TechExtensor Interview Task

Dear candidate,

We would like to inform you that this development task is part of our technical interview process for the role of C# .NET core developer. The task is designed to take between 3-8 hours to This exercise will help us assess your coding abilities, speed, and give us an idea of what it would be like to work with you as a team member.

Points will be given for the use of best practices, creativity, and speed. We thank you for participating in this process and wish you happy coding! We are hiring for many developer positions so the best candidates will be invited to a call to complete the interview process.

Best regards,

Patrick

Task: Employee Management System

Build a web application that allows an organization to manage its employees. The application should have the following features:

1. Employee List: Display a list of all employees with details such as name, email, date of birth, and department.
2. Add Employee: Allow the user to add a new employee to the list.
3. Edit Employee: Allow the user to edit an existing employee's details.
4. Delete Employee: Allow the user to delete an employee from the list.
5. Search Employees: Allow the user to search for employees by name, email, or department.
6. REST API: The application should also have a REST API that allows clients to perform CRUD (Create, Read, Update, Delete) operations on the employee data.
7. LINQ: Use LINQ to retrieve data from the database and display it in the Employee List.

Technology Stack:

* ASP.NET Core MVC with Razor Pages or Blazor or REACT or WPF/Maui
* C# as the programming language
* Entity Framework Core for data access
* SQL Server as the database

Notes:

* The focus should be on demonstrating a strong understanding of C#, REST, LINQ, and either ASP.NET MVC Razor or Blazor or REACT or WPF/Maui.
* The user interface can be simple and straightforward, the emphasis is on functionality.
* You can use an in-memory database for simplicity.
* Please add unit tests.
* Bonus points given if the application is deployed on Azure and uses Azure services.
* Please share the code in a publicly accessible GitHub repo and a link to the running app
* Please provide loom recording for explaining working test and bit about code explaining.