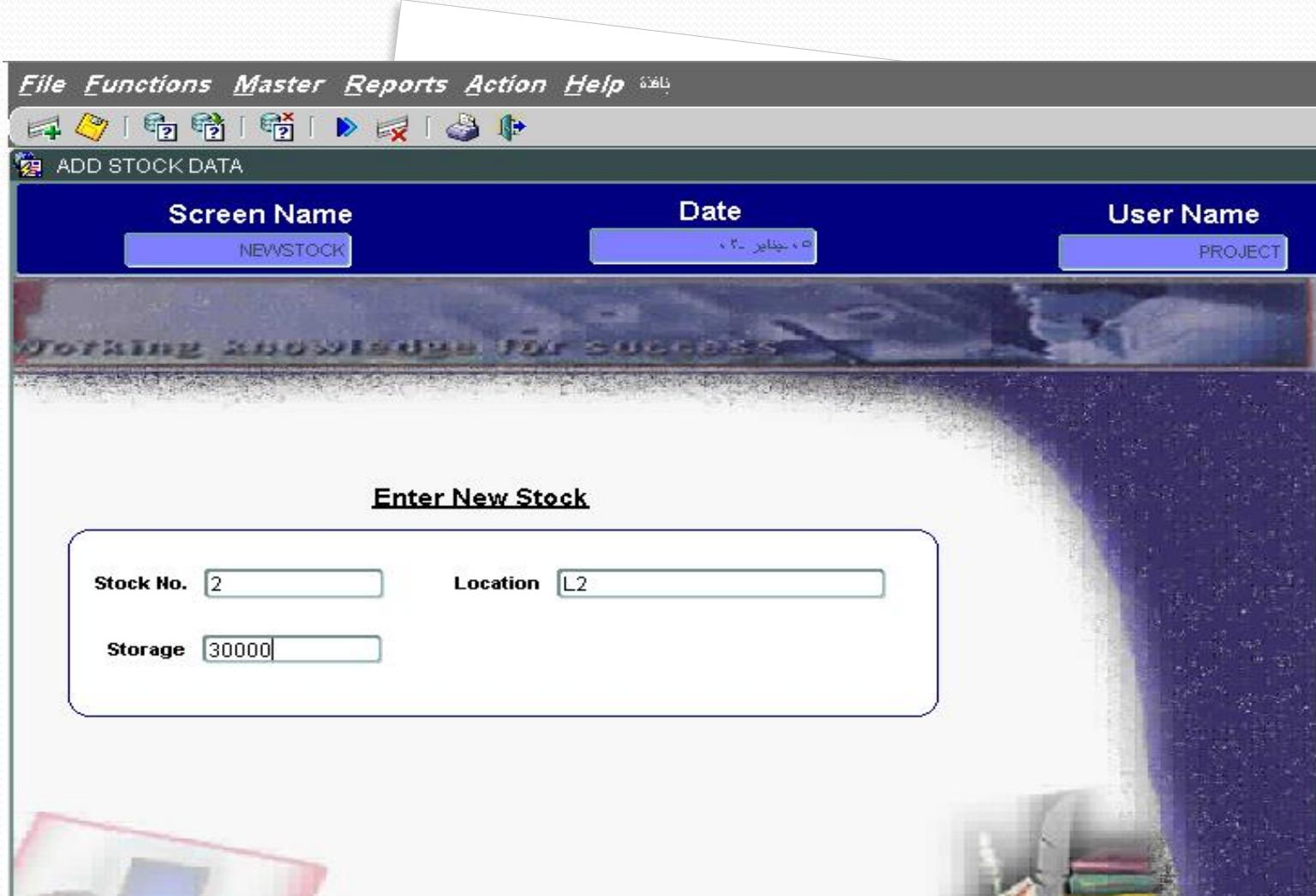
with our best wishes



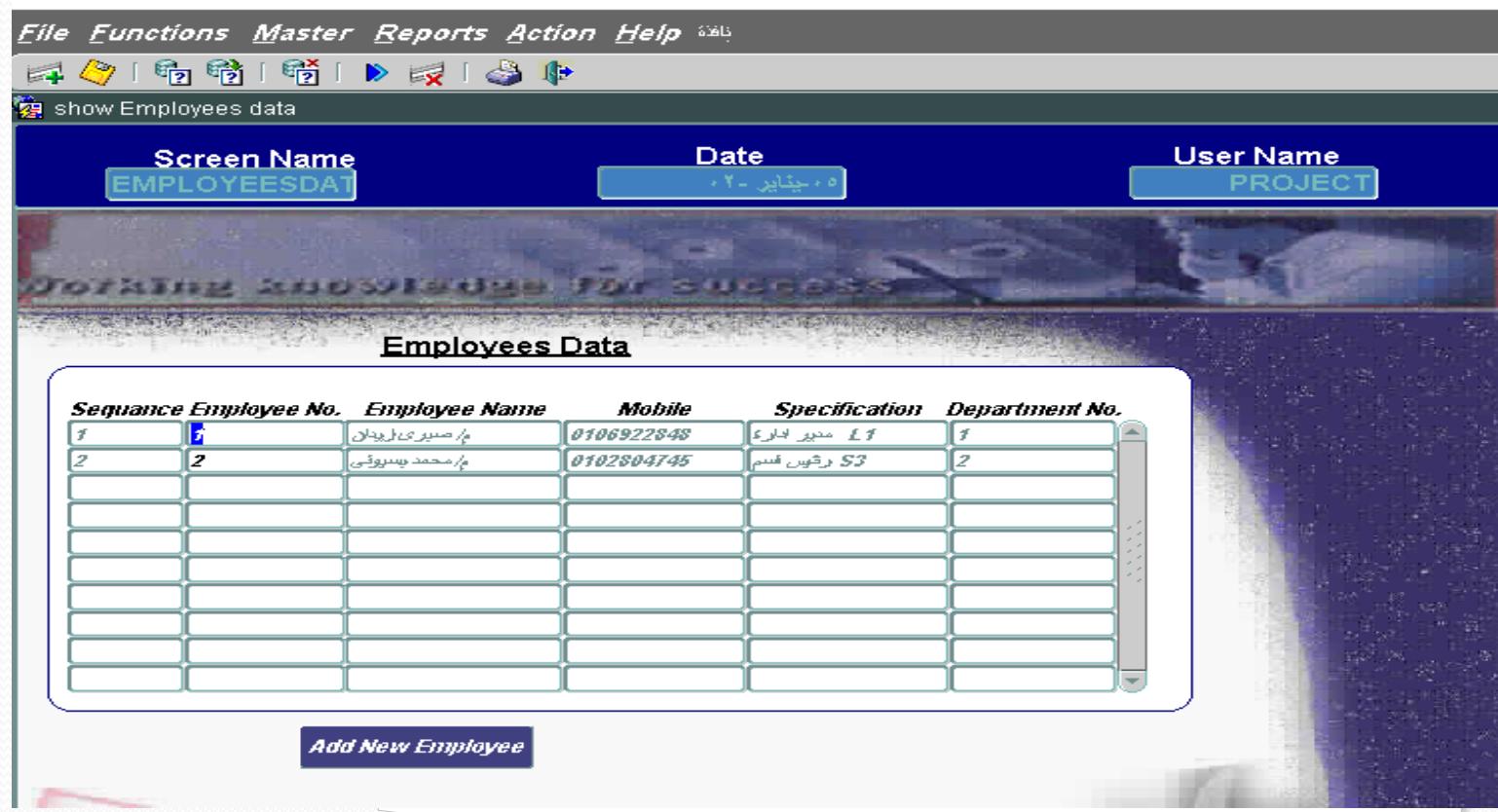
Show Stock Form:



Enter New Stock Form:



Show Employees Form:



Enter New Employee Form:

File Functions Master Reports Action Help

Enter New Employee

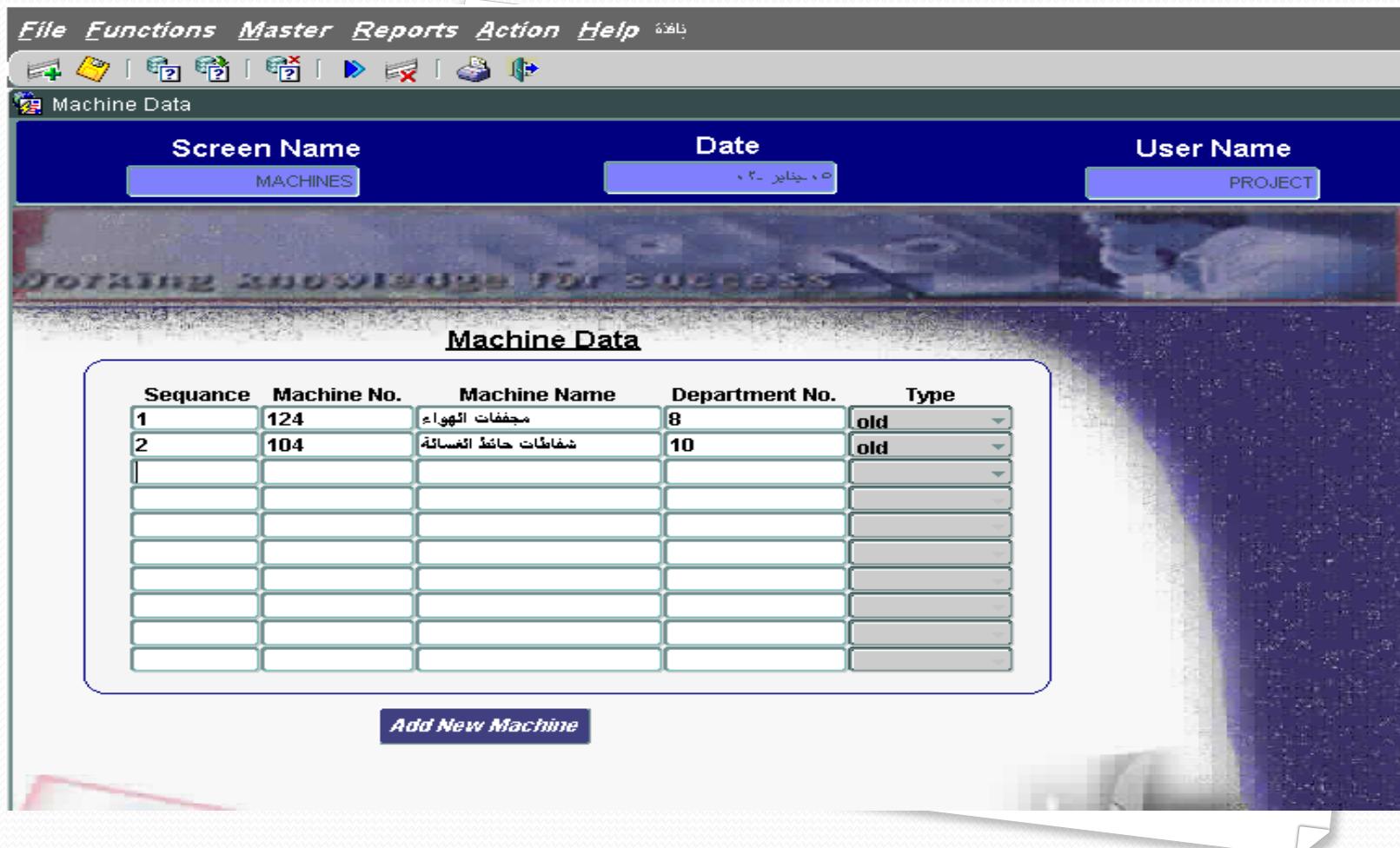
Screen Name	Date	User Name
EMPLOYEES	٢٠٠٣-١٠-٥	PROJECT

ENTERING RESOURCES FOR SUCCESS

Enter New Employee

Sequance	1	Department No.	1
Employee No.	1	Hiredate	10/01/2002
Employee Name	میری زبان	Workphone	02/38910046
Mobile	0106922848	Housephone	02/3714486
Specification	L1 مدير ادارة	Salary	1500
Address	عن الوحدة - امباقة - جيزة		

Show Machines Form:

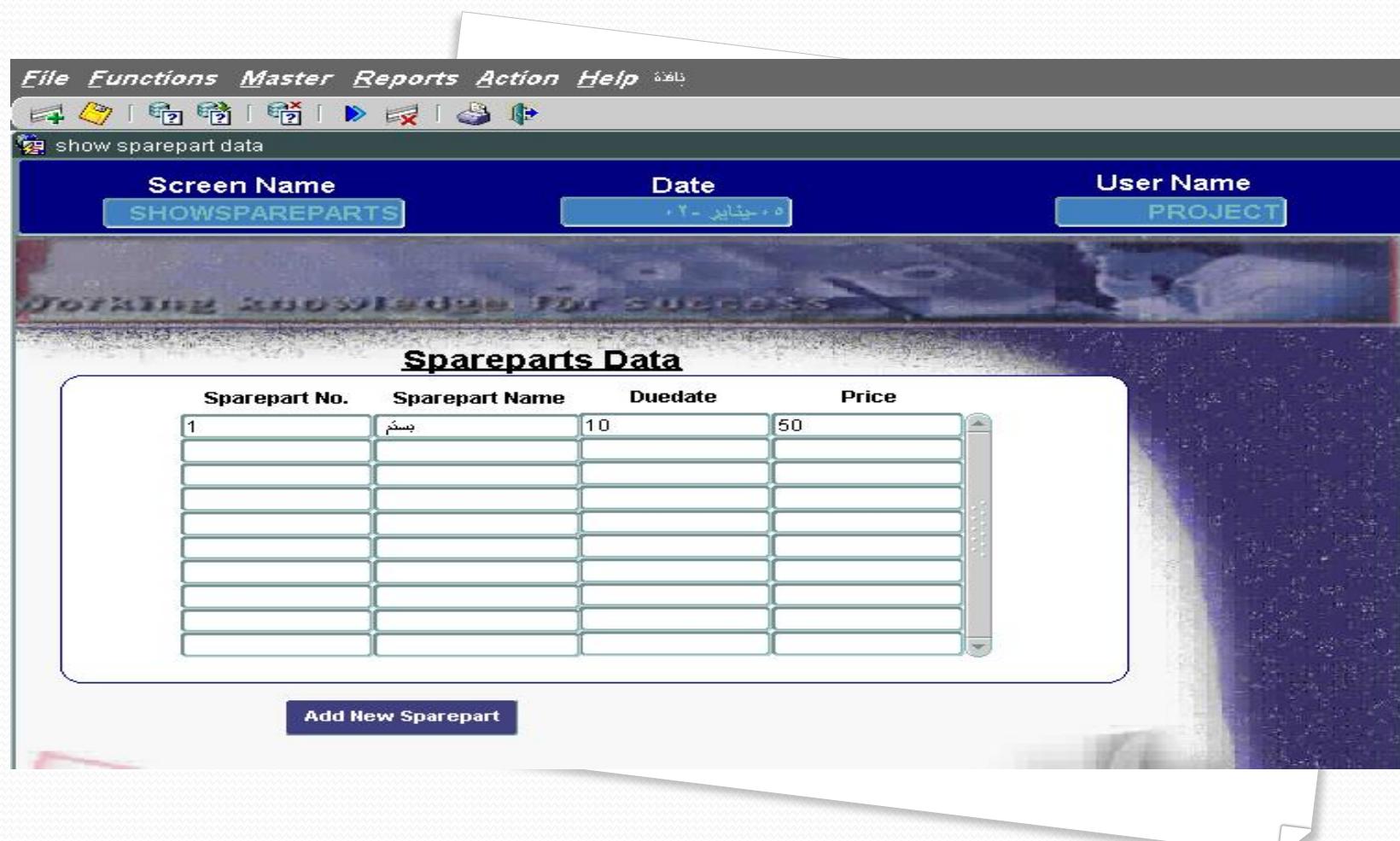


Enter New Machine Form:

The screenshot shows a Windows application window titled "Add new Machine". The menu bar includes "File", "Functions", "Master", "Reports", "Action", and "Help". The toolbar contains icons for file operations like Open, Save, Print, and Exit. The main title bar says "Add new Machine". The form has three header fields: "Screen Name" (set to "MACHINES"), "Date" (set to "٢٠١٣-٥-٢٤"), and "User Name" (set to "PROJECT"). Below the header is a banner with the text "WORKING TOGETHER FOR SUCCESS". The main input area is titled "Enter New Machine" and contains the following fields:

Sequence	3	Department No.	8
Machine No.	123	Use date	02/06/1993
Machine Name	مختبر الماء	Duedate	15
Purchase price	30000	Type	old

Show Spare parts Form:



Enter New Spare part Form:

File Functions Master Reports Action Help

Add New Supplier

Screen Name	Date	User Name
SPAREPARTS	٢٠٠١-٠١-١٥	PROJECT

Enter Sparepart Data

Sparepart No.	2	Sparepart Name	كونتاكتور
Price	12	Duedate	11

Sparepart No.	2	Stock No.	4
Withdrawal Amount	15	Input Date	01/01/2001
Use Date	05/01/2001	Current Amount	20

Show Suppliers Form:

The screenshot shows a Windows application window titled "Show Suppliers". The menu bar includes "File", "Functions", "Master", "Reports", "Action", "Help", and "Web". The toolbar contains icons for file operations like Open, Save, Print, and Exit. The main title bar says "Show Suppliers". The interface includes three input fields: "Screen Name" (SHOWSUPPLIERS), "Date" (٢٠١٣-١١-٢٤), and "User Name" (PROJECT). Below these is a large grid titled "Suppliers Data" with columns: Company No., Company Name, Fax, and Agent. The grid contains two rows of data:

Company No.	Company Name	Fax	Agent
1	ماندران	+20(02)33457281	هشام عدلي سليمان
3	daya group	+202 38324819	hisham selem

At the bottom left is a button labeled "Add New Supplier".

Enter New Supplier Form:

File Functions Master Reports Action Help

Add new supplier

Screen Name	Date	User Name
ENTERSUPPLIERS	٢٠١٣-١٠-٢٥	PROJECT

Enter New Supplier

Company No.	1	Company Name	مانفراك
Fax	+20(02)3345728	Email	hosam@yahoo.com
Phone No.	33026694	Agent	م/ حسام عبد الرحمن
Supplier Address	الزمالك - القاهرة - داخلى ١٩٢٦	Postalcode	123

Show Break downs Form:

Enter New Breakdown Form:

The screenshot shows a software interface with a menu bar at the top. The menu items are: File, Functions, Master, Reports, Action, Help, and a non-English character. Below the menu is a toolbar with various icons. A sub-menu bar displays "Add new Breakdown". The main window title is "Enter New Breakdown". Inside the window, there are three input fields: "Screen Name" containing "ENTERNEWBRE", "Date" containing "٢٠١٥ - مئاير - ٥", and "User Name" containing "PROJECT". Below these fields is a banner with the text "WORLDSIM: YOUR SOURCE FOR SUCCESS". The main form area contains three input fields: "Sequence" with value "1", "Break No." with value "1", and "Break Name" with value "كسر مسمار بطيء المفصن".

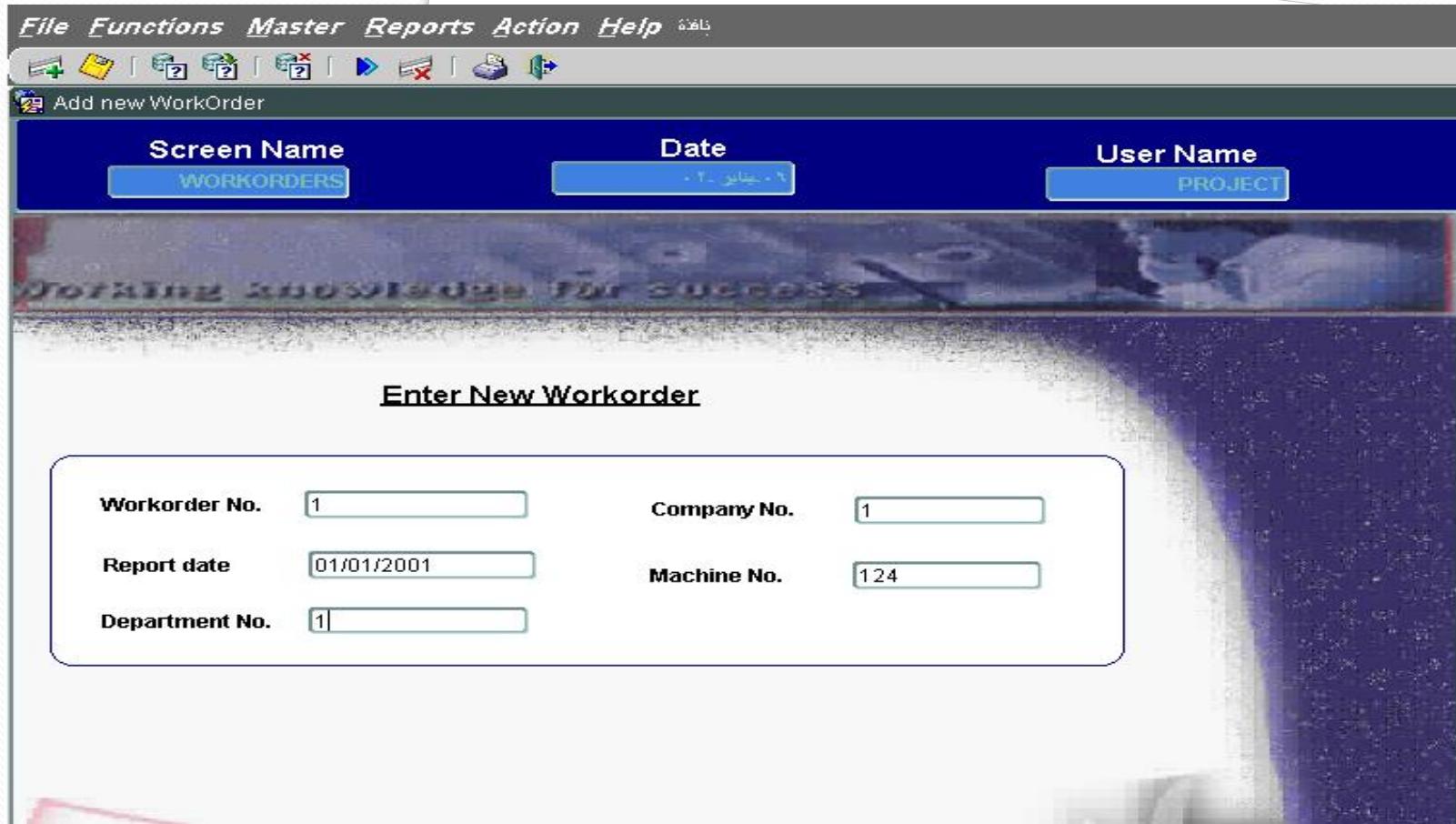
Screen Name	Date	User Name
ENTERNEWBRE	٢٠١٥ - مئاير - ٥	PROJECT

