



Kingdom of Saudi Arabia
Ministry of Higher Education
Majmaah University
College of science at Az-Zulfi
Department of computer science and information



Loan Management System

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ACKNOWLEDGEMENTS	2
1.1 INTRODUCTION:.....	5
1.2 Problem Statement.....	6
1.3 Research Goals:.....	7
1.4 Importance of the study:.....	7
1.5 Scope of the study:	7
1.6 Questionnaire summary:.....	8
1.7 Project scheduling:.....	9
1.8 UML Diagram:	10
1.9 use case Diagram :	11
2.0 Admin ues case :	12
2.1 system environment use case	13
2.2 Data flow Diagram	Error! Bookmark not defined.
2.3 clinet leve 0 (DFD).....	Error! Bookmark not defined.
2.4 Admin leve 0 (DFD) :	Error! Bookmark not defined.
2.5 class Diagram:	Error! Bookmark not defined.
2.6 Context Diagram :	Error! Bookmark not defined.
2.7 Activity Diagram:	18
2.8 ERD:	19
2.9 sequence Diagram :	20
3.0 sequence Diagram:	21
3.1 Interface:.....	22
Project 2:.....	23
4.1 Create a database	24
4.2 table usersys	26
4.3 table users	27
4.4 Table company	28
4.5 Table barnche	29
4.6 Table customer	30
4.7 Table paymentmonthly	31

4.8	interface for admin.....	32
. 4.9	interface for company	33
5.0	interface for Branches	35
5.1	interface for employee	36
5.2	interface for customer	38
5.2	cod connect	39
5.2	cod log in	40
5.2	cod logout	41
5.2	cod dashboard	42
5.2	Reference	43

List of Figures:

Fig.2.0	customer (Ues Cas Digaram)	11
Fig.2.1	Admin (Ues Cas Digaram).....	12
Fig.2.2	campny (Use-case diagram)	13
Fig.2.3	system environment (DFD)	14
Fig. 3.0	clinet level 0 (D F D)	15
Fig. 3.1	Admin level 0 (D F D).....	16
Fig. 3.1	Class diagram	17
Fig. 3.1	context Diagram	17
Fig. 4.0	Actovoty Diagram	18
Fig. 4.1(ERD).....	19
Fig. 4.2	customer (Sequence diagram).....	20
Fig. 5.0	Admin (Sequence diagram).....	21
Fig. 7.1	Login Page	22
	interface for admin	33
	interface for company	35
	interface for Branches	36
	interface for employee	37
	interface for customer	39

1.1 INTRODUCTION:

Loan Management System (LMS)

It is basically an online application that helps in the process of organizing loan management for client and institutions When the client or the beneficiary takes a loan or his loan from the institution, the institution shall sign the contracts Login to the site and registration as an institution and then enter the data of the beneficiaries and give them a user name and password,

Then the customer can see his file within the institution and know the amounts paid and the amounts remaining And the installments that are plagued by it without the need to go to the institution and also can apply for a new loan and so the customer service within the system ,

And the institutions benefit from the system to get full access to the files of customers and knowledge of customers defaulting on payment and inclusion in a special lis You can also view and provide loans to new loan applicants from the same clients With the services provided by the site to customers and institutions we achieved the goal of the site and save time and effort

1.2 Problem Statement

Given that the changes that have taken place in the world and in Saudi Arabia as well, we found that paperwork is inconvenient way to record data.

Most loan providers still use the old fashion, where they record all the details on the papers. No online service.

For example, when a customer wants to know the remaining amount, he needs to go to in person or contact the provider. Then, the provider representative has to review the customer details manually and calculate the remaining amount.

Unfortunately, this method is a waste of time, inaccurate and inefficient. The loan receiver sometimes could argue about missing data, such as an installment that is missing and is not being recorded.

Here comes the idea of the project.

1.3 Research Goals:

The objective of this study is to develop distinguished institutions within the Kingdom of Saudi Arabia and organize loan management. There are many goals and focus :

- 1- Saving time and effort
- 2- Eliminate the use of paperwork for transactions
- 3- Customer's vision towards the organization
- 4- And full customer access

1.4 Importance of the study:

There are several loan management systems, from the traditional methods of paper and pen to electronic record keeping. However, a few of these systems are interoperable and all records are considered the property of the enterprise without the client,

The system (LMS) will help improve communication and flexibility between the parties and the full knowledge of both parties

1.5 Scope of the study:

This study will cover some local institutions in the Kingdom of Saudi Arabia and will be extended in the future to cover all financial institutions in the Kingdom.

1.6 Questionnaire summary:



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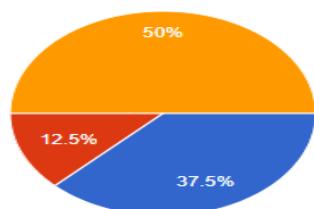
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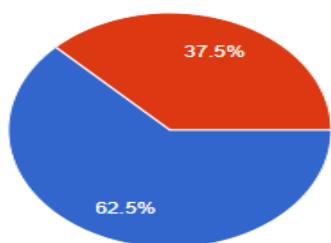
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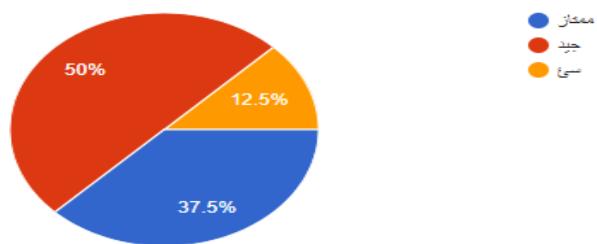
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لا



ما رأيك في فكرة المشروع؟

ردود 8



1.7 Project scheduling:



Fig.1.0 Gantt chart

1.8 UML Diagram

The client who benefits from the organization enters the website and can view its information or submit a new application ,and the manager of the institution can add new customers, delete the complete payment and see the defaulters

Actor	Goal
client	<ul style="list-style-type: none">• See your personal account• See the data on the system
company	<ul style="list-style-type: none">• View customer records• Add new customer and enter payment data• Delete a client
Admin	<ul style="list-style-type: none">• Add institutions•Add branches•Add cards•Delete and modify

1.9 Use case diagram:

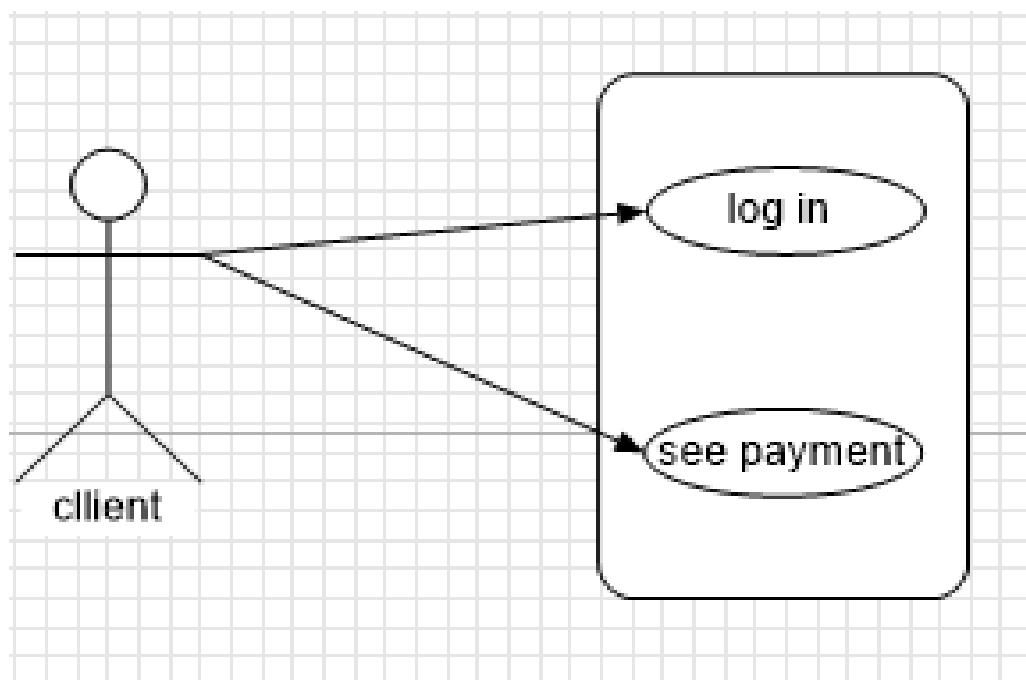


Fig.2.0 customer (Use-case diagram)

