

Web Programming Project

Team :

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Overview:

This project is a **HR system** as a website for a foundation to make the management operation easy. That foundation has many of departments but HR department has a privilege such as (add employee, delete employee, writing reports& calculate salary according to the HR evaluation). Also, the owner can view all reports of any employee in the foundation.

Requirements:

- 1) Distribute **privileges** to different accounts.
- 2) Make special account for **Owner**.
- 3) Make special account for **HR Admin**.
- 4) Make special account for **Employee** with his/her code & password.

- 5) **HR Admin** can **delete, update, search, calculate salary** and **view report**.
- 6) Each Employee can view his/her **Signing Report**.
- 7) Each Employee can view his/her **General Report**.
- 8) The employee can make a **Vacation Request**.
- 9) The employee can make a **Permission Request** either 2 hours or mission.
- 10) **Owner** can **View Reports**.

Stakeholders (actors):

1. Owner :

Owner of foundation can access on the website by his/her account and his/her privilege is view reports for any Employee only.

2. HR Admin :

HR Admin can access on the website by his/her account and his/her privileges are view add a new employee that was accepted, delete the account and any data which belongs to the employee who resigned or was fired, update employees data, search about any employee to view his/her report, can calculate the salary and this operation depend on taxes and his/her evaluation which depend on number of vacations, hours of permissions or missions and view the employees reports.

3. Employee:

Employee can access on the website by his/her account and able to read his/her report only.

Directory Structure:

First

Name	Date modified	Type	Size
css	٢٠١٩/٠٥/٠٤ ص ٠٨:٠٥	File folder	
img	٢٠١٩/٠٥/٠٤ ص ٠٨:٠٥	File folder	
js	٢٠١٩/٠٥/٠٤ ص ٠٨:٠٥	File folder	
php	٢٠١٩/٠٥/٠٤ ص ٠٩:٥٢	File folder	
stakeholder	٢٠١٩/٠٥/٠٤ ص ٠٨:٠٥	File folder	
index	٢٠١٩/٠٥/٠٣ م ٠٦:٢٣	Chrome HTML Docu...	3 KB