Enter New Breakdown

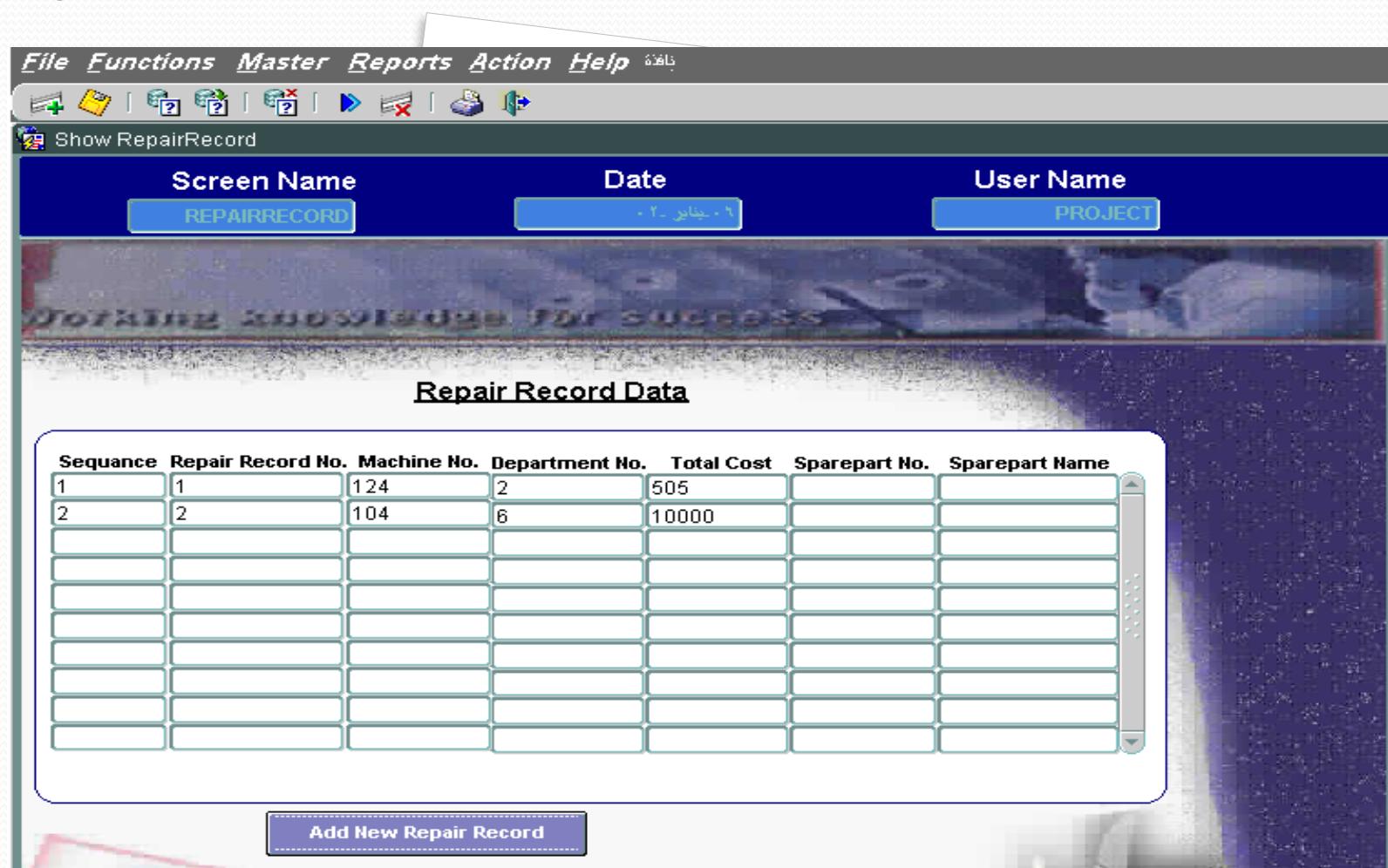
Sequence	
Break No.	1
Break Name	كسر مسمار بطيء المفصن

Enter New Work order Form:

To Enter New Work order Data, We Use This form :



Show Repair record Form:



Enter New Repair record Form:

File Functions Master Reports Action Help

Add new Repair record

Screen Name	Date	User Name
ENTERREPAIRRECOR	01/01/2001	PROJECT

RepairRecord Data

Repairrecord No.	1	Machine No.	124
Preventive No.	1	Department No.	2
Company No.	1	Start Date	01/01/2001
End Date	02/01/2001	Down Hours	48:30
What Achieved	فأه قلب بسم ماسك الماسورة		
Notes			

Show Departments Form:

File Functions Master Reports Action Help

SHOW DEPARTMENT

Screen Name	Date	User Name
DEPARTMENT	+ ٢ - سبتمبر	PROJECT

Department Data

Department No.	Departmen Name	Stock No.
2	withdraw	2
4	electric station	4
6	خطفه و ملابس اعمال اتصار	4
8	ثدام المخالطة	2
10	المكتف والمربي	4
1	فرانسيسك	4

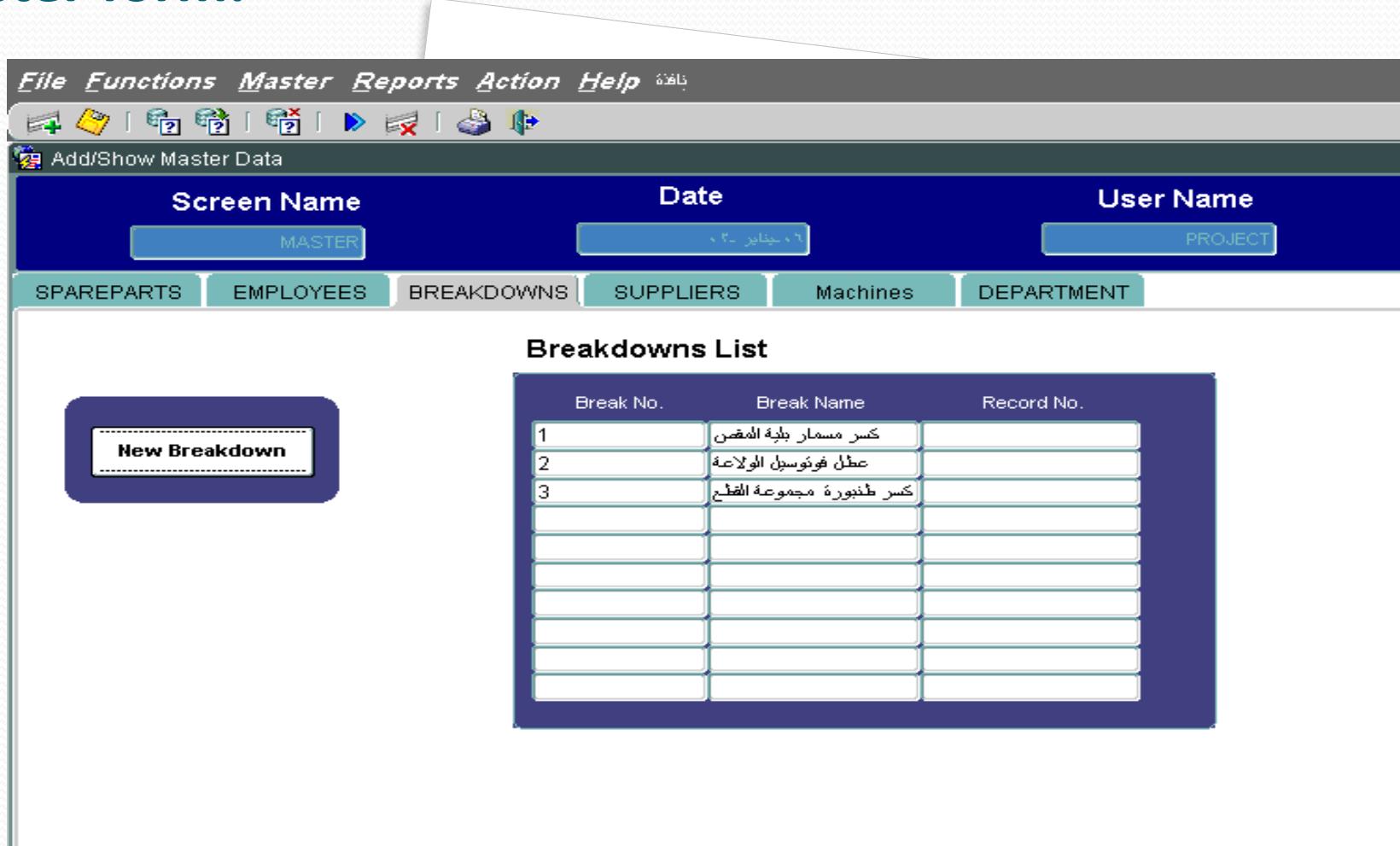
Add New Department

Enter New Department Form:

The screenshot shows a software interface titled "Add new DEPARTMENT". The menu bar includes "File", "Functions", "Master", "Reports", "Action", and "Help". Below the menu is a toolbar with various icons. The main window has three input fields: "Screen Name" (DEPARTMENTS), "Date" (٢٠١٤-١٢-١٥), and "User Name" (PROJECT). A banner at the bottom reads "JOHNSON'S KNOWLEDGE FOR SUCCESS". The central area is titled "Enter New Department" and contains three form fields:

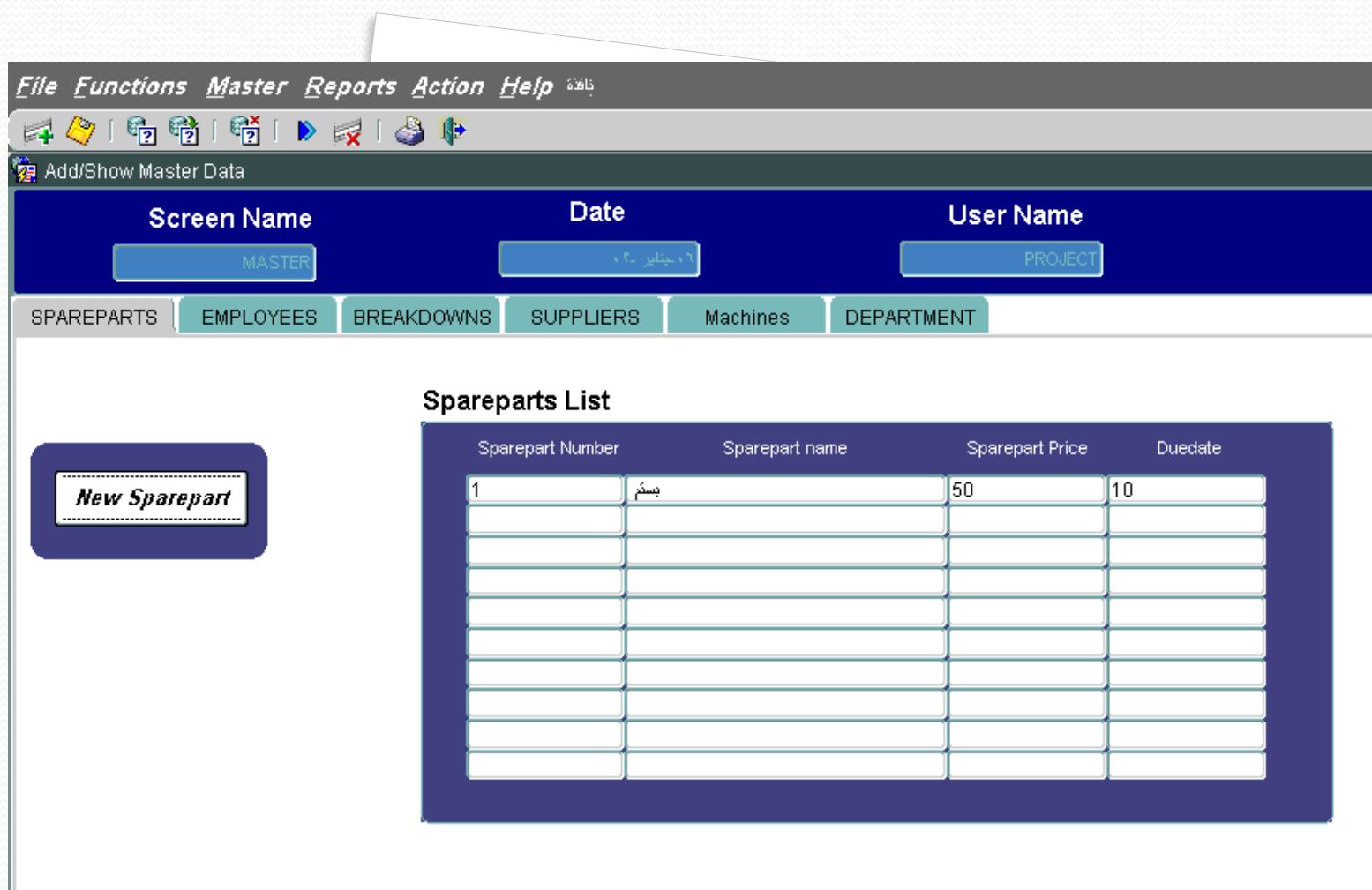
Department No.	001
Department Name	الادسرك
Stock No.	2

Master form:



Master form (cont...)

Master form (cont...)



Master form (cont...)

File Functions Master Reports Action Help

Add/Show Master Data

Screen Name	Date	User Name
MASTER	٢٠١٩-١٢-٢٥	PROJECT

SPAREPARTS | EMPLOYEES | BREAKDOWNS | SUPPLIERS | Machines | DEPARTMENT

New Department

Departments List

Department No.	Department Name	Stock No.
2	withdraw	2
4	electric station	4
6	تخطيط ومتابعة اعمال الصيانة	4
8	لحام المسالمة	2
10	المكتف والبخار	4
1	البلاستيك	4

Show Preventive Form:

The screenshot shows a Windows application window titled "Show preventive Data". The menu bar includes "File", "Functions", "Master", "Reports", "Action", "Help", and "tab". Below the menu is a toolbar with icons for file operations like Open, Save, Print, and Exit. The main title bar says "Show preventive Data".

The form has three input fields at the top: "Screen Name" (set to "PREVENTIVE"), "Date" (set to "٢٠١٣-٦-٢٧"), and "User Name" (set to "PROJECT"). Below these is a banner with the text "Preventive data" and "NOTHING ADDS UP TO SUCCESS".

A table displays preventive data with columns: "Preventive No.", "Task Name", "From Date", "To Date", and "Dept No.". The first row shows values: 1, "فک بستم ماسنک الماسورة", 01/01/1998, 02/01/1998, and 4.

Below this is a larger table with columns: "Preventive No", "Record No.", "Machine No.", "What Achieved", "Start Date", "End Date", "Downhours", and "Total Cost". The first row of data is: 1, 1, 104, "فک بستم ماسنک الماسورة", 01/01/1998, 02/01/1998, 24, and an empty cost field.

At the bottom left is a button labeled "Add New Preventive".

This button call new form to enter new preventive data from it.

Code:

```
open_form ('D:\forms\ENTERPREVENTIVE.fmx');
```

Enter New Preventive Form:

File Functions Master Reports Action Help

Add new preventive

Screen Name	Date	User Name
ENTERPREVENT	٢٠٠٣-١٢-٢٠	PROJECT

Add New Preventive

Preventive No.	1	Date From	01/01/1998
Task Name	فک فکب بستم ماسنک الماسور	Date To	02/01/1998
Depatment No.	4		



Report Forms (cont..)

File Functions Master Reports Action Help

Show machines Data

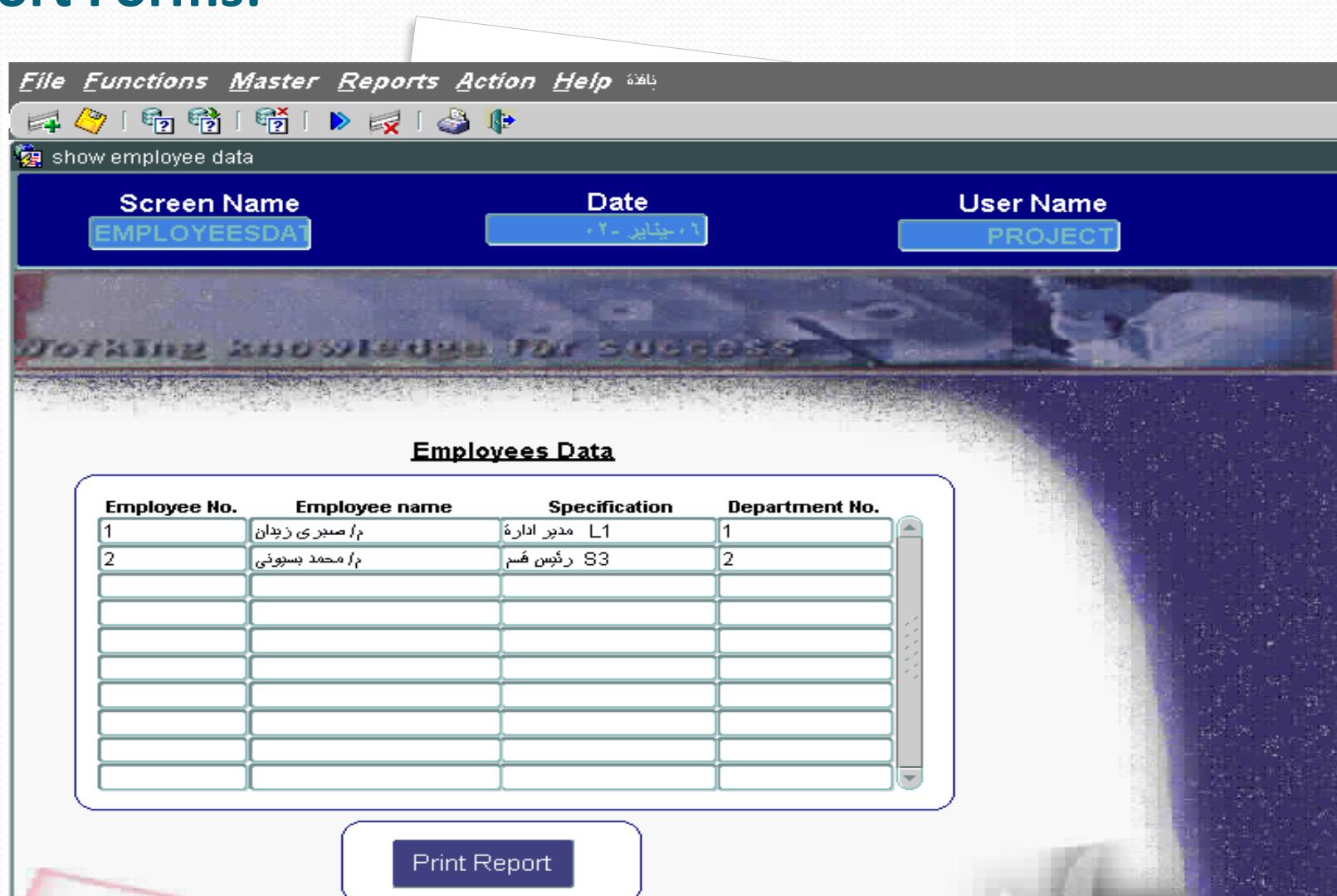
Screen Name: MACHINES Date: ٢٠١٣-٥-٢٧ User Name: PROJECT

All Machines Data

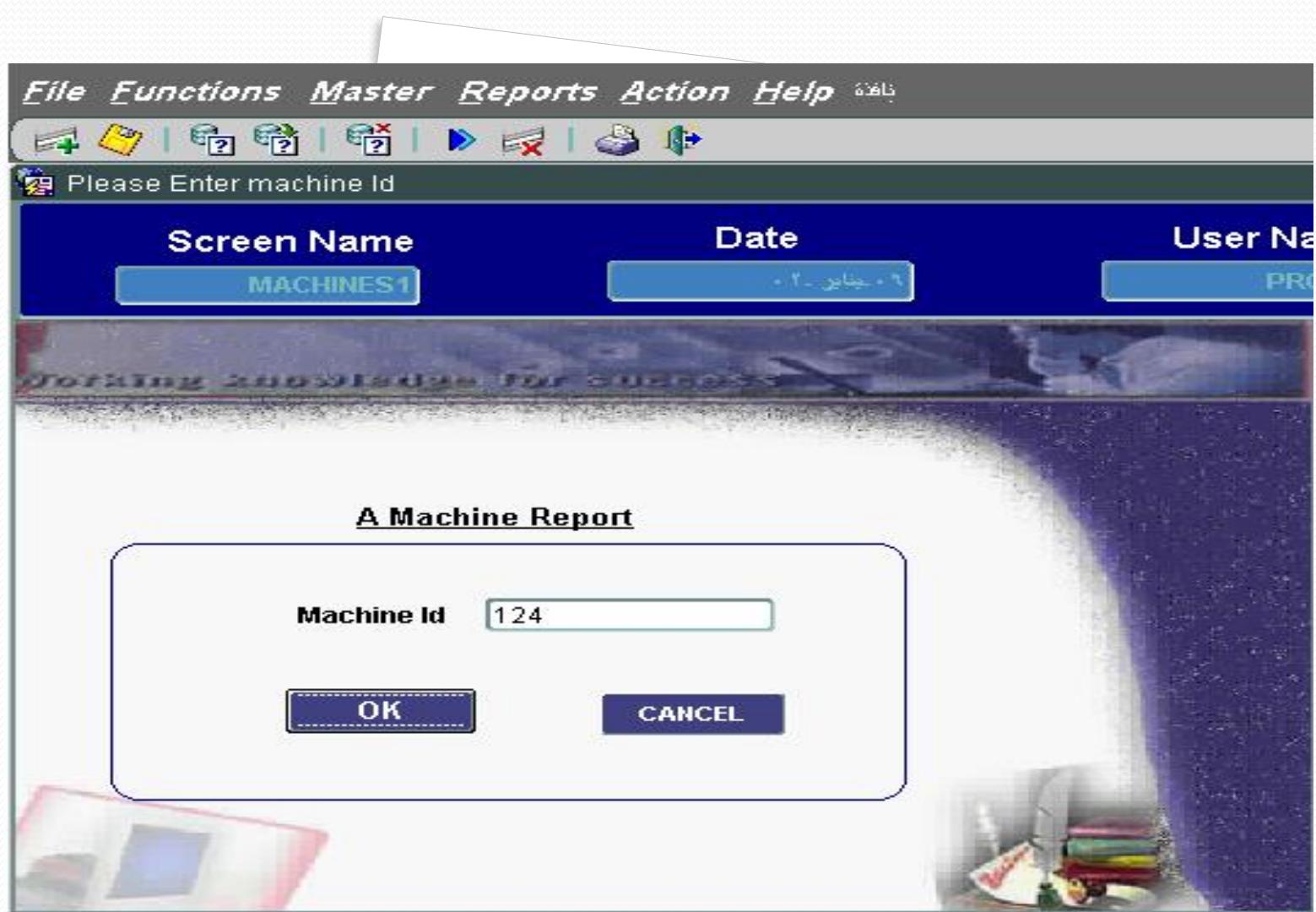
Sequence	Machine No.	Machine Name	Department No.	Due date	Type
1	124	مطبخات الهواء	8	15	old
2	104	مطبخات حافظة الغساله	10	23	old