2.0 Admin Use case

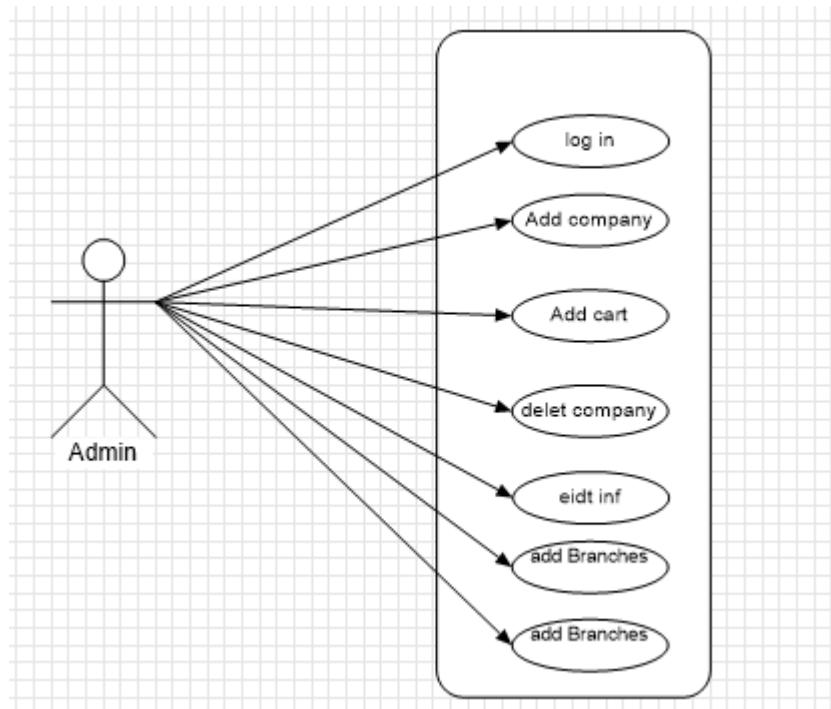


Fig.2.1 Admin (Use-case diagram)

2.1 company Use case

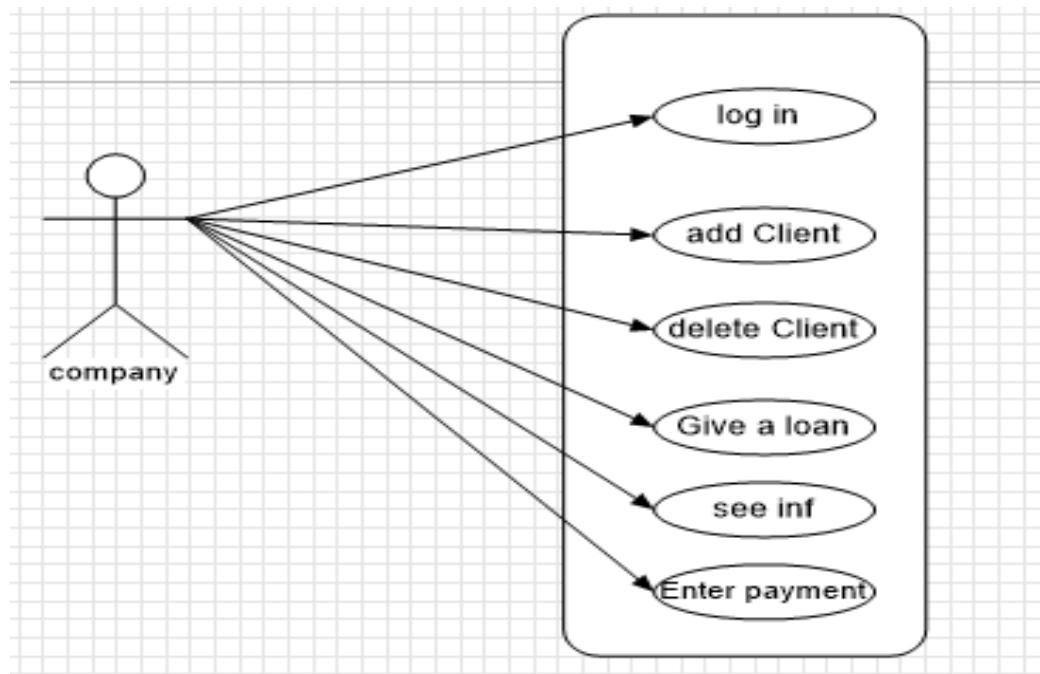


Fig.2.3 company (Use-case diagram)

2.2 Data Flow Diagram

The customer submits a new application

At this time, the first two operations are to verify the existence of the name within the client file and to check the availability of the budget and then send a report to the management

In turn, the administration opens a file for the client and is added within the client file and then can view the information on it

The admin can delete a client from a client file and then send a report from the client file to the admin

Data Flow Diagram

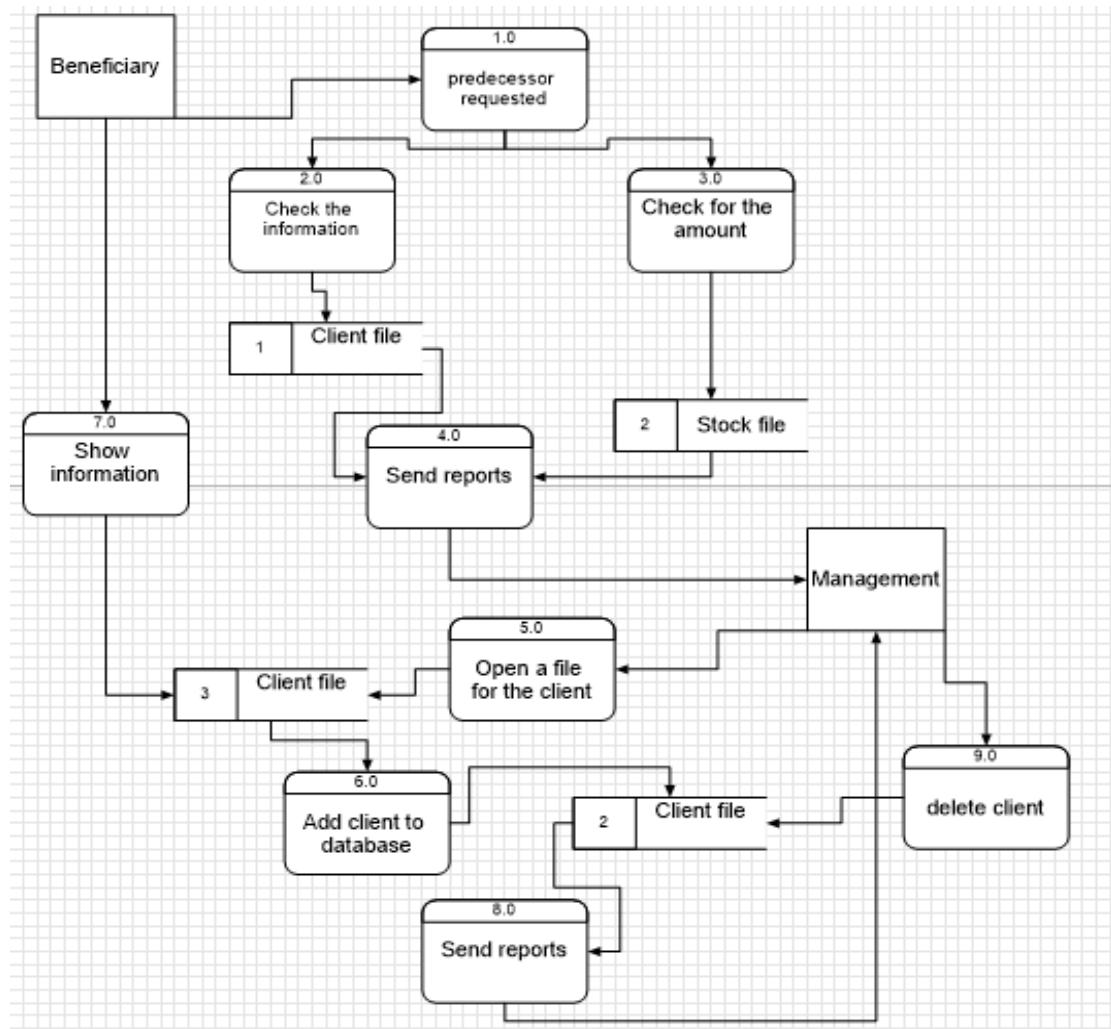


Fig.2.4 system environment (DFD)