We put css files in css folder

We put the images files in img folder

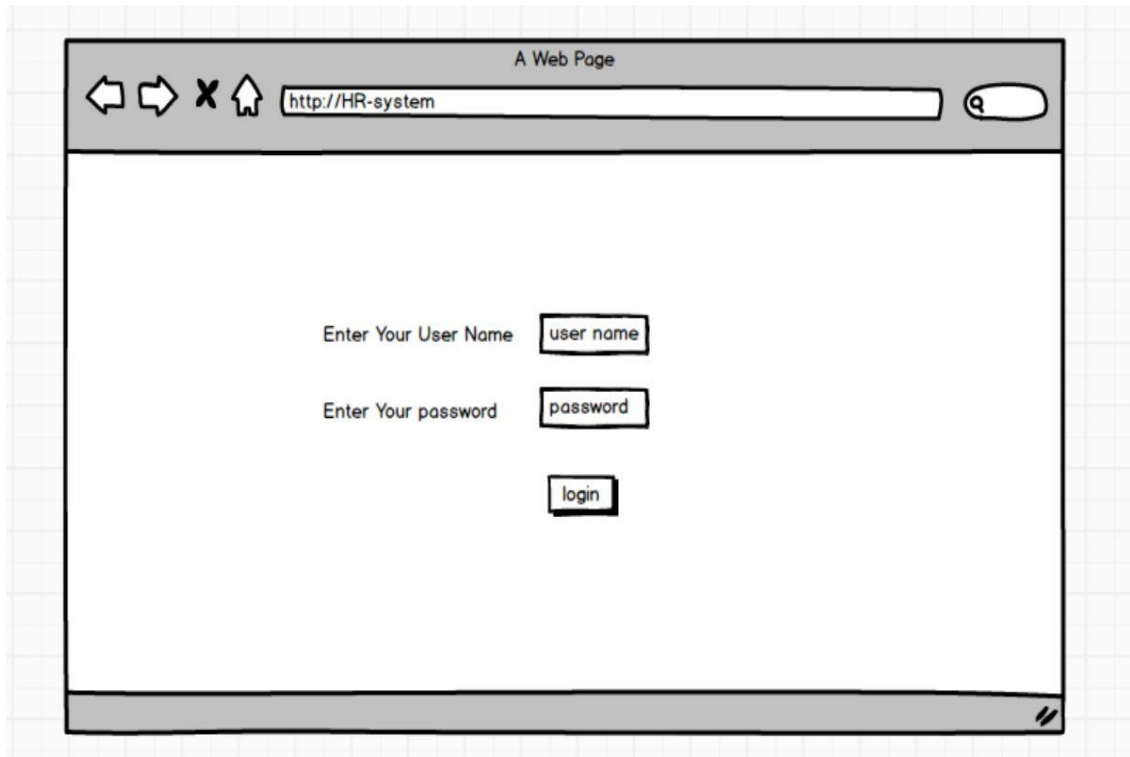
We put java script files in js folder

We put stakeholders pages like (owner, employee, HR Admin) stakeholder folder

And index.html is the first website page will show to the user

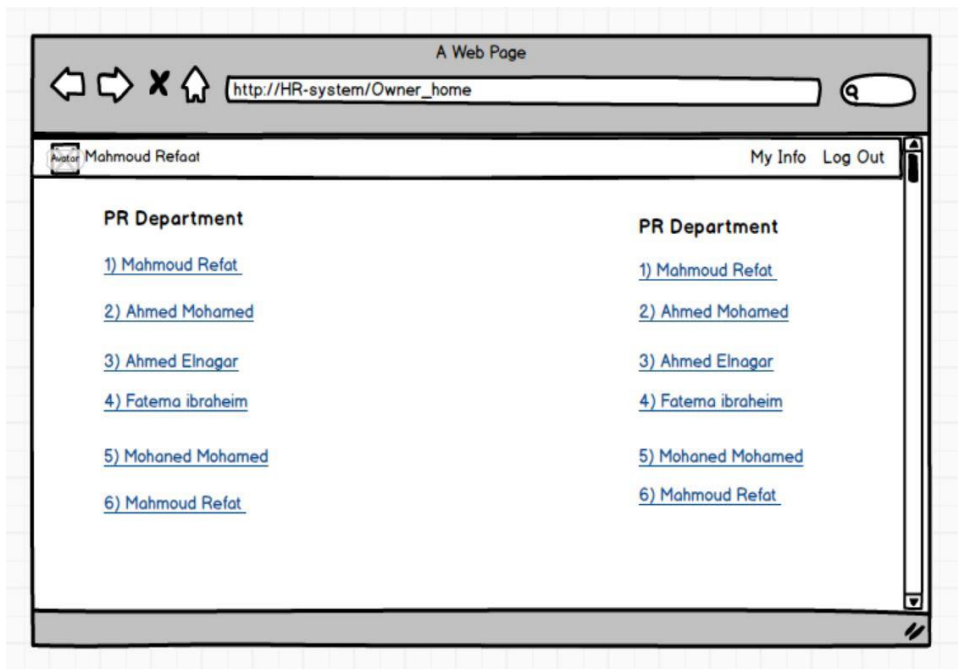
Wireframe (screenshot):

1. Registration:



2. Owner:

Owner home.



View Report for owner

A Web Page

http://HR-system/the_person_report_owner

Mahmoud Refaat My Info Log Out

PR Department : Ahmed Mohamed

Permissions

Number of Permissions month

Vacations

Number of Vacations per year

Salary

No. of arriving late in mins per day Slicing of late arrival

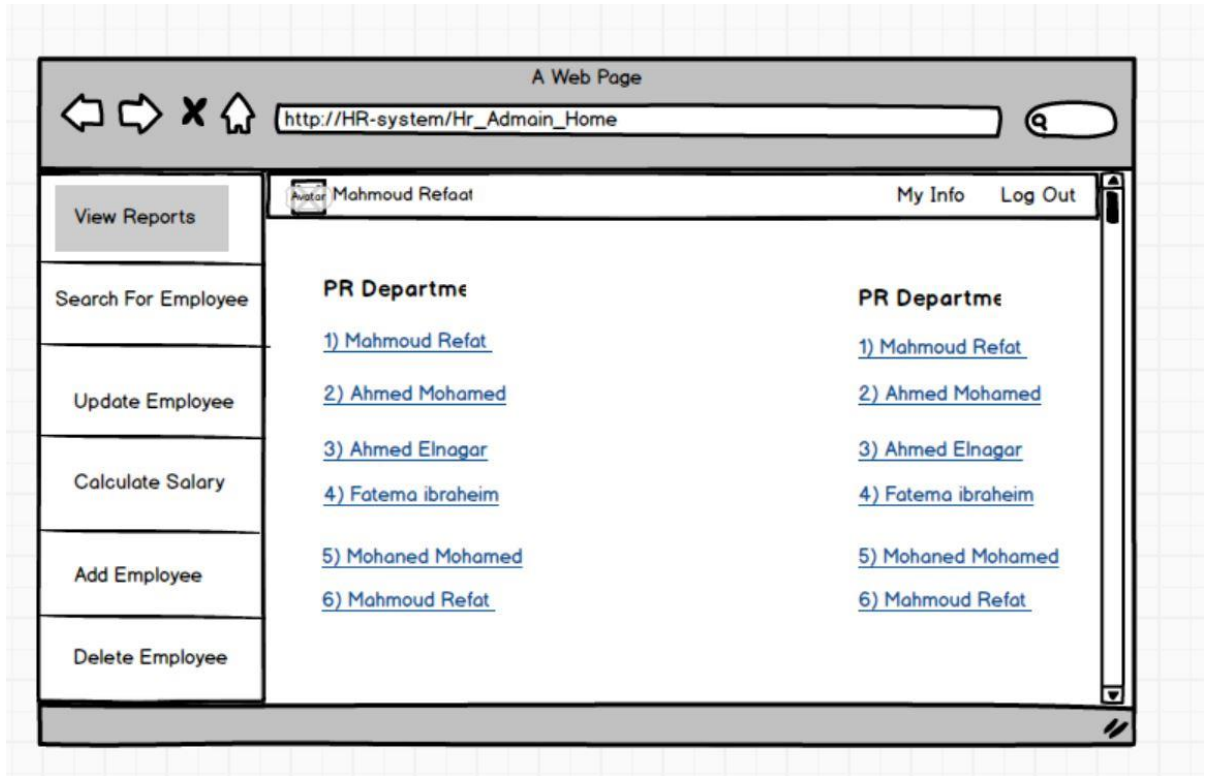
gross salary cut-off in pounds

Taxes Net-salary

Total salary : 12525

3. HR Admin

HR Admin Homepage (View Report)



