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What was my goal?

I created a simple website for this final project using ASP.NET MVC and SQL database, and I tried to cover all criteria in this simple web. I developed this web for a company called AL Nour that help them to register their employees and save the data of their employees in the database. I made the tables related to each other in order to be more organized. In this documentation, I will show the database, coding part(cookies, validation, url, validation etc..) and the test my web. Note: I export the database as Text file and Script file, they are the same , but I did that, because I have problems with Script file.

How did I develop this website?

Firstly, I created a database Called **Employee2021,** and I started creating tables in SQL.

AS we see, here is the job table for to job positions, because the company may add new position anytime.

Graphical user interface, text

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Here, the table is for groups, because the company may have different group of employees to be organized.

Graphical user interface, text

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Here, I createed this table in order to let the company register their employees. I added the foreign key to this table in order to access the group and job tables.

Graphical user interface, table

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Let’s go to coding part

Secondly, I made connection between SQL and Visual Studio, so I got the diagram of the database that I have in SQL.

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In lesson 11 of our course of web server2, we learned how to create controller related to the tables of the database. Here, I did the same thing starting from job table.

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In order the see the result of the job page, I go to :

A screenshot of a computer

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Here are the controllers such as GroupsController and RegistrationsController:

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Layout:

Graphical user interface, text

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In addition, I created a class called UserProfile:

A screenshot of a computer

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And an empty Controller called LoginController. I put username as nour and the password as 2021c. I validated this username and password. For example, If the username or password are not correct it will show an error. I know that I can take the username and password from database, but I decided to do like that. In lesson 9 , we put the usename same as the password, and I realized that we can do this in this project ,but here I changed a little bit:

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**cookies**

For sure, I used **cookies** in this project. For example, if we entre the the username and the password correctly, and then we check box of remamber me ,the username and the password will be saved for 30 days when we close the browser. If we click on logout , the cookies, will be removed, so it will not be saved for 30 days. I put 30 days in order make the user feel more comfortable. Here is the code of that :

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Url

I put this code in some controllers in order to redirect the user to Login page. I can play with this to change the direction of url.

Text

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Text

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Validation

I validated all the fields, by creating classes. I had an error, but I solved by searching on the Internet about MetadataType, so I used it here. Here, you can see all the code, and you will the test of the web at the end pages of this documentation.

Text

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Text

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Here, the emails are clickable in order to make it easy for the user to send emails using the website.

Text

Description automatically generated

Let’s do the test of my website:

When you run my web, it will go here first

Graphical user interface, text, application, website

Description automatically generated

If the user tries to go to Jobs page, it will take the user to Login:

A screenshot of a computer

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If the user put a different username, it will show error, and it will not allow the user to go to Jobs page:

A screenshot of a computer

Description automatically generated with medium confidence

If the user entre the correct username and password, and check box of remember me , the username and password will be saved for 30 days. Then, the user clicked on Login, it take the user Job pages. Note: the username is nour and the password is 2021c.

A screenshot of a computer

Description automatically generated with medium confidence

Here is the Jobs page:

You can add, update and delete job position with the salary, and these actions will be implemented in the database as well

Graphical user interface, website

Description automatically generated

If the user clicks on new position, it will take the user to this page:

Graphical user interface, website

Description automatically generated

If the user clicks on create without entering information, it will show errors.

Graphical user interface, text, application, website

Description automatically generated

If the user writes correct information, Graphical user interface, application, website

Description automatically generated

A screenshot of a computer

Description automatically generated

If the company decided to increase the salary of the developer 😊, they can go the edit in order to update that:

Graphical user interface, application, website

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A screenshot of a computer

Description automatically generated

If the user wants to delete, the user can delete by clicking on delete button

Graphical user interface, application

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Graphical user interface, application, website

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We have the same features Groups page, so the user can add delete, and update group with the year.

Graphical user interface, application, website

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Here is also the validation

Graphical user interface, website

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Now, if the user goes to Registrations page, the user will see the information of the employee with the group and the job position.

Graphical user interface, text, application

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If the user wants to add a new employee, the user must click on New employee, and it will show:

Graphical user interface

Description automatically generated

Validation:

Graphical user interface, website

Description automatically generated

Graphical user interface, application, website

Description automatically generated

Here, the user can select the job postion and grop from the privous tables :

Graphical user interface, website

Description automatically generated

Graphical user interface, website

Description automatically generated

Here, we added the emplyee sussessfully.Also, the user can add, update and delete.

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To Logout, click on logout ,the username and the password will not be saved.

Graphical user interface, text, application

Description automatically generated

Note: I export the database as Text file and Script file, they are the same , but I did that, because I have problems with Script file.

Thank you very much!