2.3 At clinet level 0

The client has two processes after entering the system

The first request is from the administration

The second process is seen from the client file

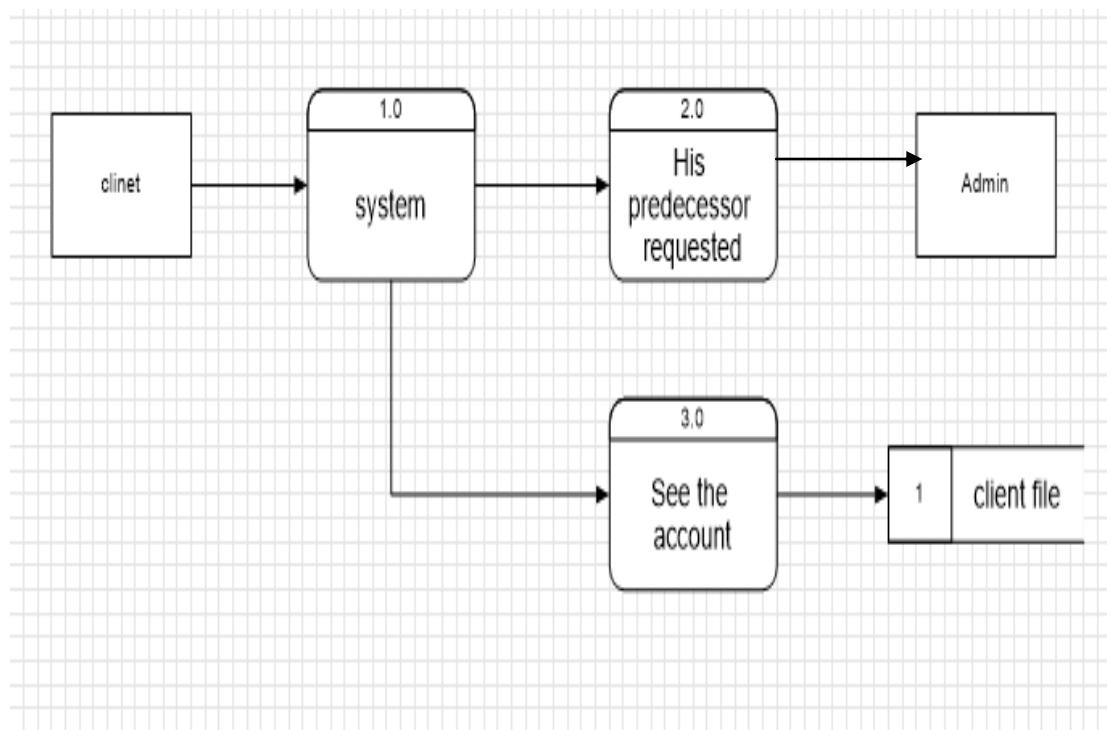


Fig.2.5 clinet leve 0 (DFD)

2.4 At Admin level 0

The administration has more than one process to do after entering the system

1- Additional customers and deletion of the income of the customer file

2 - Modify the information inside the client file

3. Access the client file and the budget file

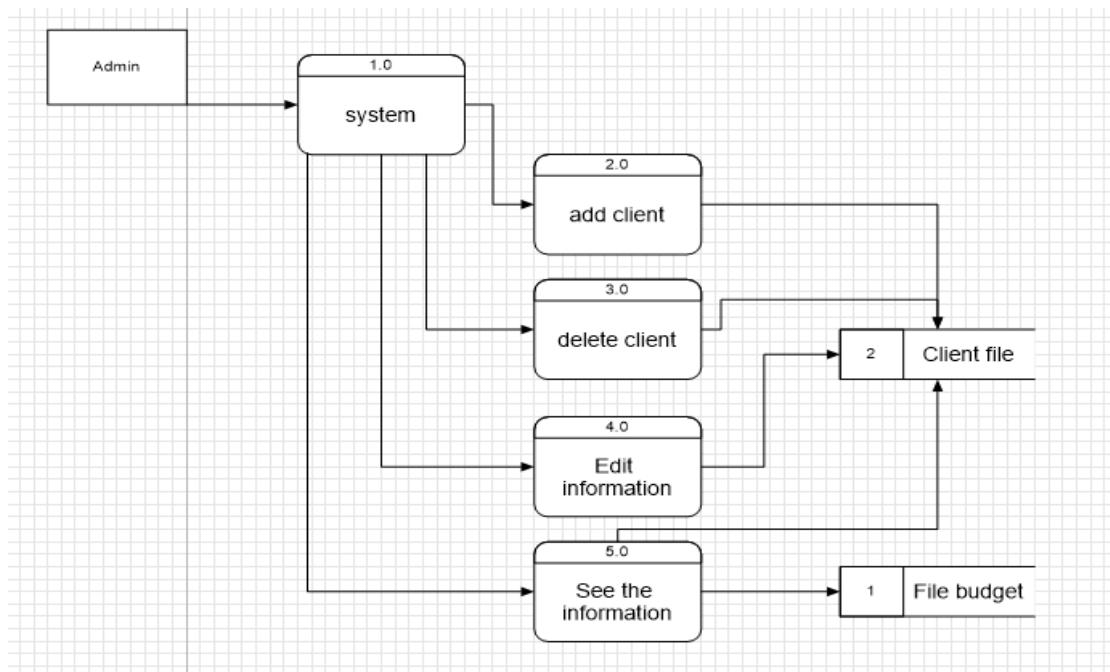


Fig.2.6 Admin leve 0 (DFD)