Print Report

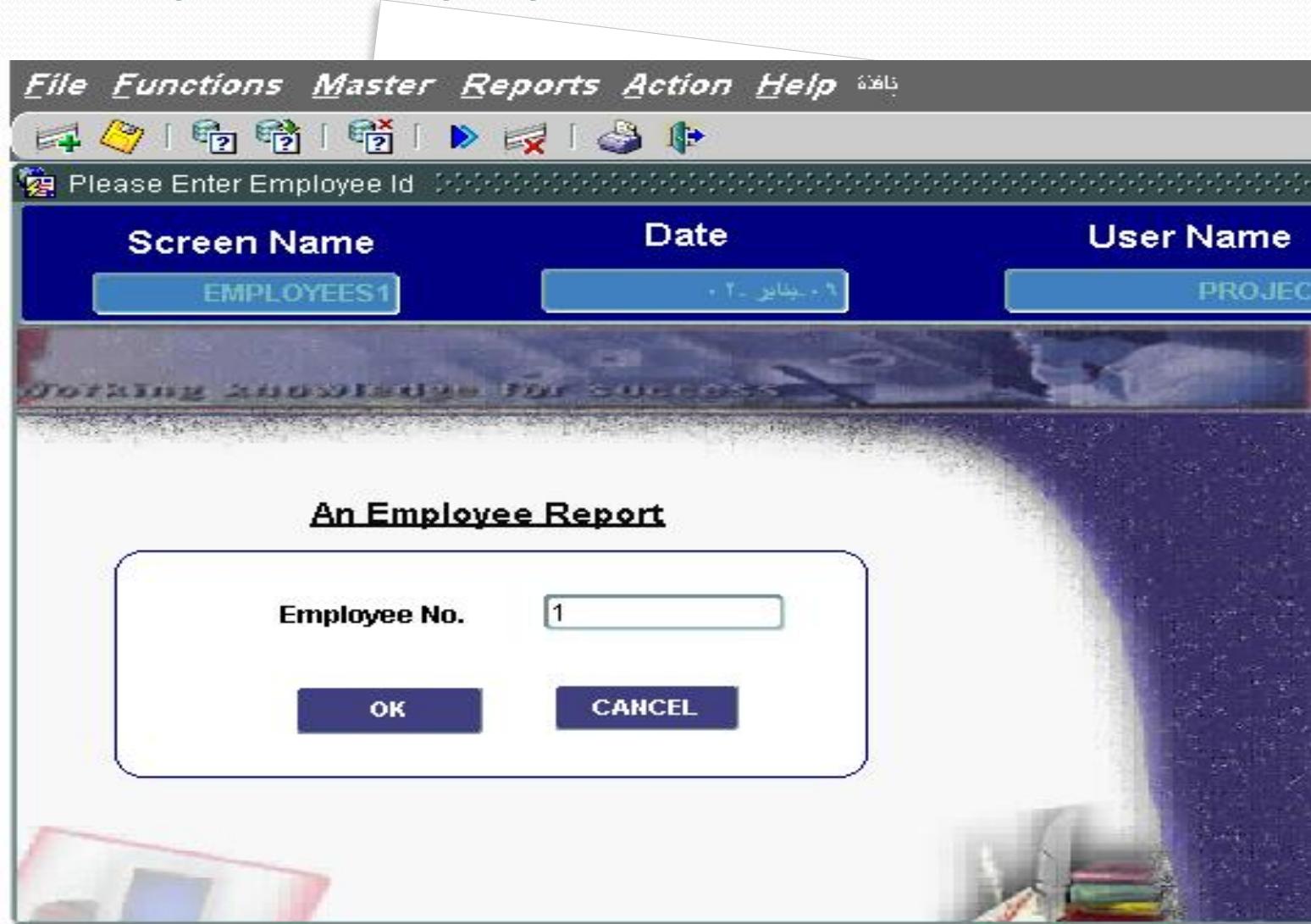
Report Forms:

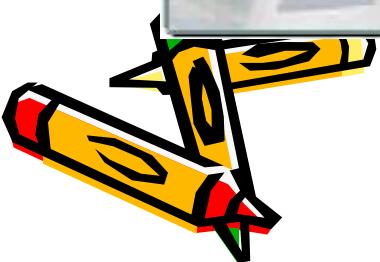
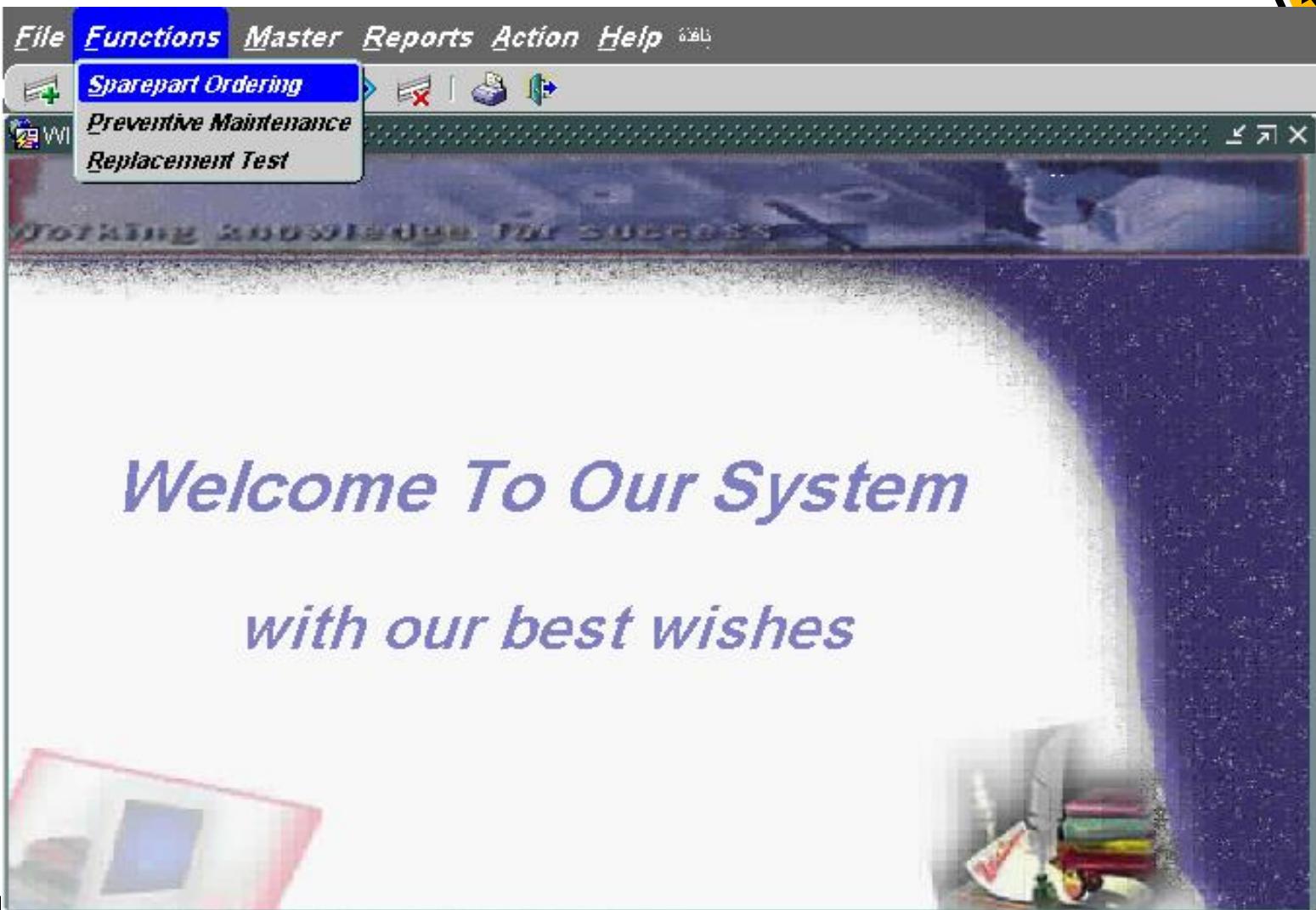


