SSr

N5 company requests a Web API for registering user permissions, to carry out this task it is necessary to comply with the following steps:

1. Create a **Permissions** table with the following fields:

Show All — Filter Sort

Permisos

Name	Data Type	Extra	Field Description
Id	Integer	Auto-increment	Unique ID
NombreEmpleado	Text	Not null	Employee Forename
ApellidoEmpleado	Text	Not null	Employee Surname
TipoPermiso	Integer	Not null	Permission Type
FechaPermiso	Date	Not null	Permission granted on Date

2. Create a **PermissionTypes** table with the following fields:

Show All — Filter Sort

TipoPermisos

Name	Data Type	Extra	Field Description
Id	Integer	Auto-increment	Unique ID
Descripcion	Text	Not null	Permission description

3. Create relationship between **Permission** and **PermissionType.**
4. Create a Web API using ASP .NET Core and persist data on SQL Server.
5. Make use of **EntityFramework**.
6. The Web API must have 3 services “Request Permission”, “Modify Permission” and “Get Permissions”. Every service should persist a permission registry in an elasticsearch index, the register inserted in elasticsearch must contains the same structure of database table “permission”.
7. Making use of repository pattern and Unit of Work and CQRS pattern(Desired). Bear in mind that is required to stick to a proper service architecture so that creating different layers and dependency injection is a must-have.
8. Create Unit Testing to call the three of the services.
9. Build an app in ReactJS and use Axios to connect to the backend
10. Create the forms to consume the Web API.
11. Give the styles to the three forms, so that it looks as attractive and simple as possible
12. Use good practices as much as possible on the backend and frontend.
13. Upload exercise to some repository (github, gitlab,etc).