

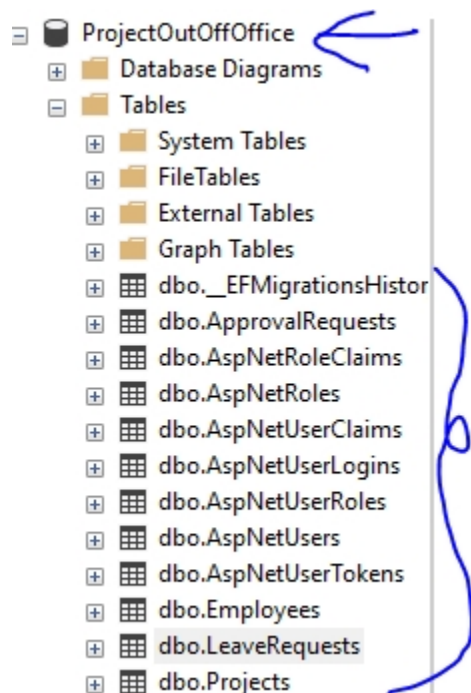
ASP NET MVC "OutOfOffice" Web Application:

Usage: C#, .NET 7.0, MVC, Clean Architecture with CQRS + MediatR pattern, Entity Framework, FluentValidation, ASP.NET Identity, MSSQL.

```
"OutOfOfficeContext": "Server=DESKTOP-09DCRPN;Database=ProjectOutOfOffice;Trusted_Connection=True;TrustServerCertificate=True;"
```

The first launch of the application. You need to download the project in question from github. In the appsettings.json file -> set the correct data with the connection to the MSSQL database (nazda server and database). If everything ok then run the applications. A new database will be created.

If the application does not want to start, then you need to use the command in the Package Manage Console: update database -> this manually creates the database in question. If it doesn't work. Then please remove the file from the Migrations project, then commands: add-migration Init and then update database. Then run the applications.

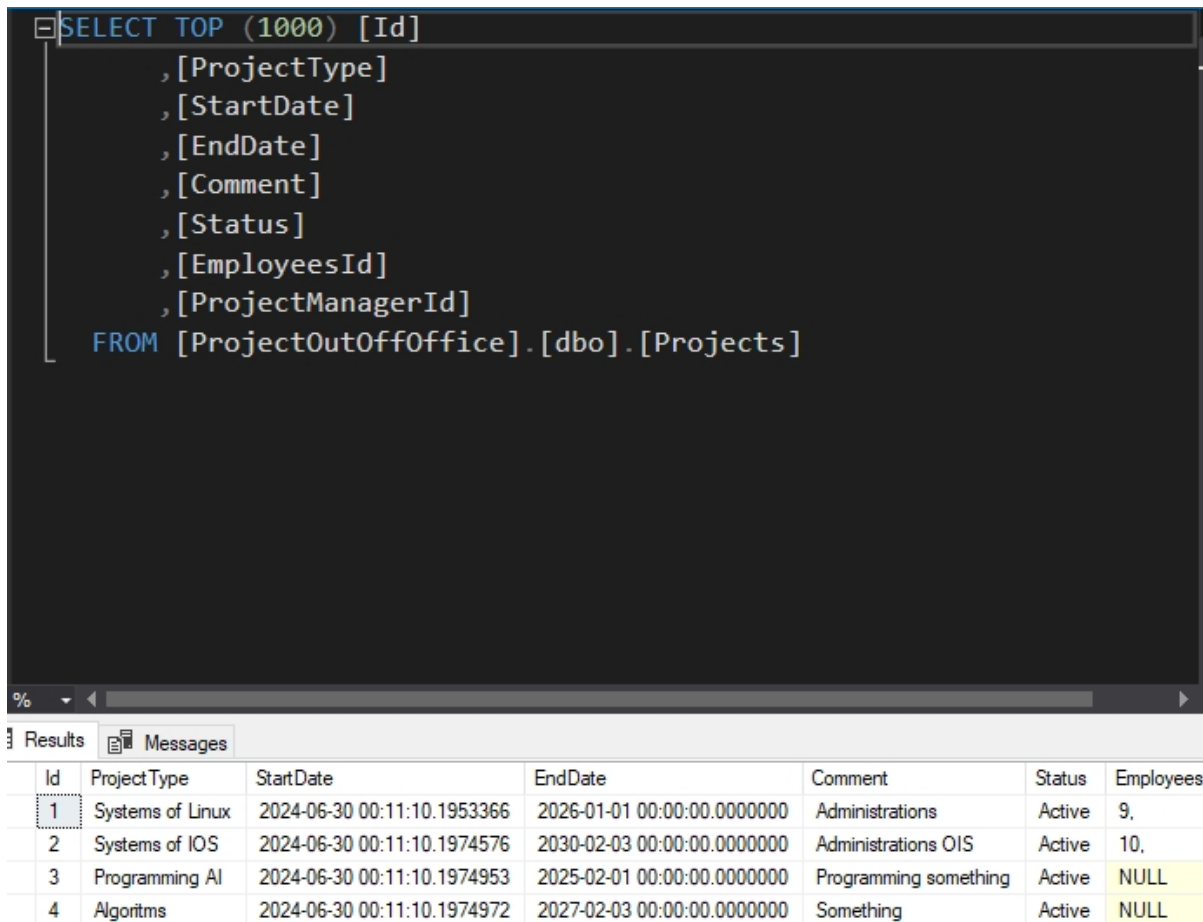


```

SELECT TOP (1000) [Id]
, [FullName]
, [Subdivision]
, [Position]
, [Status]
, [OutOfOfficeBalance]
, [Photo]
, [IdHrManager]
, [CreatedById]
FROM [ProjectOutOfOffice].[dbo].[Employees]