Report form for specific machine:

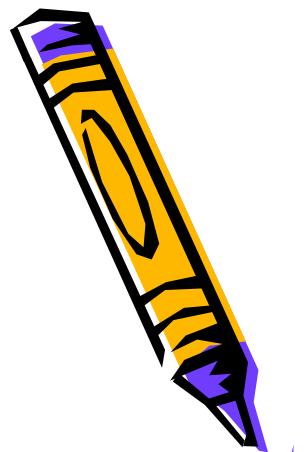


Reports for specific employee:



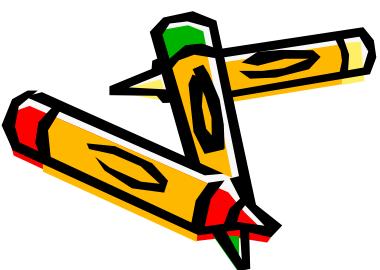


System Functions



2-Unknown shortage about amount of spareparts in the stock.

For solving this problem , our system alarms manager for replenishment stock before the amount of each sparepart became under critical amount.



Spare part ordering form:

The screenshot shows a Windows application window titled "Sparepart Ordering". The menu bar includes File, Functions, Master, Reports, Action, Help, and a language selection (Arabic/English). The toolbar contains icons for New, Open, Save, Print, and Exit. The main title bar also displays "Sparepart Ordering".

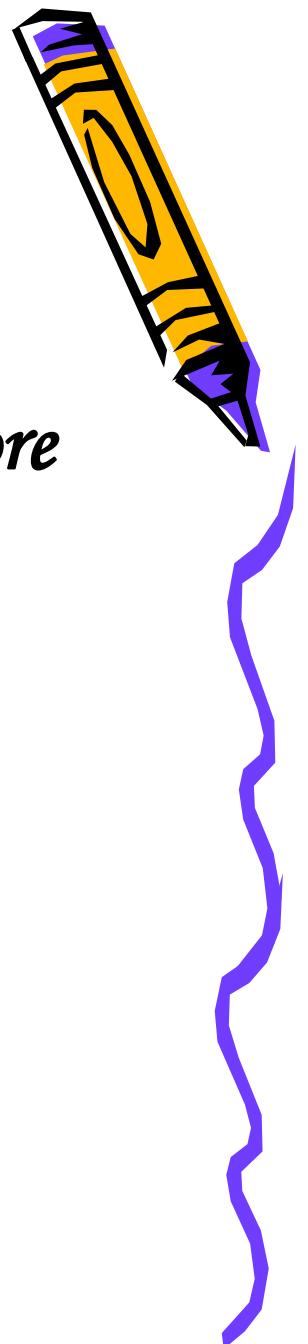
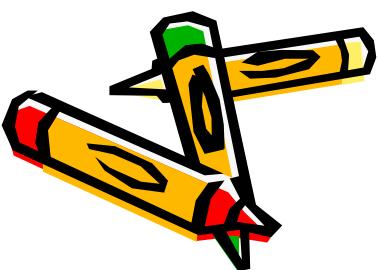
The top header section contains three fields: "Screen Name" (SPAREPARTORDERIN), "Date" (01-01-2001), and "User Name" (PROJECT).

The main area is titled "Sparepart Order" and contains the following data entry fields:

Sparepart No.	1	Input Date	01/01/2001
Stock No.	2	Order Date	07/01/2001
Lead Time	5	Daily Demand	15
Reorder Point	125		
Ordering Amount	50	Current Amount	150

3-Some companies implement preventive maintenance depending only on experiences of managers which may impose these companies more costs.

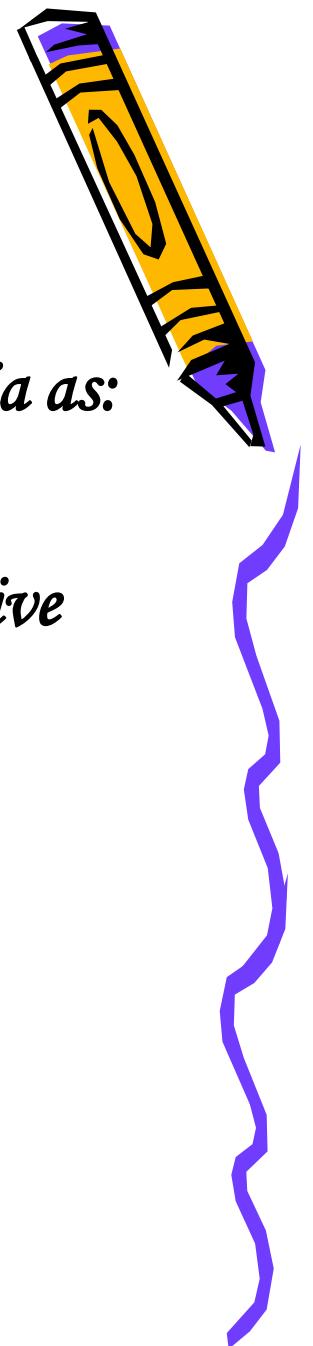
Our system help maintenance managers to implement preventive maintenance on the basis of logic in addition to experiences of managers.



4-Some companies do not know when to replace the machine to increase their productivity and reduce cost resulted from continuous maintenance.

Our system solve this problem depending on some criteria as:

- Due date of machines had been expired.*
- Compare total cost of machines maintenance (preventive ,corrective ,cost of the last breakdown) during their life cycle with income from these machines then return true decision about replacement.*



Replacement Form:

File Functions Master Reports Action Help

TEST FOR REPLACEMENT

Screen Name REPLACEMENT	Date + 1 - 2002 - 1	User Name PROJECT
----------------------------	------------------------	----------------------

ROTATING KNOWLEDGE FOR SUCCESS

Machine No.	104	
Year	Income	Future Income
2001	1000000	1000000
Result	1000000	

Breakdown date 01/01/2001

Target_Year 1

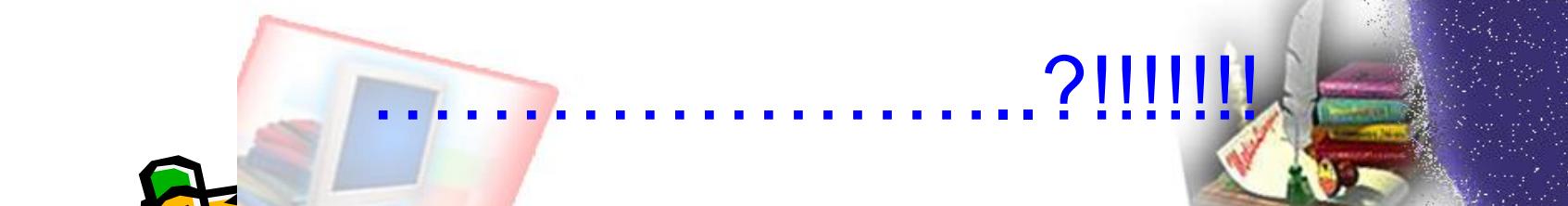
Interest_Rate 10%

Check Replaceme...



Thank you

**The door is open for any
question**



???????