Class diagram

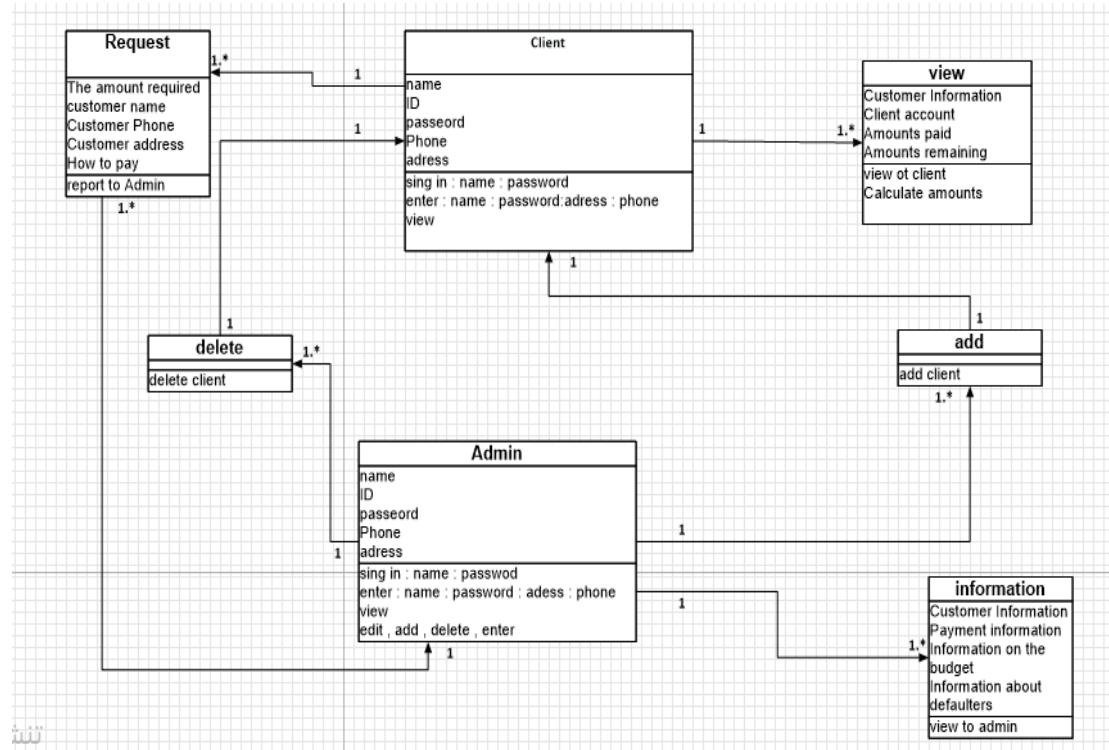


Fig.2.7 Class diagram

Context Diagram

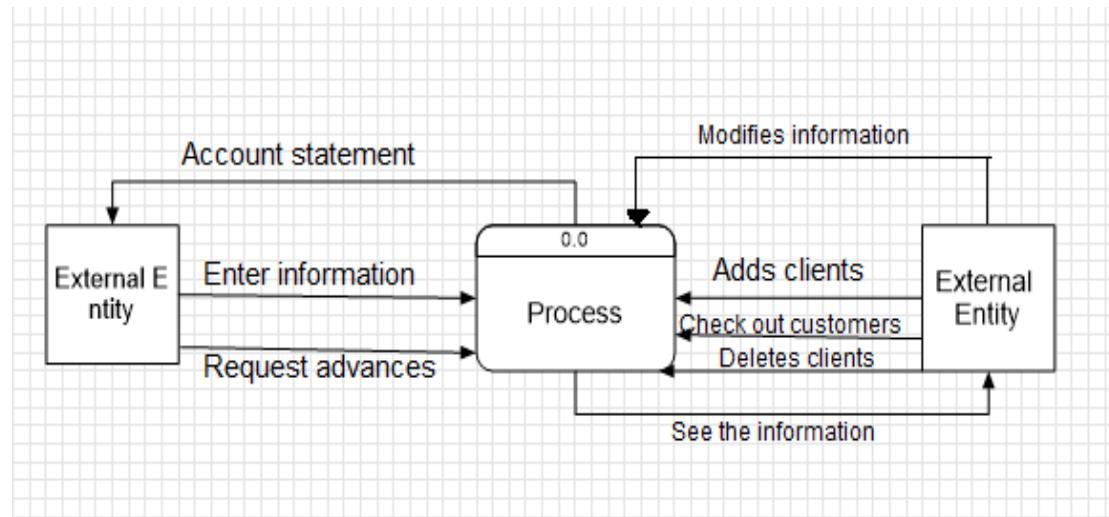


Fig.2.8 Context Diagram

2.5 activity diagram

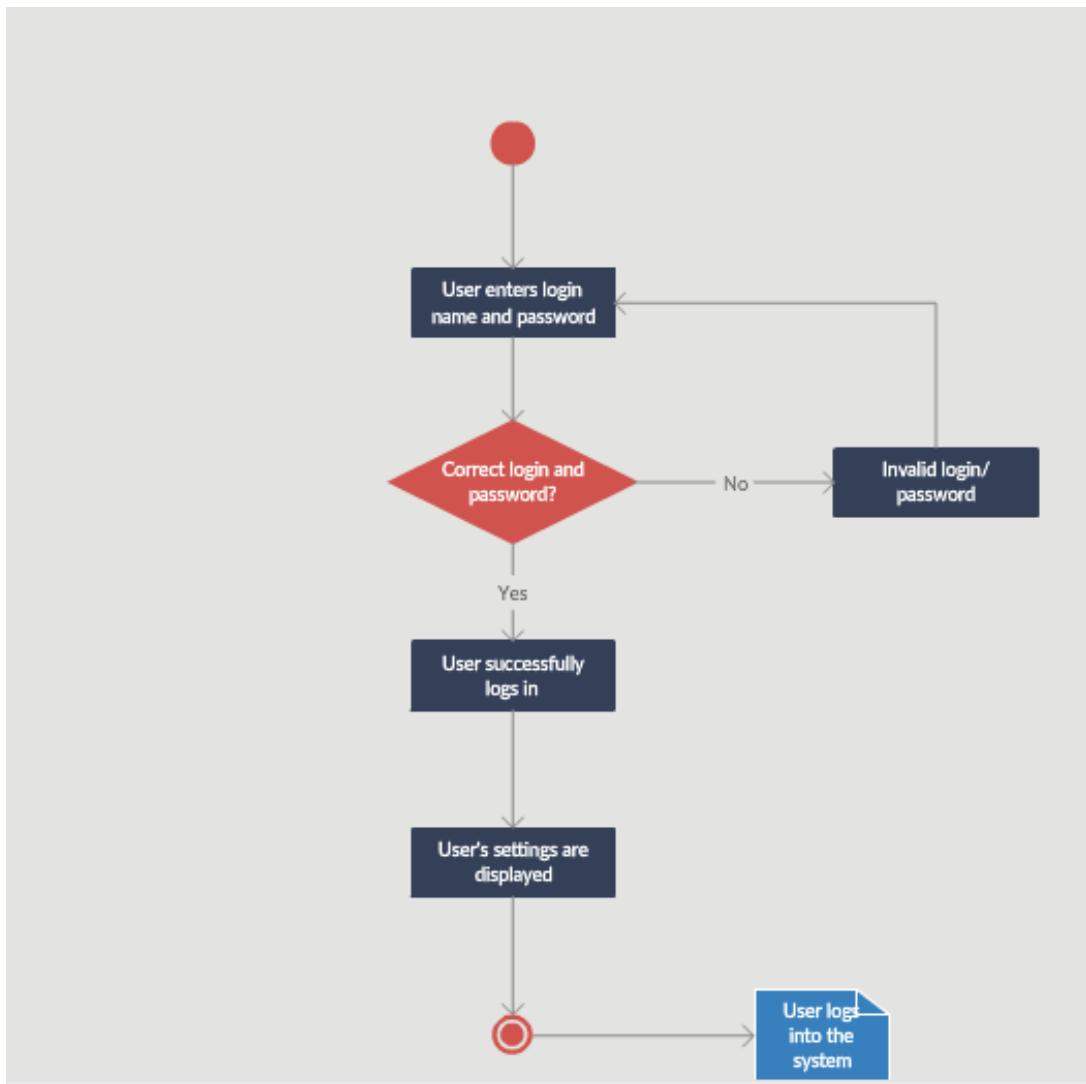


Fig.2.9 activity diagram(log in)

2.6 ERD

The customer has a special set of data, consisting of name, ID, address, phone number and password. He can view the available powers of his / her access to his / her information, contract information and information on the amounts and submit a request to the administration

The administration has its own data from the organization's name, ID, phone number, address and password

The management can modify and view the information, modify the customer information, add a customer, delete the client and see the defaulters and see the budget