```

Id	FullName	Subdivision	Position	Status	OutOfOfficeBalance	Photo
1	Admin	NULL	ADMIN	Active	26	D:\NySheets\ProgramsInCSH
2	Patrick Prusko	NULL	HR MANAGER	Active	22	D:\NySheets\ProgramsInCSH
3	clapper klist	NULL	HR MANAGER	Active	26	D:\NySheets\ProgramsInCSH
4	Anna cladra	NULL	PROJECT MANAGER	Active	23	"/Images/fifth.JPG
5	clapper Next	NULL	PROJECT MANAGER	Active	23	"/Images/photo.PNG
6	cleats Nextewe	NULL	EMPLOYEE	Active	23	"/Images/fifth.JPG
7	Blazej Pineapple	NULL	EMPLOYEE	Active	23	"/Images/fifth.JPG
8	Andrew An	NULL	EMPLOYEE	Active	23	"/Images/fifth.JPG
9	Shimon kluch	1	EMPLOYEE	Active	23	"/Images/fifth.JPG
10	Alicia Ajla	2	EMPLOYEE	Active	23	"/Images/fifth.JPG
11	Patrycja Blaszczyk	NULL	EMPLOYEE	Active	28	"/Images/fifth.JPG
12	cleats Nextewe	NULL	EMPLOYEE	Active	23	"/Images/fifth.JPG
13	clarianna Oleksiej	NULL	EMPLOYEE	Active	13	"/Images/fifth.JPG
14	Dagmara Alon	NULL	EMPLOYEE	Active	14	"/Images/fifth.JPG
15	Sandra Rak	NULL	EMPLOYEE	Active	0	"/Images/fifth.JPG