Add Employee

A Web Page

http://HR-system/add-employee

My Info Log Out

View Reports

Search For Employee

Update Employee

Calculate Salary

Add Employee

Delete Employee

Add Employee

Code

F-name

Faculty

Department

Nationality

Gender

RF card No

L-name

Title

ADD Employee

Delete Employee

A Web Page

http://HR-system/delete

My Info Log Out

View Reports

Search For Employee

Update Employee

Calculate Salary

Add Employee

Delete Employee

write the employee code emp1102

Q search

Employee Info

Code

F-name

Faculty

Department

Nationality

Gender

RF card No

Delete Employee

Warning.....!

Are You Sure You Want To Delete This Employee

No Yes Delete

Update Employee

A Web Page

http://HR-system/update-employee

View Reports

Search For Employee

Update Employee

Calculate Salary

Add Employee

Delete Employee

Mahmoud Refaat

My Info Log Out

write the employee code emp1102 search

Update Employee

Code

F-name

L-name

Faculty

Department

Title

Nationality

Gender

RF card No

Update Employee

Search page

A Web Page
http://HR-system/search-employee

View Reports
Search For Employee
Update Employee
Calculate Salary
Add Employee
Delete Employee

Avatar Mahmoud Refaat
My Info
Log Out

write the employee code

Employee Info

Code
F-name
L-name
Faculty
Department
Title
Nationality
Gender
RF card No

Calculate Salary

A Web Page
http://HR-system/calculate-salary

View Reports
Search For Employee
Update Employee
Calculate Salary
Add Employee
Delete Employee

Avatar Mahmoud Refaat
My Info
Log Out

write the employee code

Salary Info

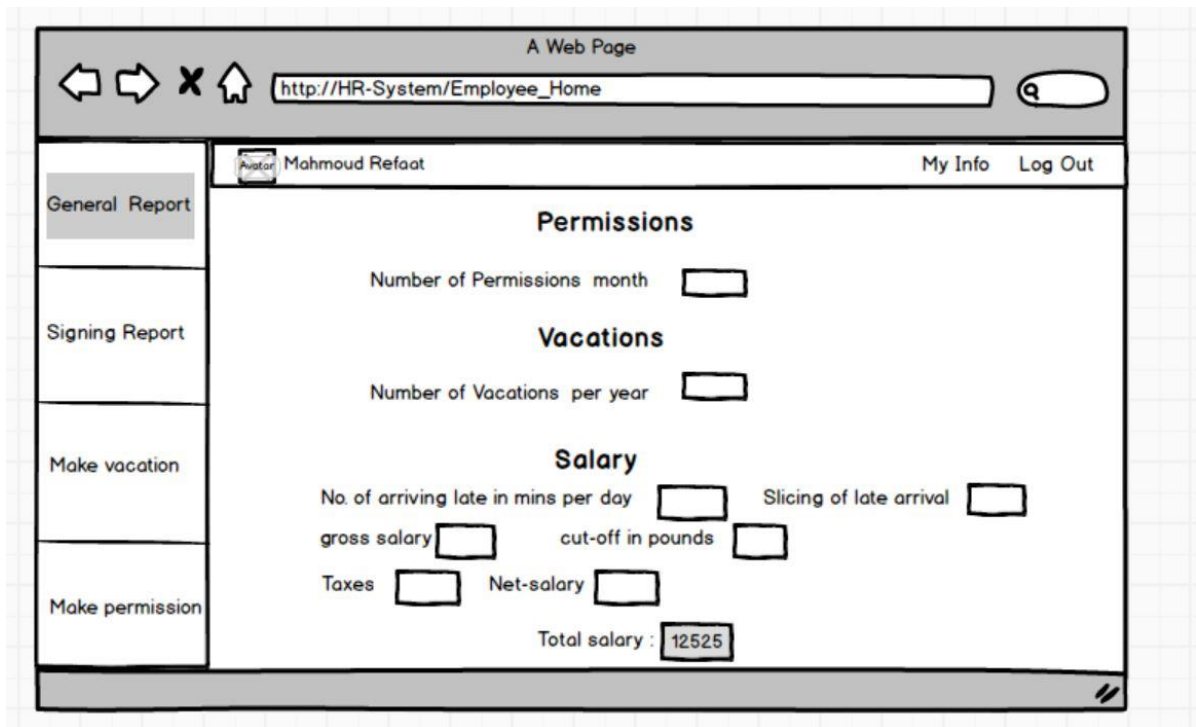
Code
No. of permission(s)
No. of vacation(s)
No. of arriving late in mins per day
Slicing of late arrival
gross salary
cut-off in pounds
Taxes
Net-salary
payment method

Cash
Visa
PayPal

Total salary :

4. Employee

Employee Homepage (General Report)



A Web Page

http://HR-System/Employee_Home

Mahmoud Refaat My Info Log Out

General Report

Signing Report

Make vacation

Make permission

Permissions

Number of Permissions month

Vacations

Number of Vacations per year

Salary

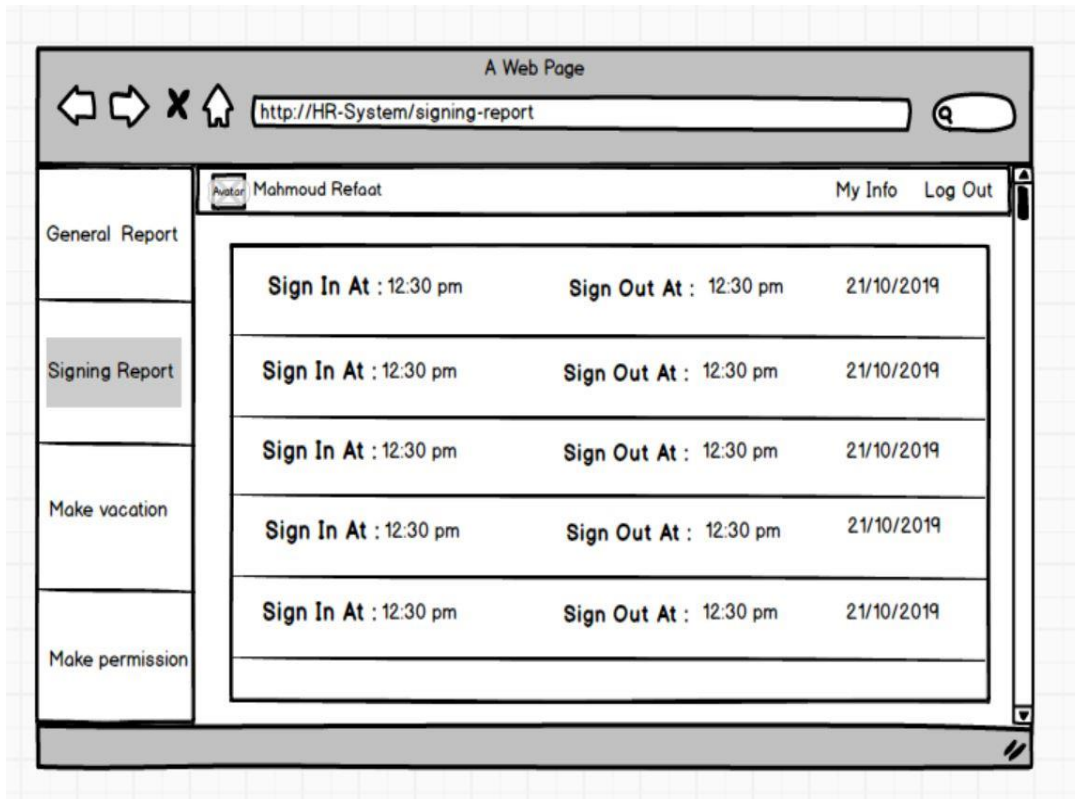
No. of arriving late in mins per day Slicing of late arrival

gross salary cut-off in pounds

Taxes Net-salary

Total salary : 12525

Signing Report



Make Vacation page

A Web Page

http://HR-System/make-vacation

Mahmoud Refaat My Info Log Out

General Report

Signing Report

Make vacation

Make permission

Total days of vacations 10

vacation status.

Code

Type

No. of days

Start-Date

End-Date

Make Vacation

Make permission page

A Web Page

http://HR-System/make-permission

Mahmoud Refaat My Info Log Out

General Report

Signing Report

Make vacation

Make permission

current count of permissions 10

Total counts of permissions 30

Permission Status

Code

Type

Reason

Departure-Time

Arrival-Time

Make premission

Sitemap (screenshot):

Employee

- [Employee Home](#)
- [Make permission](#)
- [Make Vacation](#)
- [Signing Report](#)
- [Employee Information](#)

Hr admin

- [Add employee](#)
- [calculate Salary](#)
- [delete employee](#)
- [Hr-Admin Home](#)
- [Search for employee](#)
- [employee Report](#)
- [Update employee](#)
- [hr Admin Information](#)

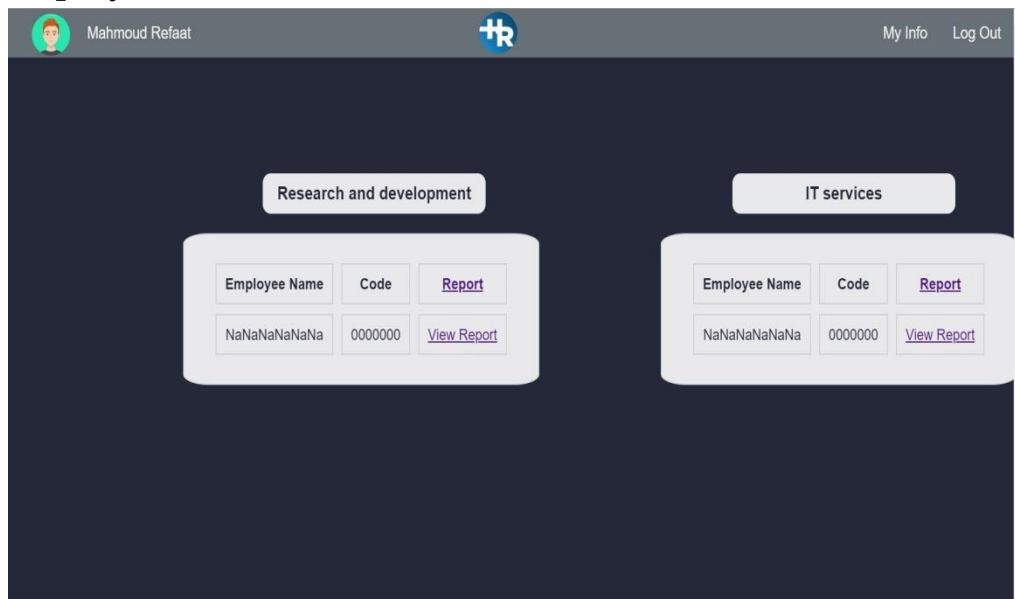
owner

- [Owner Home](#)
 - [employee report](#)
 - [owner Information](#)
-

Pages Role:

1. Owner pages:

“Owner Homepage” makes owner able to choose report of any employee.



