UVS .NET Task

This submission includes a .NET 6.0 console application that implements the required get-employee and set-employee commands using Entity Framework Core 6. The app interacts with a PostgreSQL database to store and retrieve employee data.

Issue Faced

1. During this task I faced compatibility issues between .NET 6 and some package versions. Mainly with the Npgsql package used for connecting to the PostgreSQL database.

Newer versions of Npgsql that fix vulnerabilities are not fully compatible with .NET 6. The version compatible with .NET 6 (version 6.x) causes high severity vulnerability warnings in security scans.

And these warnings do not affect the program's functionality or behavior but should be noted for future updates and improvements.

Due to this, I used the latest compatible version of Npgsql for .NET 6, accepting the warnings while ensuring the app works correctly.

2. Another small problem that I had in my code that table and column names where given in lowercase. I had a problem because PostgreSQL treats table and column names as lowercase by default. But in my code by habbit, Entity Framework Core was using names with capital letters (like Employees and EmployeeId). To fix it, I told Entity Framework Core to use the exact lowercase table and column names by specifying them in the code.

To run the program:

In .\UVS-NET-TASK\UVS-NET-TASK\UvsTask>

Run:

powershell -ExecutionPolicy Bypass -File .\setUpDatabase.ps1

powershell -ExecutionPolicy Bypass -File .\verifySubmission.ps1

Testing

I have verified the functionality using the provided ./verifySubmission.ps1 script, and it confirms that all required operations are implemented correctly.