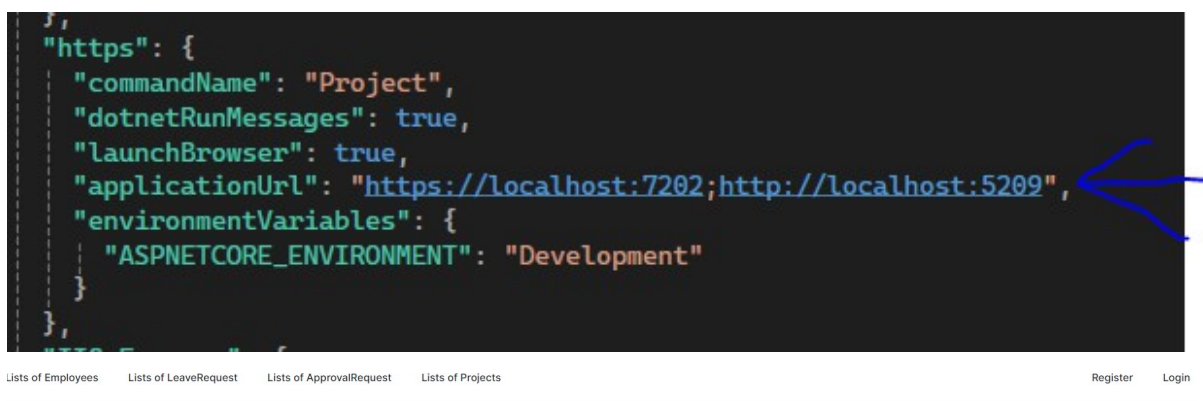
The screenshot shows a SQL query window with the following query:

```
SELECT TOP (1000) [Id]
, [ProjectType]
, [StartDate]
, [EndDate]
, [Comment]
, [Status]
, [EmployeesId]
, [ProjectManagerId]
FROM [ProjectOutOffOffice].[dbo].[Projects]
```

Below the query window, the 'Results' tab is active, displaying a table with 8 columns: Id, ProjectType, StartDate, EndDate, Comment, Status, and Employees. The table contains 4 rows of data.

Id	ProjectType	StartDate	EndDate	Comment	Status	Employees
1	Systems of Linux	2024-06-30 00:11:10.1953366	2026-01-01 00:00:00.0000000	Administrations	Active	9,
2	Systems of IOS	2024-06-30 00:11:10.1974576	2030-02-03 00:00:00.0000000	Administrations OIS	Active	10,
3	Programming AI	2024-06-30 00:11:10.1974953	2025-02-01 00:00:00.0000000	Programming something	Active	NULL
4	Algoritms	2024-06-30 00:11:10.1974972	2027-02-03 00:00:00.0000000	Something	Active	NULL

New tables are created: Employees, Projects, ApprovalRequests, LeaveRequests .
During the first charm, sample data is generated, which is in the directory
Seeders/OutOfOfficeSeeder.cs .



The top part of the screenshot shows a code editor with a configuration object for a project. A blue arrow points to the 'applicationUrl' property, which is set to 'https://localhost:7202;http://localhost:5209'.

```
{
  "https": {
    "commandName": "Project",
    "dotnetRunMessages": true,
    "launchBrowser": true,
    "applicationUrl": "https://localhost:7202;http://localhost:5209",
    "environmentVariables": {
      "ASPNETCORE_ENVIRONMENT": "Development"
    }
  }
}
```

Below the code editor, there is a navigation bar with links: Lists of Employees, Lists of LeaveRequest, Lists of ApprovalRequest, Lists of Projects, Register, and Login.

Welcome

Learn about [building Web apps with ASP.NET Core](#).

The start page will appear. It should open at the link above. Application Operation:

Register

Create a new account.

Email

patrykprusko@gmail.com

Password

.....

Confirm Password

.....

Register

If you go to the List of Employees tab or any other tab, a login window will appear. There are already created employees with roles: EMPLOYEE, HR_MANAGER, PROJECT_MANAGER, ADMIN. For now, in order to add an employee to the system, we register the already added employee in the table: Patryk Prusko, HR_MANAGER.

Enter registration:

Email: must always match the created first name + last name + gmail.com ie:

From an employee named: "Patrick Prusko" -> "patrykprusko@gmail.com" , password: Password1234! .

Hello patrykprusko@gmail.com!

Logout

List of Employees

Create New

Find by name:

Search

Patryk Prusko

HR_MANAGER

Active

22

Details

Edit

Delete

Maciej Nextewe

EMPLOYEE

Active

23

Details

Edit

Delete

Blazej Ananas

EMPLOYEE

Active

23

Details

Edit

Delete

Andrzej An

EMPLOYEE

Active

23

Details

Edit

Delete

Szymon Much

EMPLOYEE

Active

23

Details

Edit

Delete

Alicja Ajla

EMPLOYEE

Active

23

Details

Edit

Delete

Patrycja Blaszcak

EMPLOYEE

Active

28

Details

Edit

Delete

After that we can see that we have logged in. When we go to List of Employees it shows us 6 employees that were added by this logged-in user with HR_MANAGER role.

						IdHrManager	
						1	
						2	
						3	
						4	
						5	
						2	
						2	
						2	
						2	
						2	
						2	
2	Patryk Prusko	NULL	HR_MANAGER				
6	Maciej Nextewe	NULL	EMPLOYEE	Active	23		
7	Blazej Ananas	NULL	EMPLOYEE	Active	23		
8	Andrzej An	NULL	EMPLOYEE	Active	23		
9	Szymon Much	1	EMPLOYEE	Active	23		
10	Alicja Ajla	2	EMPLOYEE	Active	23		
11	Patrycja Blaszcak	NULL	EMPLOYEE	Active	28		

After the IdHrManager -> 2 column, this is the id number of the given logged-in HR_MANAGER.

Now the capabilities of a given HR_MANAGER:

Under the List of Employees tab:

Create Employee

FullName

Adrian Nowy

Status

Active

Position

EMPLOYEE

OutOfOfficeBalance

26

Create

Adrian Nowy

EMPLOYEE

Active

26


Details

Edit

Delete

- Create a new employee: in Status select Active or Inactive, Position is the role : EMPLOYEE, HR_MANAGER, PROJECT_MANAGER, OutOfOfficeBalance -> number of vacation days. After adding a new employee, there is a message (Toast) that a new employee has been added.

Adrian Nowy Details

Id	16
FullName	Adrian Nowy
Position	EMPLOYEE
Status	Active
OutOfOfficeBalance	26
Photo	

[Edit](#)[Back to List](#)

- Ability to preview details.

Edit Adrian Nowy

EditEmployeeCommand

Id

16

FullName

Adrian Nowy

Position

EMPLOYEE

Status

Active



OutOfOfficeBalance

26

Photo

Save

Back to List

- Ability to edit a given employee: change 3 values: Status: Active or InActive, OutOfOfficeBalance: 1 to 59, Photo: indifferent.
- Possibility of removal

List of Employees

Create New

Find by name: Alicja

Search

Alicja Ajla
EMPLOYEE
Active
23

Details

Edit

Delete

- The ability to search by name, to return it you need to delete the name you are looking for and press Search button.
- IMPORTANT: if you create a new EMPLOYEE now, then in order to log in as him, then you need to register with the name: e.g. Anna Pala -> annapala@gmail.com : email, password . Then log in with that email and password.

In Lists Of Projects:

List Of Projects

Find by id: Search

ID	PROJECT TYPE	START DATE	END DATE	COMMENT	STATUS	
2	Systems of IOS	6/30/2024 12:11:10 AM	2/3/2030 12:00:00 AM	Administrations OIS	Active	Details
1	Systems of Linux	6/30/2024 12:11:10 AM	1/1/2026 12:00:00 AM	Administrations	Active	Details

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1


He can only view the given projects , which are related to his employees, whom he has created in the system (these Employees are added to these projects).

Systems of IOS Details

Id	2
ProjectType	Systems of IOS
StartDate	6/30/2024 12:11:10 AM
EndDate	2/3/2030 12:00:00 AM
Comment	Administrations OIS
Status	Active
ProjectManagerId	4
EmployeesId	10,

[Back to List](#)

Alicja Ajla Details

Id	10
FullName	Alicja Ajla
Position	EMPLOYEE
Status	Active
OutOfOfficeBalance	23
Subdivision	2
Photo	

In the details of a given project, you can check the connection between the Project and employee -> EmployeesId -> 10 -> this is the Id number of a given employee, and in the employee details there is a field Subvision -> 2 this is the Id number of a given Project. One Empolyee can be assigned to one project.

List Of Projects

Find by id:

Search

ID	PROJECT TYPE	START DATE	END DATE	COMMENT	STATUS
----	--------------	------------	----------	---------	--------

You can search for the project Id number, you can sort the column data in descending and ascending order on pressing a column.

Lists Of LeaveRequests:

List Of Leave Requests

Find by id:

Search

ID	ABSENCE REASON	STARTDATE	ENDDATE	COMMENT	STATUS	EMPLOYEE ID	
1	I'm very seek	7/1/2024 1:00:00 AM	7/7/2024 1:00:00 AM	something	SUBMITTED	9	<div>Details</div>
2	second soething	7/5/2024 1:01:00 AM	7/7/2024 1:01:00 AM	test	NEW	9	<div>Details</div>
3	third	7/1/2024 1:03:00 AM	7/5/2024 1:02:00 AM	third	NEW	9	<div>Details</div>

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HR_MANAGER can only browse the details of leave requests that belong to his employees. He can search by LeaveRequest id number or sort by a particular column and see the details.

List of ApprovalRequest:

List Of Approval Requests

Find by id:

Search

ID	COMMENT	STATUS	APPROVER EMPLOYEEID	LEAVE REQUESTID	
1	something	NEW	9	1	<div>ChangeStatus</div>

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HR_MANAGER can search by ApprovalRequest id number and sort. He can approve or cancel a given leave request of his employee -> with the ChangeStatus button.

////////////////////////////////////

WHEN PROJECT_MANAGER IS LOGGED IN:

3	Maciej Mist	NULL	HR_MANAGER	Active	26	D:\MySheets\Programs
4	Anna Madra	NULL	PROJECT_MANAGER	Active	23	~/Images/fifth.JPG
5	Maciej Mist	NULL	PROJECT_MANAGER	Active	23	~/Images/fifth.JPG

We log in as annamadra@gmail.com, if no account, then we need to register.

In List of Employees:

List of Employees

Find by name:

Admin

ADMIN

Active

26

[Details](#) [AddToProject](#)

Patryk Prusko

HR_MANAGER

Active

22

[Details](#) [AddToProject](#)

Maciej Mist

HR_MANAGER

Active

26

[Details](#) [AddToProject](#)

Anna Madra

PROJECT_MANAGER

Active

23

[Details](#) [AddToProject](#)

Maciej Next

PROJECT_MANAGER

Active

23

[Details](#) [AddToProject](#)

Maciej Nextewe

EMPLOYEE

Active

23

[Details](#) [AddToProject](#)

Andrzej An

EMPLOYEE

Active

23

[Details](#) [AddToProject](#)

Marianna Oleksiej

EMPLOYEE

Active

13

[Details](#) [AddToProject](#)

PROJECT_MANAGER can search by the name of an EMPLOYEE , see the details and add a new EMPLOYEE to a project with the "AddToProject" button. He has access to all EMPLOYEES that are not assigned to any project.

In List of Leave Requests:

List Of Leave Requests

Find by id:

ID	ABSENCE REASON	STARTDATE	ENDDATE	COMMENT	STATUS	EMPLOYEE ID	
1	I'm very seek	7/1/2024 1:00:00 AM	7/7/2024 1:00:00 AM	something	SUBMITTED	9	Details
2	second soething	7/5/2024 1:01:00 AM	7/7/2024 1:01:00 AM	test	NEW	9	Details
3	third	7/1/2024 1:03:00 AM	7/5/2024 1:02:00 AM	third	NEW	9	Details

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1

- For browsing only, there are data records available regarding their EMPLOYEES, Who are assigned to the projects of a given PROJECT_MANAGER.

In List of ApprovalRequests:

List Of Approval Requests

Find by id:

ID	COMMENT	STATUS	APPROVER EMPLOYEEID	LEAVE REQUESTID	
1	something	NEW	9	1	<input type="button" value="ChangeStatus"/>

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1

- Ability to review and approve a given leave or cancel. There are data of applications , employees who belong to the project of a given PROJECT_MANAGER.

In List Of Projects:

List Of Projects

Find by id:

ID	PROJECT TYPE	START DATE	END DATE	COMMENT	STATUS	
2	Systems of IOS	6/30/2024 12:11:10 AM	2/3/2030 12:00:00 AM	Administrations OIS	Active	<input type="button" value="Details"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>
1	Systems of Linux	6/30/2024 12:11:10 AM	1/1/2026 12:00:00 AM	Administrations	Active	<input type="button" value="Details"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>
8	test	7/4/2024 12:43:00 PM	7/4/2024 12:43:00 PM	test	Active	<input type="button" value="Details"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>

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1

PROJECT_MANAGER can create new, update, delete its projects. It can search by a given id number, sort by a given column.

////////////////////////////////////

Logged in as EMPLOYE as szymonmuch@gmail.com : In List Of

Employees -> none .

In List Of Projects :

List Of Projects

Find by id:

ID	PROJECT TYPE	START DATE	END DATE	COMMENT	STATUS	
1	Systems of Linux	6/30/2024 12:11:10 AM	1/1/2026 12:00:00 AM	Administrations	Active	<input type="button" value="Details"/>

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1

Creating a new LeaveRequest by EMPLOYEE , gives you the opportunity to approve the of a given leave request with the button -> 'Submit'.

2	second soething	7/1/2024 1:01:00 AM	7/7/2024 1:01:00 AM	test	SUBMITTED	Cancel	9
---	-----------------	---------------------	---------------------	------	-----------	--------	---

If I suspend then change the button to 'Cancel' and the status field changes from 'NEW' to 'SUBMITTED'.

ID	COMMENT	STATUS	APPROVER EMPLOYEEID	LEAVE REQUESTID
2	test	NEW	9	2

A new ApprovalRequest is created in the list of AprovalRequests with a status of 'NEW', with a comment field the same as it was in the comment record in the LeaveRequests list.

Now the EMPLOYEE concerned can either cancel the leave request in question , or wait for the approval by HR_MANAGER or PROJECT_MANAGER.

2	second soething	7/1/2024 1:01:00 AM	7/7/2024 1:01:00 AM	test	SUBMITTED	Cancel	9
---	-----------------	---------------------	---------------------	------	-----------	--------	---

CANCELLED					Submit	9
-----------	--	--	--	--	--------	---

If he presses the 'Cancel' button -> this cancels this request. The status will change to 'CANCELLED' and the button will change to 'Submit'. And the record in the ApprovalRequests list is deleted.

If the EMPLOYEE is waiting for a decision from the HR_MANAGER or PROJECT_MANAGER then:

ID	COMMENT	STATUS	APPROVER EMPLOYEEID	LEAVE REQUESTID	
3	test	NEW	9	2	ChangeStatus

Logged in HR_MANAGER has options on List Of ApprovalRequests given button. 'ChangeStatus' -> this opens the given window:

ChangeStatus

Id
3

Status
APPROVED_REQUEST

Comment
test

ApproverEmployeeId
9

LeaveRequestId
2

Save

In which there is a choice of changing the "Comment" field and selecting the status -> "APPROVED_REQUEST" -> approval of the leave request, or 'REJECTED_REQUEST' -> cancellation of the request.

If "APPROVED_REQUEST" ->

9	Szymon Much	1	EMPLOYEE	Active	29	Before
9	Szymon Much	1	EMPLOYEE	Active	26	After

The '**OutOfOfficeBalance**' field of a given EMPLOYEE , i.e. vacation days, is changed.

3	test	REJECTED_REQUEST	9	2
---	------	------------------	---	---

Changes 'Status' to 'REJECTED_REQUEST' and given EMPLOYEE cannot delete the vacation request in question.

HR_MANAGER when cancelling a given leave request 'REJECTED_REQUEST':

The field '**OutOfOfficeBalance**' of the given EMPLOYEE , i.e. vacation days to 26 days, is changed. Now the given EMPLOYEE can delete the given application. If the given HR_MANAGER changes the

////////////////////////////////////

Logged in as PROJECT_MANAGER can create a new project. If he wants to add any EMPLOYEE to it, he needs to go to List of Employees:

Find by name:

Search

Admin

ADMIN

Active

26

Details

AddToProject

Patryk Prusko

HR_MANAGER

Active

22

Details

AddToProject

Maciej Mist

HR_MANAGER

Active

26

Details

AddToProject

Anna Madra

PROJECT_MANAGER

Active

23

Details

AddToProject

Maciej Next

PROJECT_MANAGER

Active

23

Details

AddToProject

Maciej Nextewe

EMPLOYEE

Active

23

Details

AddToProject

Andrzej An

EMPLOYEE

Active

23

Details

AddToProject

Marianna Oleksiej

EMPLOYEE

Active

13


Details

AddToProject

AddToProject

Create New							
ID	PROJECTTYPE	STARTDATE	ENDDATE	COMMENT	STATUS	PROJECTMANAGERID	EMPLOYEEID
1	Systems of Linux	6/30/2024 12:11:10 AM	1/1/2026 12:00:00 AM	Administrations	Active	4	9,7, AddEmployeeToProject
2	Systems of IOS	6/30/2024 12:11:10 AM	2/3/2030 12:00:00 AM	Administrations OIS	Active	4	10, AddEmployeeToProject
8	test	7/4/2024 12:43:00 PM	7/4/2024 12:43:00 PM	test	Active	4	AddEmployeeToProject


A new view with the List of Projects of the given PROJECT_MANAGER opens. We add to the Project with id number 2 this new EMPLOYEE, which the system will add to the field 'EMPLOYEESID' -> EMPLOYEE data id numbers.



13	Marianna Oleksiej		EMPLOYEE
14	Danuta Aja	2	EMPLOYEE

In the database in the field 'Subdivision' is empty, after adding this will be with the ID number of a given project -> No. 2 id.

From the list of Employees the given 'Marianna Oleksiej' disappears from the list , because she is already in some project already added. When deleting a given project, let's say the above is that with id number 2, which has two employees assigned to the project.



10	Alicja Aja	2	EMPLOYEE
13	Marianna Oleksiej	2	EMPLOYEE

This is before the removal of

After deleting a given project with Id 2 , it is these two twos that are removed from the 'Subdivision' field.

When we remove a given EMPLOYEE from the List Of Employees , then in a given project from the field.

'EMPLOYEESID' removes the given Id number.

//////////////////// Logged in

as ADMIN:

It's admin@admin@gmail.com -> you need to register. It has most of the permissions, but you have to be very careful to remove something and especially from the role: HR_MANAGER or PROJECT_MANAGER, before that it is best to remove all their employees, because you have to refine it later on

Database connections:

Table Employees -> Projects -> 1 to many

Table Employees -> LeaveRequests -> 1 -> to many

ApprovalRequests -> LeaveRequests -> 1 to 1

If you create a new employee, the name should be, for example: John Smith . Then Register as jankowski@gmail.com, and log in.

Validations are also pored over in the directories

OutOfOffice.Application/Employee/Commands/CreateEmployee/CreateEmployeeCommand and Validator.cs , the rest are in the directories Commands and files with a suffix in the name Validator.cs .