“View Report for owner” in this page, the owner can read the report of the employee who was selected from him.

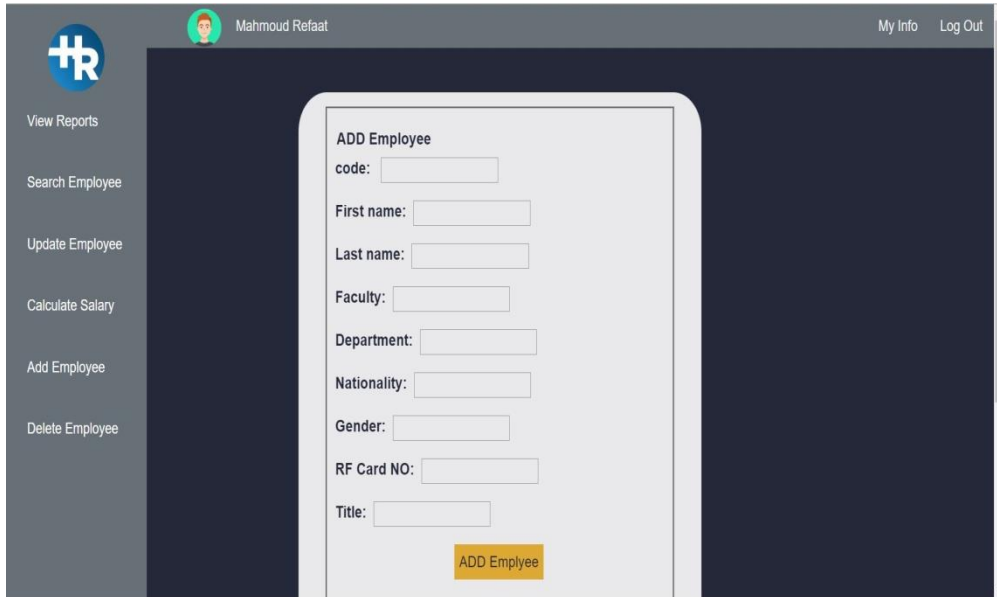
The screenshot shows a web application interface for an 'Employee Report'. At the top, there is a header bar with a user profile icon and name 'Mahmoud Refaat', a logo, and links for 'My Info' and 'Log Out'. The main content area features a light gray rounded rectangle containing the report form. The form has sections for 'Name' (with a text input 'NaNaNaNNaNa') and 'Code' (with a text input '0000'). Below this are sections for 'Permissions' (with 'Current count of permissions' set to '00'), 'Vacations' (with 'Total days of vacations' set to '00'), and 'Salary'. The 'Salary' section includes inputs for 'No of arriving late in min per day', 'slicing of late arrival', 'gross salary', 'cut-off in pounds', 'Taxes', 'Net salary', and a 'Total salary =' field with a value of '00000'. A 'Go Back' button is located at the bottom right of the form.

2. HR Admin pages:

“HR Admin Homepage” makes HR Admin able to choose report of any employee.

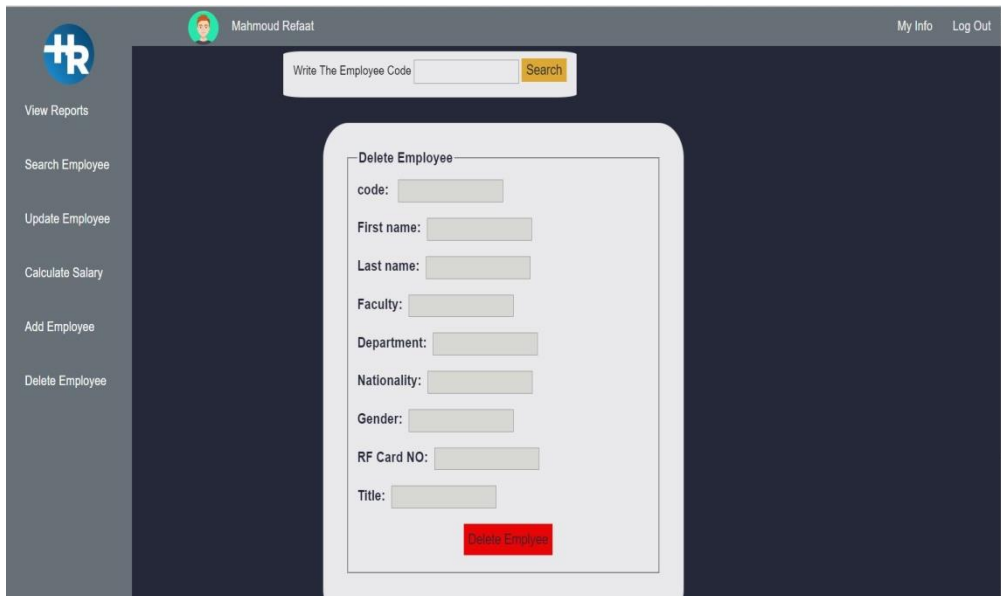
The screenshot displays the 'HR Admin Homepage'. The header bar is identical to the previous page, showing 'Mahmoud Refaat', a logo, and 'My Info' / 'Log Out' links. On the left side, there is a dark gray sidebar with a logo and a list of navigation links: 'View Reports', 'Search Employee', 'Update Employee', 'Calculate Salary', 'Add Employee', and 'Delete Employee'. The main content area has a dark blue background. It features two white rounded rectangles labeled 'Research and development' and 'IT services'. Each rectangle contains a table with two rows of employee data. The first row has headers 'Employee Name', 'Code', and a blue 'Report' link. The second row has values 'NaNaNaNNaNa', '0000000', and a blue 'View Report' link.

“Add Employee page” makes HR Admin able to add Information of new employee.



The screenshot shows the 'Add Employee' page of a web application. The interface includes a top navigation bar with the user's name 'Mahmoud Refaat' and links for 'My Info' and 'Log Out'. A left sidebar contains a menu with options: 'View Reports', 'Search Employee', 'Update Employee', 'Calculate Salary', 'Add Employee' (highlighted), and 'Delete Employee'. The main content area features a form titled 'ADD Employee' with the following fields: 'code:', 'First name:', 'Last name:', 'Faculty:', 'Department:', 'Nationality:', 'Gender:', 'RF Card NO:', and 'Title:'. Each field is represented by a text input box. A yellow 'ADD Employee' button is positioned at the bottom right of the form.

“Delete Employee page” makes HR Admin able to delete Information of employee who resigned or was fired.



The screenshot shows the 'Delete Employee' page of the same web application. The top navigation bar and left sidebar are identical to the previous page. The main content area features a search bar at the top with the placeholder text 'Write The Employee Code' and a yellow 'Search' button. Below the search bar is a form titled 'Delete Employee' with the same set of fields as the 'Add Employee' page: 'code:', 'First name:', 'Last name:', 'Faculty:', 'Department:', 'Nationality:', 'Gender:', 'RF Card NO:', and 'Title:'. A red 'Delete Employee' button is located at the bottom right of the form.

“Search page” makes HR Admin able to search about employee with his/her code to view his Information.

The screenshot shows the HR Admin interface with a dark blue sidebar on the left containing a logo and a list of menu items: View Reports, Search Employee, Update Employee, Calculate Salary, Add Employee, and Delete Employee. The main content area has a top header with a user profile icon, the name 'Mahmoud Refaat', and links for 'My Info' and 'Log Out'. Below the header is a search bar with the placeholder text 'Write The Employee Code', an input field, and a yellow 'Search' button. The central part of the page displays a white box titled 'Employee Information' containing several form fields: 'code:', 'First name:', 'Last name:', 'Faculty:', 'Department:', 'Nationality:', 'Gender:', 'RF Card NO:', and 'Title:'. Each field has a corresponding input box.

“Update Employee Page” makes HR Admin able to edit Information of employee.

The screenshot shows the HR Admin interface, similar to the previous one, but with the 'Update Employee' menu item selected in the sidebar. The main content area features the same top header and search bar. The central white box is titled 'Update Employee Information' and contains the same set of form fields as the search page: 'code:', 'First name:', 'Last name:', 'Faculty:', 'Department:', 'Nationality:', 'Gender:', 'RF Card NO:', and 'Title:'. Each field has a corresponding input box. A yellow 'Update Employee' button is located at the bottom right of the form box.

“Calculate Salary Page” makes HR Admin calculate the salary and this operation depend on taxes and his/her evaluation which depend on number of vacations, hours of permissions or missions.

Write The Employee Code

salary info

code:

No.of permissions:

No.of vacation(s):

No.of arriving late in min per day:

slicing of late arrival :

gross salary:

cut-off in pounds:

Taxes:

Net salary:

Payment Method:

Total salary =

“View Report Page” makes HR Admin able to read the report of the employee who was selected from him.

Employee Report

Name : Code :

Permissions

Current count of permissions:

Vacations

Total days of vacations:

Salary

No.of arriving late in min per day:

slicing of late arrival :

gross salary:

cut-off in pounds:

Taxes:

Net salary:

Total salary =

3. Employee Pages:

“General Report” in this page, the employee will see his/her general report which includes permissions, vacations and salary Information.

The screenshot shows a web application interface for an employee named Mahmoud Refaat. The page is titled "My General Report" and displays a form with the following sections:

- Name:** hahahaha Code: 9999
- Permissions:** Current count of permissions: 00
- Vacations:** Total days of vacations: 00
- Salary:**
 - No of arriving late in min per day: [input field]
 - slicing of late arrival: [input field]
 - gross salary: [input field]
 - cut-off in pounds: [input field]
 - Taxes: [input field]
 - Net salary: [input field]
 - Total salary = 00000

The left sidebar contains navigation links: General Report, Signing Report, Make vacation, and Make permission. The top right corner has "My Info" and "Log Out" links.

“Signing Report” for recording the time of employee entry on website.

The screenshot shows the "Signing Report" page in the same web application. The page is titled "Signing Report" and displays a form with the following sections:

- Sign In Time:** 00.00
- Sign Out Time:** 00.00
- Date:** 00/00/0000

The left sidebar contains navigation links: General Report, Signing Report, Make vacation, and Make permission. The top right corner has "My Info" and "Log Out" links.

“Make vacation” makes employee make vacation request.

The screenshot shows a web application interface for a user named Mahmoud Refaat. The left sidebar contains a menu with the following items: General Report, Signing Report, Make vacation (highlighted), and Make permission. The main content area displays a form for making a vacation request. The form includes the following fields and controls:

- Total days of vacations: 00
- Vacations Status: Good
- code :
- Type :
- No of Days :
- Start-Data :
- End-Data :
- Send Vacation Request (button)

“Make permission” makes employee make permission request.

The screenshot shows the same web application interface, but with the 'Make permission' option highlighted in the sidebar. The main content area displays a form for making a permission request. The form includes the following fields and controls:

- Current count of permissions: 00
- Total count of permissions: 00
- Permission status : Good
- code :
- Type :
- Reason :
- Departure-Time : --:-- --
- Arrival-time: --:-- --
- Send Permission Request (button)

Microdata:

The screenshot shows the Google Microdata Tester interface. On the left, a table displays the structured data (JSON-LD) for a 'Person' entity. On the right, the corresponding HTML output is shown, where the microdata is embedded within the HTML tags.

Person	type@
ahmed elnagar	name
Thebes Acadmy	affiliation
(student (cs	title
	address
Address	type@
El khanka	region
cairo	locality

```
1      section itemscope itemtype="http://data-
2      <"vocabulary.org/perso
3      <h2 itemprop="name"> ahmed elnagar </h2
4      p> i student for<span itemprop="affiliation"> Thebes Acadmy
5      <</spa
6      <as a <span itemprop="title"> student (cs)</spa
7      "address itemprop="address
8      <"itemscope itemtype="http://data-vocabulary.org/address
9      <span itemprop="region"> El khanka </span
10     <span itemprop="locality"> cairo </span
        <address/
        <section/
```

Database:

HR system has database to make HR Admin able to do the operations (add, delete, update, search).

Database has 4 tables, in first table which name is "users" has

ID: the user id and it,s primary
Username : the user username
Password: user password
UType: the user type
(admin/Emp/Own)
ControlType : the control in
database if (just Read or Read-Write)

Second table is "employee Info", to record Information about all employees that was recorded by HR Admin. It has

Code, F-name, L-name, Faculty,
Department, Title, Nationality,
Gender, Finger-Print, Arrival-Time,

Departure-Time, Face-Print, RF card No., Hiring-Date, Birth date, Mobile, Address, and Personal-Email & organizational-Email.

Third table is “employee vacation”, to make HR Admin able to view the vacation request to accept it which has

Code, Type, No. of days, Start-Date, End-Date, Total days of vacations & vacation status.

Fourth table is “employee permission”, to make HR Admin able to view the permission request to accept it which has

Code, Type, Reason, Departure-Time, Arrival-Time, current count of permissions, Total counts of permissions & Permission Status.

Fifth table is “employee salary”, to record the salary after doing the operations on it which has

Code , No. of permission(s) , No. of vacation(s) , No. of arriving late in mins per day , Slicing of late arrival, gross salary , cut-off in pounds, taxes , net-salary , payment method.

CSS code:

Navigation bar

```
11 ▼      #ul-nav-Header{
12          background-color:#677077;
13          overflow:hidden;
14          height:50px;
15          z-index:2;
16          top:0;
17          left:0;
18          margin-block-start: 0em;
19          padding-inline-start:0px;
20
21      }
22
23 ▼      #ul-nav-Header a{
24          float:left;
25          display:block;
26          color:#f2f2f2;
27          text-align:center;
28          padding:15px 16px;
29          text-decoration:none;
30          font-size:17px;
31      }
32
33 ▼      #ul-nav-Header li{
34          /*margin:8px 0 0 0;*/
35          list-style:none;
36          display: inline;
37      }
38
39 ▼      /*#ul-nav-Header a:hover{
40          background-color:#f2b632;
41          color:#000;
42      }*/
43 ▼      #header_info a:hover{
44          background-color:#f2b632;
45          color:#000;
46      }
47 ▼      #header_logout a:hover{
48          background-color:red;
49          color:fff;
50      }
```

Javascript code:

To make an alert to ask user that he/she want to delete or no.

```

18 <script>
19 function Delete_Warning() {
20     var x;
21     if (confirm(" Warning.....! Are You Sure You Want To Delete This Employee") == true) {
22         x = "Yes Delete ";
23     }
24     else
25     {
26         x = "No!";
27     }
28     document.getElementById("demo").innerHTML = x;
29 }
30
31 </script>

```

To make any field in the form not empty.

```

30 function notEmpty(elem, helpermsg){
31     if(elem.value.length==0)
32     { return true; }
33 } else{
34     alert(helpermsg);
35     elem.focus();
36     return false;
37 }

```

To make user input numbers only.

```

3 function Numric(elem, helpermsg){
4     var NumricExpression = /^[0-9]+$/;
5     if(elem.value.match(NumricExpression))
6     { return true; }
7 } else{
8     alert(helpermsg);
9     elem.focus();
10    return false;
11 }
12 }

```

The database Connection:

We made a connection to get the employees names and It's code

so First

Web put the connection in connection.php file and the connection code is

```
$con = mysqli_connect('localhost', 'root', '', 'newdatabase');
```

Then we include the file and we make a query

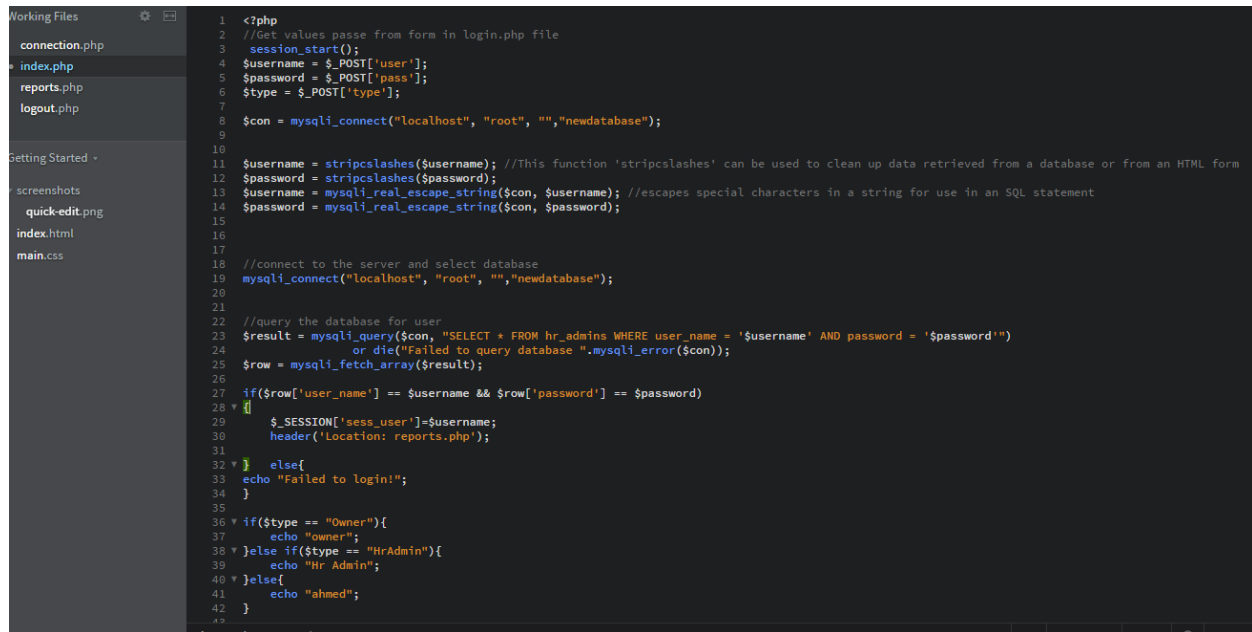
```
include_once('connection.php');  
  
$query="select * from users";  
  
$result=mysqli_query($con,$query);
```

Then

We made a loop to fetch the row data and put it in the table description

```
while($rows=mysqli_fetch_assoc($result)){  
    if($rows['department'] == "Research and development")  
    {  
        ?>  
  
        <tr> <td id="d_name"><?php echo $rows['username']; ?></td>  
        <td id="d_department"> <?php echo $rows['code']; ?></td>  
  
        <td id="view_report">  
        <a href="#">View Report</td></tr>  
    }  
}
```


And the register connection should be



```
1 <?php
2 //Get values passe from form in login.php file
3 session_start();
4 $username = $_POST['user'];
5 $password = $_POST['pass'];
6 $type = $_POST['type'];
7
8 $con = mysqli_connect("localhost", "root", "", "newdatabase");
9
10
11 $username = stripslashes($username); //This function 'stripslashes' can be used to clean up data retrieved from a database or from an HTML form
12 $password = stripslashes($password);
13 $username = mysqli_real_escape_string($con, $username); //escapes special characters in a string for use in an SQL statement
14 $password = mysqli_real_escape_string($con, $password);
15
16
17 //connect to the server and select database
18 mysqli_connect("localhost", "root", "", "newdatabase");
19
20
21
22 //query the database for user
23 $result = mysqli_query($con, "SELECT * FROM hr_admins WHERE user_name = '$username' AND password = '$password'")
24 or die("Failed to query database ".mysqli_error($con));
25 $row = mysqli_fetch_array($result);
26
27 if($row['user_name'] == $username && $row['password'] == $password)
28 {
29     $_SESSION['sess_user']=$username;
30     header('Location: reports.php');
31 }
32 } else{
33     echo "Failed to login!";
34 }
35
36 if($type == "Owner"){
37     echo "owner";
38 } else if($type == "HrAdmin"){
39     echo "Hr Admin";
40 } else{
41     echo "ahmed";
42 }
43
```

AND the used functions made to apply a change upon DB tables

Should be

```
$user=$_POST['usernme'];
```

```
$pass=$_POST['password'];
```

```
$query=mysqli_query("SELECT * FROM users WHERE
username='".$user.'");
```

```
$numrows=mysqli_num_rows($query);
```

```
if($numrows==0)
```

```
{
```

```
$sql="INSERT INTO login(username,password)
VALUES('$user','$pass)";

$result=mysql_query($sql);
}
```