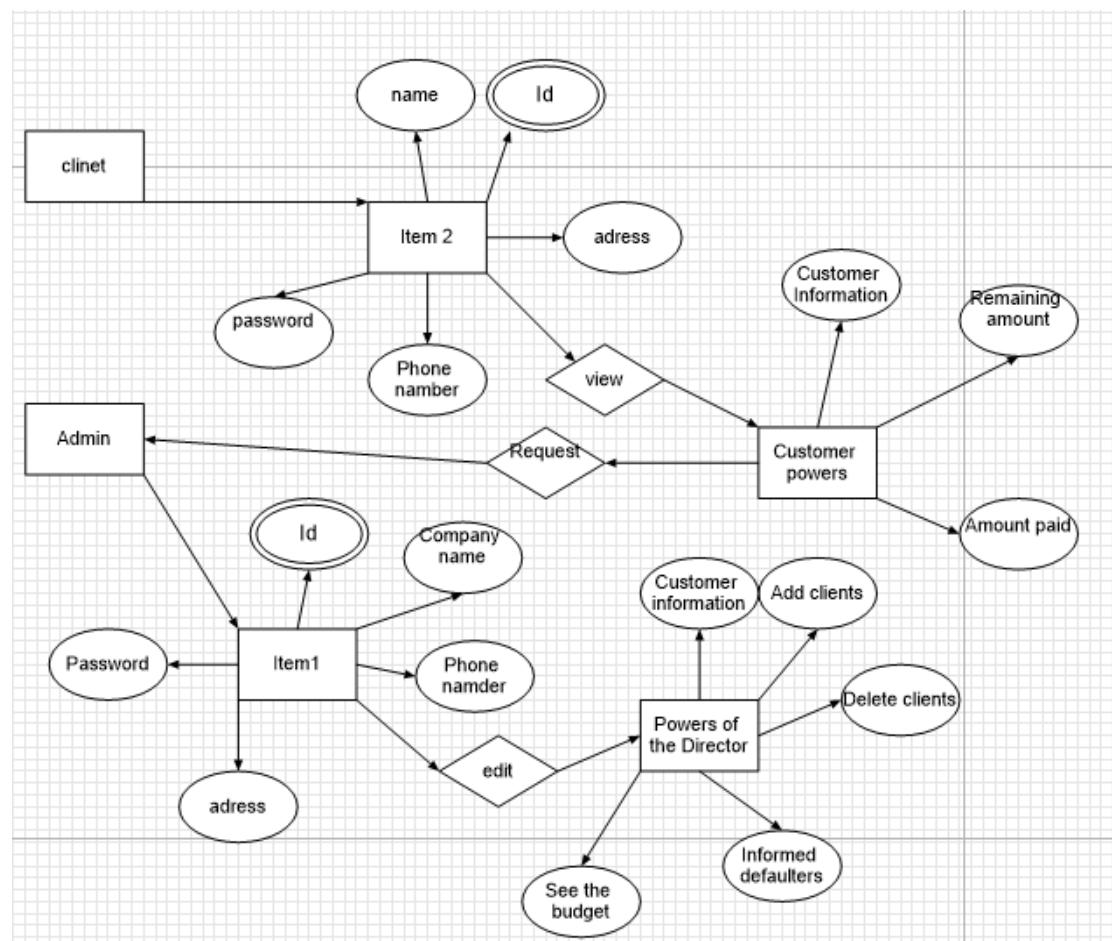


Fig.3.0 (ERD)

2.7 sequence Diagram

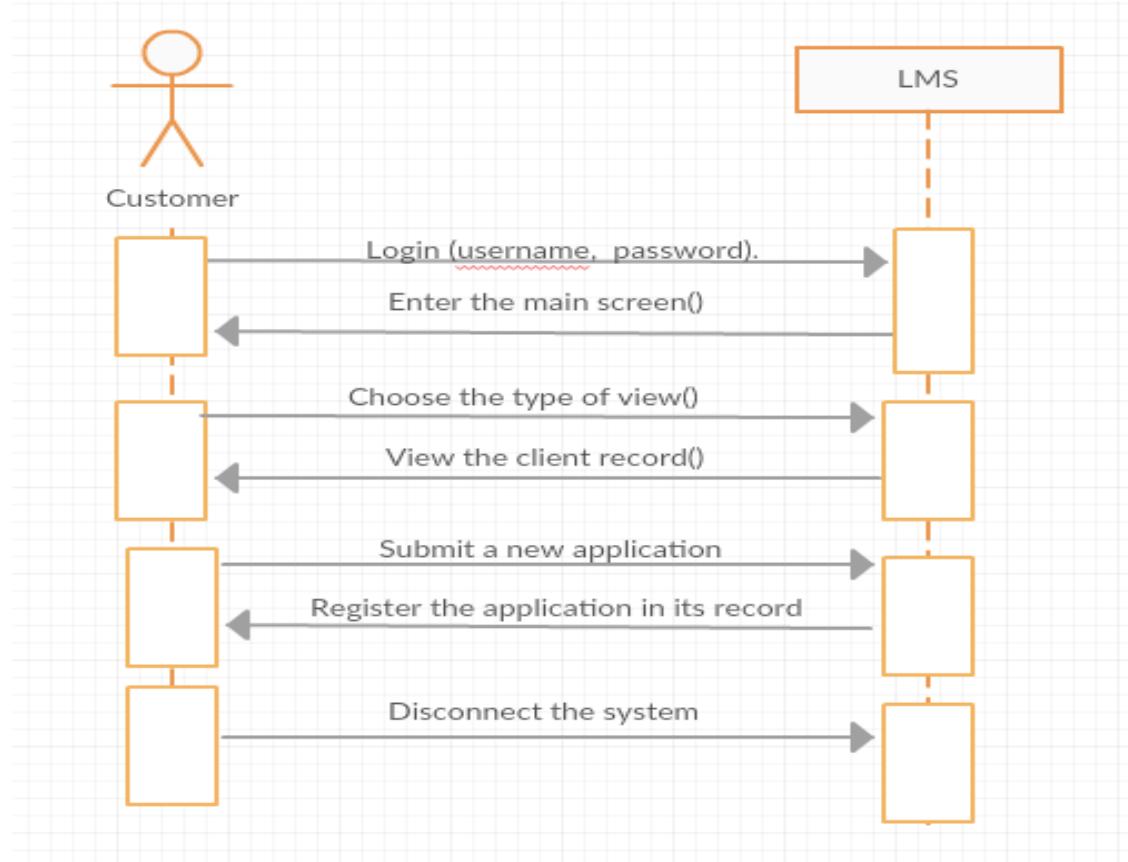


Fig.3.1customer (sequence Diagram)

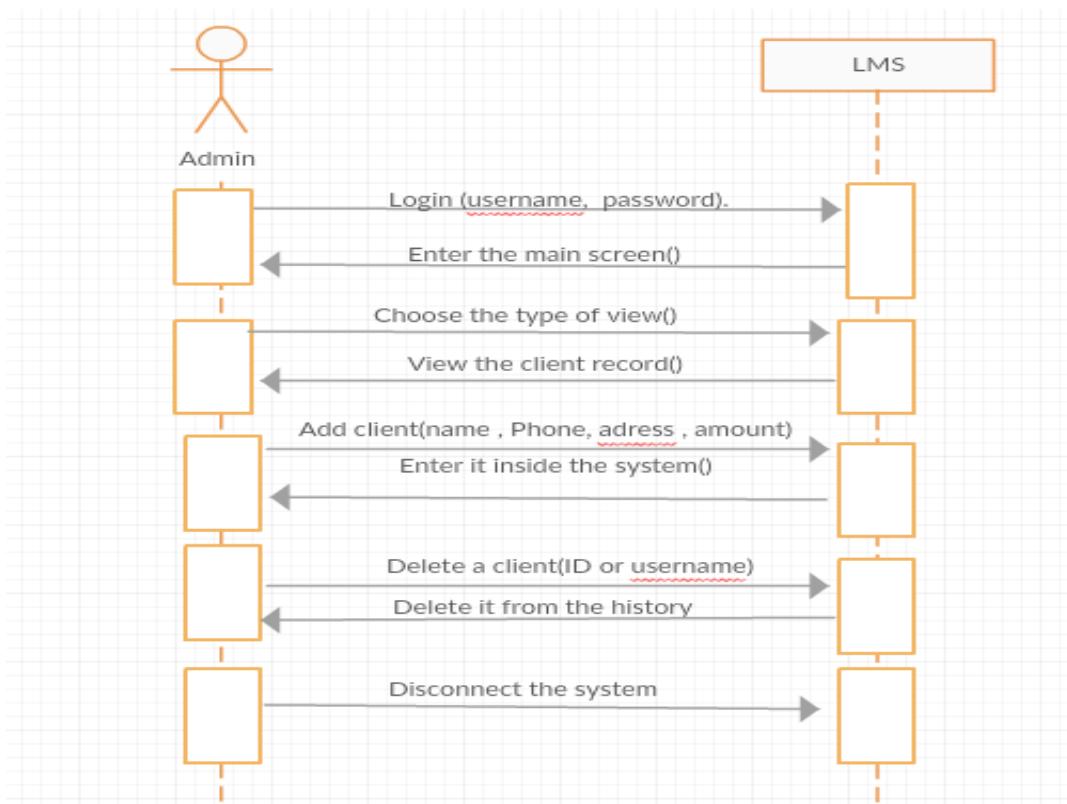


Fig 3.2 Admin (sequence Diagram)

2.8 Interface

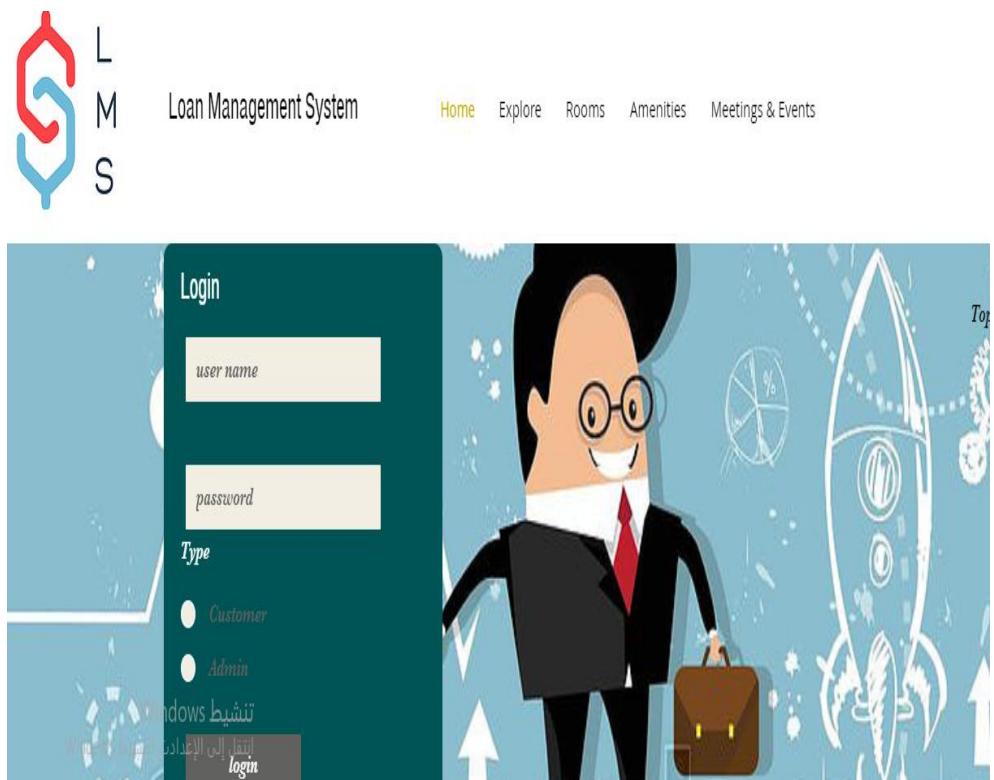


Fig.3.3 long in (interface)

Project 2

Website:

If we want create dynamic website must be use two program

- 1- First program : App Server to execute my website in localhost server .
- 2- Second program : code writer two Write my PHP Code .

Apache Restart
Apache Start
Apache Stop



Step Create website Loan :

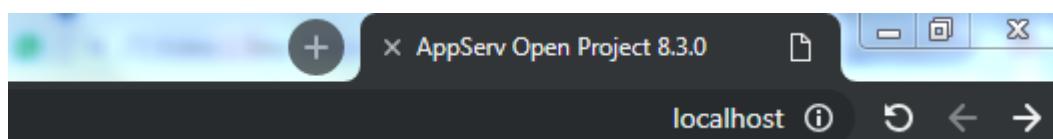


- 1- First Create Database give name it loan and Create tables to store data.
- 2- Second Create Interface website loan
- 3- Third write code (html-css- jquery-php).

First: Create a database

- 1- Run localhost server

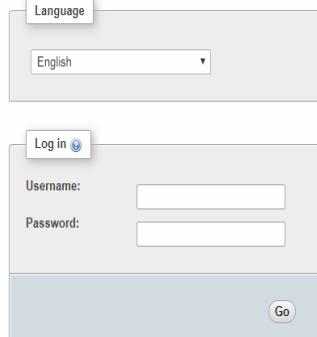
In browser (google chrome) write localhost



First screen show login server :

User : root

Password: Mjoodi123



phpMyAdmin
Welcome to phpMyAdmin
Language
English
Log in
Username:
Password:
Go

Click option database and fill two field and click create .

The screenshot shows the 'Databases' section of the phpMyAdmin interface. At the top, there's a toolbar with various tabs: Databases, SQL, Status, User accounts, Export, Import, Settings, Replication, Variables,Charsets, and More. Below the toolbar, the title 'Databases' is displayed. In the center, there's a form for creating a new database. It has three fields: a 'Create database' button with a plus icon, a text input field containing 'loan', and a dropdown menu set to 'utf8_general_ci'. To the right of the dropdown is a 'Create' button.

after click create database show in left side

The screenshot shows the 'General settings' page of phpMyAdmin. On the left, there's a sidebar with several icons: Home, Databases, SQL, Status, User accounts, Export, Import, Settings, Replication, Variables,Charsets, and More. The 'Databases' icon is highlighted with a black arrow pointing to it. In the main content area, there are two sections: 'General settings' and 'Appearance settings'. The 'General settings' section includes a 'Change password' link and a 'Server connection collation' dropdown set to 'utf8mb4_unicode_ci'. The 'Appearance settings' section includes a 'Language' dropdown set to 'English', a 'Theme' dropdown set to 'pmahomme', a 'Font size' dropdown set to '82%', and a 'More settings' link. To the right of these sections is a large sidebar titled 'Database server' which lists MySQL server details, and another sidebar titled 'Web server' which lists PHP and Apache details. At the bottom of the sidebar, there's a 'Console' link.

now we start create tables and dived to three section in my companies

- tables for Administrator
- tables for employee
- tables for Customer

first create tables for Administrator

table usersys :

in this table defined type of users in my system loan

The screenshot shows the phpMyAdmin interface for the 'usersys' table in the 'loan' database. The top navigation bar shows the table name and its properties: InnoDB, utf8_general_ci, 16 KiB. Below the toolbar, it says 'tables content of 2 two field'. The main area shows the table structure with two fields: 'groupNO' (mediumint(2)) and 'groupName' (varchar(100)). A message at the top indicates the table was altered successfully. Below the table definition, there is a SQL query: `ALTER TABLE `usersys` CHANGE `groupNO` `groupNO` MEDIUMINT(2) NOT NULL AUTO_INCREMENT;`. At the bottom, there are buttons for 'Edit inline', 'Edit', and 'Create PHP code'. The table data view shows the current state of the table:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	groupNO	mediumint(2)			No	None		AUTO_INCREMENT	Change Drop
2	groupName	varchar(100)	utf8_general_ci		No	None			Change Drop

At the bottom of the table view, there are buttons for 'Check all', 'With selected:', 'Browse', 'Change', 'Drop', 'Primary', 'Unique', and 'Index'.

group No : auto_increment integer field length 2.

groupname: varchar(10).

Data in table

+ Options		groupNO	groupName
<input type="checkbox"/>	Edit Copy Delete	1	administrator
<input type="checkbox"/>	Edit Copy Delete	2	employee
<input type="checkbox"/>	Edit Copy Delete	3	customer
	<input type="checkbox"/> Check all	With selected:	Edit Copy Delete Export

Table users : content data of users use a system .

users Browse Structure Search Insert Empty Drop

Fields in table users :

Server: localhost » Database: loan » Table: users									
Browse		Structure		SQL		Search		Operations	
Table structure		Relation view							
#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	UserID	int(11)			No	None	To Identify User	AUTO_INCREMENT	Change Drop Primary Unique More
2	Username	varchar(255)	utf8_general_ci		No	None	username to log		Change Drop Primary Unique More
3	password	varchar(255)	utf8_general_ci		No	None	password to log		Change Drop Primary Unique More
4	Email	varchar(255)	utf8_general_ci		No	None			Change Drop Primary Unique More
5	FullName	varchar(255)	utf8_general_ci		No	None			Change Drop Primary Unique More
6	GroupId	int(11)			No	0	Identify user permission		Change Drop Primary Unique More
7	jawal	varchar(13)	utf8_general_ci		Yes	NULL			Change Drop Primary Unique More

Table company

Content companies join my website.

The screenshot shows the MySQL Workbench interface with the following details:

- Toolbar:** Includes icons for company, Browse, Structure, Search, Insert, Empty, Drop, InnoDB, and utf8_general_ci.
- Header:** Shows "Server: localhost » Database: loan » Table: company".
- Tool Buttons:** Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, and More.
- View Buttons:** Table structure (selected) and Relation view.
- Table Definition:** A detailed table structure is displayed with the following columns:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	companyID	mediumint(2)	utf8_general_ci		No	None		AUTO_INCREMENT	Change Drop More
2	companyName	varchar(300)	utf8_general_ci		No	None			Change Drop More
3	companyAddress	varchar(300)	utf8_general_ci		No	None			Change Drop More
4	companytel	varchar(10)	utf8_general_ci		No	None			Change Drop More
5	companyjal	varchar(10)	utf8_general_ci		No	None			Change Drop More

Table barnche :

The screenshot shows the MySQL Workbench interface for the 'branch' table. At the top, there's a toolbar with icons for Refresh, Home, Undo, Redo, Find, Replace, Copy, Paste, Cut, Delete, Insert, and a Help button. Below the toolbar, the table name 'branch' is displayed along with a star icon, a 'Browse' button, a 'Structure' button (which is currently selected), a 'Search' button, an 'Insert' button, an 'Empty' button, a 'Drop' button, and information about the engine ('InnoDB') and character set ('utf8_general_ci').

Below the table name, there are two tabs: 'Table structure' (selected) and 'Relation view'. The main area displays the table structure in a grid format:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	companyId	mediumint(1)			No	None			Change Drop More
2	branchID	mediumint(2)			No	None	AUTO_INCREMENT		Change Drop More
3	branchName	mediumtext	utf8_general_ci		No	None			Change Drop More
4	branchAddress	mediumtext	utf8_general_ci		No	None			Change Drop More

Table customer :

The screenshot shows the MySQL Workbench interface with the following details:

- Toolbar:** customers, Browse, Structure, Search, Insert, Empty, Drop, InnoDB, utf8_general_ci, 16 KiB.
- Header:** Server: localhost » Database: loan » Table: customers
- Tab Bar:** Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, More. The "Structure" tab is selected.
- Buttons:** Table structure (selected), Relation view.
- Table Data:** A detailed table showing the structure of the "customers" table with 8 columns: #, Name, Type, Collation, Attributes, Null, Default, Comments, Extra, Action.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	UserID	mediumint(5)			No	None			Change Drop Primary ▾ More
2	haiwaNO	varchar(11)	utf8_general_ci		No	None			Change Drop Primary ▾ More
3	cust_date	varchar(10)	utf8_general_ci		No	None			Change Drop Primary ▾ More
4	cust_city	varchar(100)	utf8_general_ci		No	None			Change Drop Primary ▾ More
5	haiwastartdate	varchar(10)	utf8_general_ci		No	None			Change Drop Primary ▾ More
6	hawiaenddate	varchar(10)	utf8_general_ci		No	None			Change Drop Primary ▾ More
7	gender	mediumint(1)			No	None			Change Drop Primary ▾ More
8	kindhawia	mediumint(2)			No	None			Change Drop Primary ▾ More

Table _paymentmonthly :

The screenshot shows the MySQL Workbench interface for the 'paymentmonthly' table. The top bar displays the database name 'paymentmonthly' and various navigation icons. Below the toolbar, the main window title is 'Server: localhost » Database: loan » Table: paymentmonthly'. The main content area features a tab bar with 'Browse', 'Structure', 'SQL', 'Search', 'Insert', 'Export', 'Import', 'Privileges', 'Operations', and 'Triggers'. The 'Structure' tab is selected, highlighted in blue. Below the tabs, there are two buttons: 'Table structure' (selected) and 'Relation view'. The main table below has the following columns:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	cart_id	mediumint(11)			No	None			Change Drop Primary Unique Index Spatial More
2	paymonth_id	mediumint(2)			No	None			Change Drop Primary Unique Index Spatial More
3	cust_id	mediumint(10)			No	None			Change Drop Primary Unique Index Spatial More
4	amount_date	varchar(10)	utf8_general_ci		No	None			Change Drop Primary Unique Index Spatial More
5	mount	float			No	None			Change Drop Primary Unique Index Spatial More
6	mount_true	mediumint(1)			No	None			Change Drop Primary Unique Index Spatial More

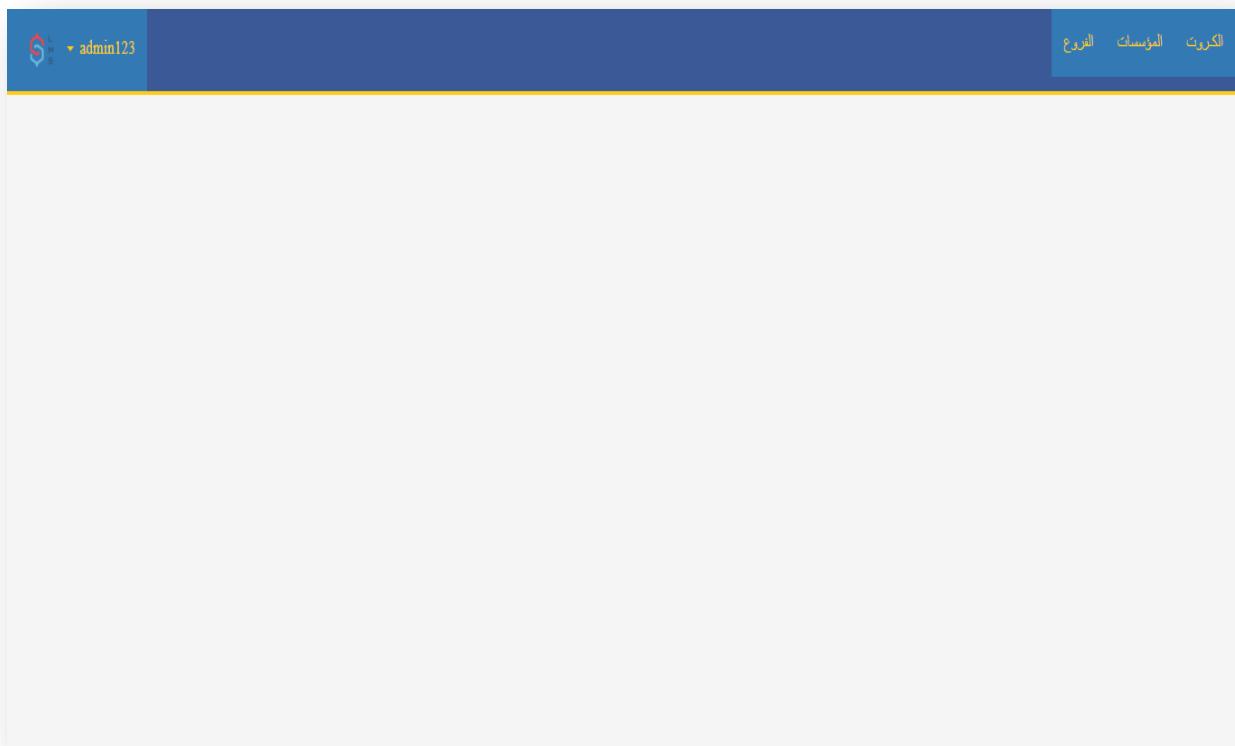
Interface of website loan:

Page of login website loan



First : interface for admin

If admin sign in website loan write username and password show the control panel



First choose insert carts from cart.php page :

In this page show previous cart inserted and button to add a new cart .

The screenshot shows a table titled 'الكروت' (Carts) with the following data:

م	فنة الكروت	اختر للتعديل	اختر للحذف
١	كارت فنة 10 ريال	انقر هنا	انقر هنا
٢	كارت فنة 20 ريال	انقر هنا	انقر هنا
٣	كارت فنة 30 ريال	انقر هنا	انقر هنا
٤	كارت فنة 50 ريال	انقر هنا	انقر هنا
٥	كارت فنة 100 ريال	انقر هنا	انقر هنا

If the admin click button (إضافة كروت) show page add a cart

The screenshot shows a form titled 'إضافة كارت جديد' (Add New Cart) with fields for 'فنة الكارت' (Cart Value) and 'سعر الكارت' (Cart Price). There are two buttons at the bottom: 'صوّد' (Save) and 'حفظ' (Save).

If the admin click button (تعديل) allow admin update record from table cart

The screenshot shows a form titled 'تعديل فنة الكروت' (Edit Cart Value) with fields for 'فنة الكروت' (Cart Value) and 'سعر الكارت' (Cart Price). There are two buttons at the bottom: 'تحديث' (Update) and 'حفظ' (Save).

If the admin click button (حذف) allow admin delete record from table cart

2 - company : (المؤسسات)

The screenshot shows a web-based application for managing companies. At the top, there is a navigation bar with links for 'الملف', 'المؤسسات', 'الفروع', 'ال CARTEROT', and 'admin123'. Below the navigation, the page title is 'المؤسسات'. A button labeled '+ إضافة مؤسسة' is visible. The main content area displays a table with three rows of company data:

المؤسسات	م
mobily	١
STC	٢
زين	٣

Each row contains two buttons: 'أغير هنا' (Edit) and 'أحذف هنا' (Delete).

If admin click button (إضافة مؤسسة) :

If admin click button (تعديل) get the update page of companyIf click

button (حذف) delete record from table company.

2 - Branches : (الفروع)

If admin click الفروع menu:

The screenshot shows a form for adding a new branch. The title of the form is 'لإضافة مؤسسة'. The form includes five input fields with labels:

- المؤسسة
- العنوان
- الايميل
- التليفون
- الجوال

At the bottom of the form are two buttons: 'جديد' (New) and 'حفظ' (Save).

If admin click button (إضافة فرع) :

The screenshot shows a web-based application interface for adding a new branch. The top navigation bar includes a logo, user information (admin123), and menu items in Arabic: الكروت, المؤسسات, الفروع. The main title is 'لإضافة فرع جديد'. The form fields are as follows:

المؤسسة	:	اختر المؤسسة...
الفرع	:	اختر المؤسسة.. mobily STC زنون
العنوان	:	_____
اسم المستخدم	:	_____
كلمة المرور	:	_____

At the bottom are two buttons: 'حذف' (Delete) and 'حفظ' (Save).

If admin click button (تعديل) get the update page of branch

If click button (حذف) delete record from table branch.

The screenshot shows a web-based application interface for editing a branch. The top navigation bar includes a logo, user information (admin123), and menu items in Arabic: الكروت, المؤسسات, الفروع. The main title is 'تعديل تالفرع'. The form fields are as follows:

المؤسسة	:	mobily
الفرع	:	القسم 2
العنوان	:	القسم 3 هي الخالية
العنوان	:	القسم 3 هي الخالية

At the bottom are two buttons: 'حذف' (Delete) and 'حفظ' (Save).

If employee sign in website loan write username and password show the page:

العميل	العميل	م
عبدالمجيد الحربي	mobily	١

If employee click menu العملاء the pervious page

If employee click إضافة عميل display the form insert customer

If employee click تعديل عميل display the form update customer

If click button (حذف) delete record from table customer.

If employee click menu أنشاء قرض display the page create loan

The screenshot shows a table with four columns. The first column contains the text 'دفع القسط الشهري' (Monthly payment) with a button below it labeled 'أنقر هنا' (Click here). The second column contains the text 'اختر للحذف' (Select for deletion) with a button below it labeled 'أنقر هنا' (Click here). The third column contains the text 'اختر للتعديل' (Select for modification) with a button below it labeled 'أنقر هنا' (Click here). The fourth column contains the text 'عبدالمجيد الحربي' and a status indicator 'م' (M) with a value '١' (1) below it. A blue header bar at the top right says 'الملاء أنشاء قرض'.

The screenshot shows a form titled 'إضافة قرض' (Add loan). It includes fields for 'اسم العميل' (Customer name), 'تاريخ القرض' (Loan date), 'فنة المارب' (Fene Al Marib), 'المبلغ الكلي للقرض' (Total loan amount), and 'مدة القسط' (Installment period). The form has a blue header bar at the top right saying 'الملاء أنشاء قرض'.

If employee click إضافة قرض display the form insert loan:

If employee click تعديل قرض display the form update loan:

click button (حذف) delete record from table loan.

The screenshot shows a table with four columns. The first column contains the text 'تعديل قرض' (Update loan) with a button below it labeled 'تعديل قرض'. The second column contains the text 'عبدالمجيد الحربي' and a status indicator 'م' (M) with a value '١' (1) below it. The third column contains the text 'اسم العميل' (Customer name) with a button below it labeled 'تعديل قرض'. The fourth column contains the text 'تاريخ القرض' (Loan date) with a button below it labeled 'تعديل قرض'. A blue header bar at the top right says 'الملاء أنشاء قرض'.

If employee click دفع القسط الشهري show the next page

الدفع الشهري للقرض					
حالة الدفع	القسط الشهري	تاریخ الدفع			الشهر
		السنة	الشهر	اليوم	م
تم الدفع	1037.5	1440	01	01	شهر 1
تم الدفع	1037.5	1440	02	01	شهر 2
تم الدفع	1037.5	1440	03	03	شهر 3
لم يتم الدفع	1037.5	السنة ...	الشهر ...	اليوم .	شهر 4
لم يتم الدفع	1037.5	السنة ...	الشهر ...	اليوم .	شهر 5
لم يتم الدفع	1037.5	السنة ...	الشهر ...	اليوم .	شهر 6
لم يتم الدفع	1037.5	السنة ...	الشهر ...	اليوم .	شهر 7
لم يتم الدفع	1037.5	السنة ...	الشهر ...	اليوم .	شهر 8
3112.5	اجمالي المدفوع	8300			اجمالي المبلغ

third : interface for customer

If customer sign in website loan write username and password show the page:

الدفع الشهري للقرض					
حالة الدفع	القسط الشهري	تاریخ الدفع			الشهر
		السنة	الشهر	اليوم	م
تم الدفع	1037.5	1440	01	01	شهر 1
تم الدفع	1037.5	1440	02	01	شهر 2
تم الدفع	1037.5	1440	03	03	شهر 3
لم يتم الدفع	1037.5	السنة ...	الشهر ...	اليوم .	شهر 4
لم يتم الدفع	1037.5	السنة ...	الشهر ...	اليوم .	شهر 5
لم يتم الدفع	1037.5	السنة ...	الشهر ...	اليوم .	شهر 6
لم يتم الدفع	1037.5	السنة ...	الشهر ...	اليوم .	شهر 7
لم يتم الدفع	1037.5	السنة ...	الشهر ...	اليوم .	شهر 8
3112.5	اجمالي المدفوع	8300			اجمالي المبلغ

Cod connect

```
<?php
$dsn='mysql:host=localhost;dbname=loan';
$user="root";
$pass="Mjodi123";
$option=array(
    PDO::MYSQL_ATTR_INIT_COMMAND => 'SET NAMES utf8',
);
try
{
    $con= new PDO($dsn,$user,$pass,$option);
    $con-
>setAttribute(PDO::ATTR_ERRMODE,PDO::ERRMODE_EXCEPTION);

}
catch(PDOException $e)
{
    echo 'Failed To Connect' . $e->getMessage();
}
?>
```

Cod login

```
<?php
session_start();

if (isset($_POST['submit'])) {

$name=$_POST['name'];
$pass=$_POST['pass'];
$passsha=sha1($pass);
$errorEmpty=false;
$nameEmpty=false;
$passEmpty=false;
if (empty($name) or empty($pass)) {
    echo "<span class='form-error'>يجب ملء جميع الحقول </span>";
}
else {

    $errorEmpty=false;
}
?>
<script>

$("#log-name,#log-password").removeClass("input-error");
var errorEmpty="php echo $errorEmpty ?&gt;";
var nameEmpty="<?php echo $nameEmpty ?&gt;";
var passEmpty="<?php echo $passEmpty ?&gt;";
if (errorEmpty==true){
    $("#log-name,#log-password").addClass("input-error");
}

if (errorEmpty==false ){

    &lt;?php
    include("connect.php");

    $stmt=$con-&gt;prepare("SELECT
*
FROM users
WHERE
        Username= ?
        AND
        Password= ?

");
    $stmt-&gt;execute(array($name,$passsha));
    $row=$stmt-&gt;fetch();
    $count=$stmt-&gt;rowCount();
    if ($count&gt;0){
        $_SESSION['Username']=$name;
    }
}</pre
```

```

$_SESSION['GroupID']=$row['GroupID'];
$_SESSION['ID']=$row['UserID'];

if ($_SESSION['GroupID']==2) {
$_SESSION['companyID'] = $row['companyID'];
$_SESSION['branchID'] = $row['branchID'];
}

?>

location.replace("trans.php");
<?php
}
?>
}
</script>

```

Cod logout

```

<?php
ob_start();

session_start();
session_unset();
session_destroy();
header('Location: index.html');
exit();
?>

```

Cod dashboard

```
<?php
session_start();

if (isset($_SESSION['Username']))
{
    $pageTitle='dashboard';
    include("includes/templates/header.php");
    include("includes/templates/navbar.php");

    include ("includes/templates/footer.php");

}

else
{
    header("Location: index.php");
    exit();
}
?>
```

Reference:

- PHP and MySQL Web Development, Fifth Edition
- <https://www.youtube.com/channel/UCSNkfKI4cU-55Nm-ovsvOHQ>
- MySQL Cookbook by Paul DuBois
- <https://www.youtube.com/user/alex1aa>
<https://www.a2hosting.com/kb/developer-corner/mysql/connect-to-mysql-using-php>
- Advanced JavaScript, Third Edition
- https://www.youtube.com/watch?v=1l_8nECYRvQ
- https://www.youtube.com/playlist?list=PLDoPjvoNmBAzAelcXA3_JsmSkPKOs9W-Y
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