**REST API**

**Project Description:**

**You have a Rest API for the administration of employee records consisting of:**

* