

DongshengCao

by Dongsheng Cao

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Human Resource System of Zheng Yuan Electric Company

Introduction

This information system is designed for a electric company named Zheng Yuan and the main function of this system is to manage the information of the employees and administrators in the five departments – management, human resource, information center, assembly workshop and the processing workshop. In addition this system also can allow applicants to record their information to the company and the administrator of the company can check the information of them and contact them through the email they left in the system.

PHP is a general open source scripting language. The grammar absorbs the characteristics of C language, Java and Perl, is conducive to learning, and is widely used, mainly for the field of Web development. PHP's unique syntax mixes C, Java, Perl, and PHP's own syntax. It can execute dynamic web pages faster than CGI or Perl. Dynamic pages made with PHP Compared to other programming languages, PHP embeds programs into HTML (an application under the standard general-purpose markup language) document for execution, which is much more efficient than CGI that fully generates HTML markup; PHP can also execute compiled code, compile to achieve encryption and optimize code execution, making the code run faster.

database

First of all, in this document I would like to talk about the database. In this database, there are five tables – people, departmentlist, salarylist, authoritylist, applicantlist.

The table of people

				pid	firstname	surname	dob	department	salary	account	password	authority
☐				18	Xuxu111	li	07081995	1	1	18033441	123456	2
☐				17	Huihui	Qin	23031988	3	4	1805666	123456	1
☐				4	Tom	James	15091991	4	3	1802222	222222	2
☐				6	Dongsheng	Cao	11101987	5	3	1805155	123456	1
☐				7	Haieri	Hu	30091992	3	1	1803333	333333	2
☐				8	Lisa	Bev	10061989	3	3	1804444	444444	2
☐				11	Xinyuan	Zhang	15051994	1	4	1801111	111111	1
☐				10	Jenny	Ada	22111993	3	3	1805100	123455	1
☐				14	Xiao	Li	11091992	2	2	1809921	123456	2

This table is the main table of the database to record the information of people in this company. In details, there are 9 columns in this table, which are the pid, firstname, surname, date of birth, department, salary, account, password, authority.

- The pid column – it is the primary key in this table and it is the a automatic column to grow with the new record.

- The firstname, surname columns – these two columns is to record people’s firstname and surname.
- The Date of birth column – it is to record people’s age and the specific date of birth of them. The format of it is DDMMYYYY.
- The department column – this one is to record the department people works and the type of it is int(10), which links the table of departmentlist by the column of did in departmentlist. The table of departmentlist shows as following:

The table of departmentlist

							did	dpmt
☐		Edit		Copy		Delete	1	management
☐		Edit		Copy		Delete	2	humanresource
☐		Edit		Copy		Delete	3	information center
☐		Edit		Copy		Delete	4	assembly workshop
☐		Edit		Copy		Delete	5	processing workshop

The dpmt column of departmentlist is to show the category of departments.

- The salary column – this one is to record the salary of every people and the type of it is int(10), which links the table of salarylist by the column of sid in salarylist. The table of salarylist shows as following:

The table of salarylist

T						sid	number	
		Edit		Copy		Delete	1	1000
		Edit		Copy		Delete	2	2000
		Edit		Copy		Delete	3	3000
		Edit		Copy		Delete	4	4000

The number in the table is to show the number of the category of salary.

- The account, password column – the function of these two columns is to access the system in the interface of Login.php as the username and the password.
- The authority column – this one is to record the authority of every people and to check whether this people is the administrator who can edit, delete and add new record in the system. In addition, the type of it is int(10), which links the table of authoritylist by the column of aid in authoritylist. The table of authoritylist shows as following:

The table of authoritylist

					aid	a_category
☐		Edit		Copy		Delete
					1	administrator
☐		Edit		Copy		Delete
					2	employee
☐		Edit		Copy		Delete
					3	boss

This table shows that there are three authorities, administrator, employee, boss, in the column of a_category. The administrator and the boss has more authority to edit, delete and add new record in the system and check the information of applicants, but the employee cannot do this. They just can search some information.

The table of applicant

					applicant_id	firstname_applicant	surname_applicant	dob_applicant	department_applicant	emailaddress
☐		Edit		Copy		Delete				
					2	Qingjiao	Xv	18121995	management	137587273@outlook.com
☐		Edit		Copy		Delete				
					7	Yan	Zhang	23111992	human resource	988321667@qq.com
☐		Edit		Copy		Delete				
					11	Yueyao	Hu	07081995	management	312757829@qq.com

☐ Check all
 With selected:
 Edit
 Copy
 Delete
 Export

The table of applicant consists of 6 columns – applicant_id, firstname_applicant, surname_applicant, dob_applicant, department_applicant, emailaddress.

The web interface of the system

The first Login interface:

Welcome to Human Resource System of Zheng Yuan Electric Company

Please log in

Your username

Your password

Login

Not a member yet ? [Join us](#)

The function of this interface is to display the text boxes to input the information of username and the password with two buttons – Login, Join us. The Login button is to send the information people written in the two text boxes to the next step.

the Join us interface:

The main function of this page is for applicant to record their information and their desired department of the company in the system. In details, this action will record applicant information in the table of applicantlist of the database. On this Page there are 5 text boxes to record information that is respectively firstname, surname, date of birth, contact email address and the desired department. In addition, there is a button to apply and confirm the operation and a link to go back to the first page.

In the first Login interface, when click the Join us button, this page will display as following:

Welcome to Human Resource System of Zheng Yuan Electric Company

A screenshot of a web form titled 'Join us' for the 'Human Resource System of Zheng Yuan Electric Company'. The form contains five input fields: 'Firstname' with the value 'F: Dongsheng', 'Surname' with 'S: Cao', 'Date of Birth' with a placeholder 'dd MMYYYY', 'Contact Email Address' with 'email: 3331266977@outlook.com', and 'Department' with a dropdown menu showing 'dept: management or human resource or ... please check the guidance of'. Below the fields is a blue 'Apply' button and a blue link 'Back to home'.

The second Login page:

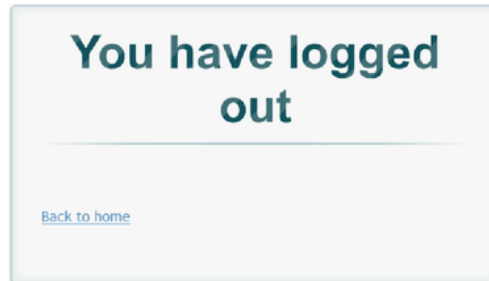
Welcome to Human Resource System of Zheng Yuan Electric Company

A screenshot of a web page titled 'Welcome 1805155'. Below the title is a link 'Welcome page'. At the bottom, there is a 'Log out ->' link and a blue 'Log out' button. The page has a light blue and white striped background at the bottom.

When people click the Login button in the first Log in page after filling the text boxes, this page will display. The function of page is to display the result of Login. There is a link named Welcome page that is the main function page of this system and a Log out button to log out.

The Log out page:

Welcome to Human Resource System of Zheng Yuan Electric Company



When click the Log out button in the second Login page, the Log out page will display. This page just to notice people have logged out and people go back to the first log in page to change the user by clicking the link named Back to home.

The Welcome page:

If the account is the administrator people, the welcome page shows as following:

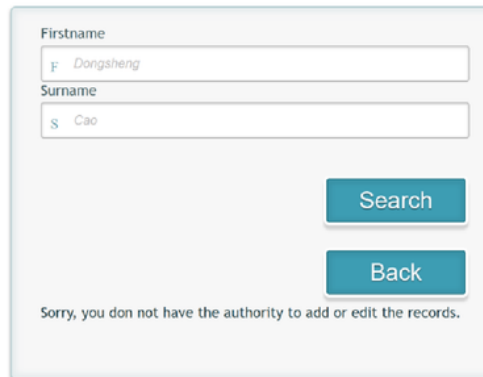
Welcome to Human Resource System of Zheng Yuan Electric Company

A screenshot of a web form with a light blue background. The form has two text input fields: 'Firstname' and 'Surname'. The 'Firstname' field contains the text 'F Dongsheng' and the 'Surname' field contains the text 'S Cao'. Below these fields are two blue buttons: 'Search' and 'Back'. At the bottom of the form, there are two small, blue, underlined links: 'Enter new data' and 'Check the Applicant List'.

When click the Link named Welcome page in the second log in page, this page will display, which is the main function page of this information system. There are two text boxes to fill the information of firstname and surname. The Search button is to apply and confirm the information then turn to the next page which is the information about the people through the firstname and surname filled in welcome page. The Back button is to go back to the second log in page.

If the account is not the administrator people, the welcome page shows as following:

Welcome to Human Resource System of Zheng Yuan Electric Company



Firstname
f: Dongsheng

Surname
S: Cao

Search

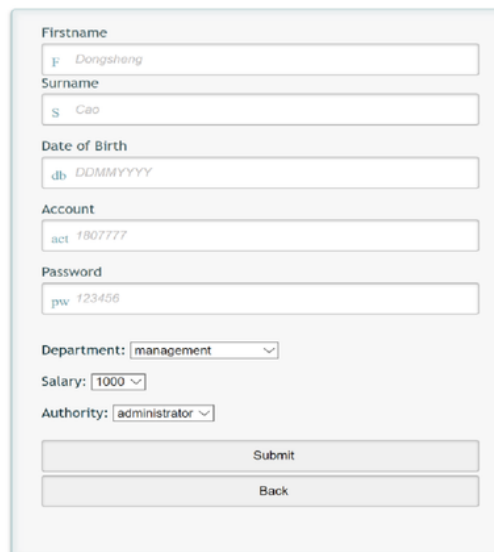
Back

Sorry, you don not have the authority to add or edit the records.

In a word, the administrator account can do more operations. In this page, the administrator account can enter new data, and check the applicant list.

- Enter new data - when click the Enter new data button, the next page will display as following:

Welcome to Human Resource System of Zheng Yuan Electric Company



Firstname
f: Dongsheng

Surname
S: Cao

Date of Birth
db: DDMYYYYY

Account
act: 1807777

Password
pw: 123456

Department: management

Salary: 1000

Authority: administrator

Submit

Back

In this page, administrator can add a new people information in the table of people in the database of this system. There are 5 text boxes – firstname, surname, date of birth, account,

password. What's more, there are also three selection boxes in the page named Department, Salary, Authority. And two buttons.

- The 5 text boxes of firstname, surname, date of birth, account, password – the basic information of a people.
 - The three selection boxes in the page named Department, Salary, Authority – select the department, salary, authority of this people.
 - The submit button – submit the information above to the database in the table of people.
 - The Back button – go back to the Welcome page and to do other operations.
- Check the Applicant List - when click the Check the Applicant List button, the next page will display as following:

Welcome to Human Resource System of Zheng Yuan Electric Company

```
-----Information of Qingjiao Xv-----  
Firstname: Qingjiao  
Surname: Xv  
Date of Birth: 18121995  
Department: management  
Email: 137587273@outlook.com  
-----Information of Yan Zhang-----  
Firstname: Yan  
Surname: Zhang  
Date of Birth: 23111992  
Department: human resource  
Email: 988321667@qq.com  
-----Information of Yueyao Hu-----  
Firstname: Yueyao  
Surname: Hu  
Date of Birth: 07081995  
Department: management  
Email: 312757829@qq.com  
  
GO BACK TO WELCOME PAGE
```

In this page, administrator can check the applicant information in the table of applicantlist in the database of this system. There are several records – firstname, surname, date of birth, desired department and the email address of a applicant and administrator can contact applicant by email address. What's more, there is also a link named GO BACK TO THE WELOCME PAGE to go back to the welcome page.

The Search page:

If the account is the administrator people, the search page shows as following:

Welcome to Human Resource System of Zheng Yuan Electric Company

Firstname
F Dongsheng

Surname
S cao

Search

Back

[Enter new data](#) [Check the Applicant List](#)

Welcome to Human Resource System of Zheng Yuan Electric Company

-----Information of Dongsheng Cao-----

Pid: 6
Firstname: Dongsheng
Surname: Cao
Date of Birth: 11101987
Department: processing workshop
Authority: administrator
Salary: 3000

Delete

Edit

[GO BACK TO WELCOME PAGE](#)

In welcome page, if fill the text boxes and click the search button, the search page will display. In the search page, there is the detailed information of the people filled the name in the welcome page – the pid, date of birth, department, authority and the salary. In addition, only the administrator can view these two buttons named Delete and Edit. On the bottom of the page, there is a link named GO BACK TO WELCOME PAGE, clicking it to go back to the welcome page to search another information or do something else.

- Delete button – delete this record.
- Edit button – go to the edit page to change some information of this people.

If the account is not the administrator people, the search page shows as following:

Welcome to Human Resource System of Zheng Yuan Electric Company

-----Information of Dongsheng Cao-----

Firstname: Dongsheng
Surname: Cao
Date of Birth: 11101987
Department: processing workshop
Authority: administrator
Salary: 3000

[GO BACK TO WELCOME PAGE](#)

The account not the administrator just can search some information but cannot delete and edit the record.

The code of the control of authority in this page:

```
$query="SELECT * FROM people, salarylist, departmentlist, authoritylist
        WHERE salary=sid AND department=did          AND authority=aid
        AND firstname LIKE '%$fn%'
        AND surname LIKE '%$sn%';
$result=mysqli_query($link,$query);
$un=$_SESSION["username"];//echo $un;

$query1="SELECT * FROM people, authoritylist
        WHERE authority=aid AND account LIKE '$un';
$result1=mysqli_query($link,$query1);

while($r1=mysqli_fetch_array($result1))//get row
{
    //echo $r["a_category"]."<br><br>";
    if ($r1["a_category"]=="administrator")
    {
        while($r=mysqli_fetch_array($result))//get row
        {
            //echo $r["pid"]." ";
            //get id field in row
            echo "-----Information of ".$r["firstname"].".".$r["surname"]."-----<br>";
            echo "Pid: ".$r["pid"]."<br>";
            echo "Firstname: ".$r["firstname"]."<br>";
            //get firstname field in row
            echo "Surname: ".$r["surname"]."<br>";
            echo "Date of Birth: ".$r["dob"]."<br>";
            echo "Department: ".$r["dpmt"]."<br>";
            echo "Authority: ".$r["a_category"]."<br>";
            echo "Salary: ".$r["number"]."<br>";

            ?><form action="delete.php" method="post">
                <input type="hidden" value="<?echo $r["pid"];?>" name="theid">
                <input type="submit" value="Delete">
            </form>
            <form action="changedata.php" method="post">
                <input type="hidden" value="<?echo $r["pid"];?>" name="theid">
                <input type="submit" value="Edit">
            </form> <?

        }
    }
}
}
else
```

```

{
    while($r=mysqli_fetch_array($result))//get row
    {
        //echo $r["pid"]." ";           //get id field in row
        echo "-----Information of ".$r["firstname"]." ".$r["surname"]."-----<br>";
        echo "Firstname: ".$r["firstname"]."<br>"; //get firstname field in row
        echo "Surname: ".$r["surname"]."<br>";
        echo "Date of Birth: ".$r["dob"]."<br>";
        echo "Department: ".$r["dpmt"]."<br>";
        echo "Authority: ".$r["a_category"]."<br>";
        echo "Salary: ".$r["number"]."<br>";
    }
}
}?:>

```

The Edit page:

Welcome to Human Resource System of Zheng Yuan Electric Company

Edit record

Firstname
F: Dongsheing

Surname
S: Cao

Date of Birth
dob: DDMYYYYY

Account
act: 1807777

Password
pw: 123456

Department: management

Salary: 1000

Authority: administrator

Edit

In the search page, if the account is administrator, clicking the edit button, this page will display. The function of this page is to change any information of this people. However, if the account is not administrator, this function cannot be used.

Note

- Changed the table of people, applicantlist and authoritylist in the database.

				aid	a_category
☐				1	administrator
☐				2	employee
☐				3	boss
☐				4	applicant

added applicant in the authoritylist.

				pid	firstname	surname	dob	department	salary	account	password	authority	email
☐				18	Xuxu111	li	07081995	1	1	18033441	123456	2	NULL
☐				17	Huihui	Qin	23031988	3	4	1805666	123456	1	NULL
☐				4	Tom	James	15091991	4	3	1802222	222222	2	NULL
☐				6	Dongsheng	Cao	11101987	5	3	1805155	123456	1	NULL
☐				7	Haieri	Hu	30091992	3	1	1803333	333333	2	NULL
☐				8	Lisa	Bev	10061989	3	3	1804444	444444	2	NULL
☐				11	Xinyuan	Zhang	15051994	1	4	1801111	111111	1	NULL
☐				10	Jenny	Ada	22111993	3	3	1805100	123455	1	NULL
☐				14	Xiao	Li	11091992	2	2	1809921	123456	2	NULL
☐				19	Yueyao	Hu	12031997	1	3	1809999	123456	3	137587273@qq.com

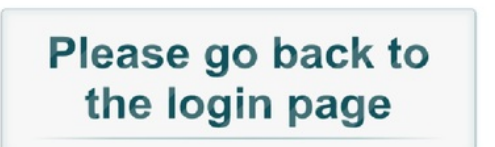
Combined the table of people with the table of applicantlist –identifying the status by the column of authority.

- If people already logged out the system, people cannot access the Welcome page by the link of the page. If people want to access the Welcome page through the link, It will display the wrong notification as following:

Welcome to Human Resource System of Zheng Yuan Electric Company



Welcome to Human Resource System of Zheng Yuan Electric Company



FINAL GRADE

61 / 100

GENERAL COMMENTS

Instructor

WEBSITE

- Range of PHP coding demonstrated - A good range demonstrated with well- managed login, add/edit/delete.

In the register section, the department needs to be a pull-down menu so that the user cannot spell the department wrong. You need some way to move applicants to the people table to make this fully functional (or combine into one table see below). Some PHP validation was present along with J/S and CSS validation - you would need to increase the PHP validation content if the site went live because Javascript can be turned off in the user's browser.

24 /30

- Database structure and design – Very good structure overall - you could possibly combine applicant and people and have a column to distinguish whether they are employed or not. These tables are very similar.

9/10

- Overall Integration of Website - Quite a nice layout overall, appropriate to the site. For the future you could align features like the pull-down menus for a "cleaner" look

8/10

Knowledge and Understanding of Subject – A good understanding demonstrated overall 16/20

REPORT

Research-informed Literature – I'm afraid you have misunderstood the requirements of this report. The assignment brief asks for an assessment of security, scalability, usability and accessibility - NOT a summary of the implementation. You need to talk about security issues such as SQL Injection, Cross site scripting, password encryption etc. Scalability discusses the growth of the website and the impact on resources. Accessibility is concerned with how disabled people in particular can use the website (eg the inclusion of alt tags, careful use of stylesheets etc) You do allude to the usability at times.

2/15

Analysis – Since the research side has been misunderstood, it could not be applied to the website produced in this report.

2/15

Overall = 61%

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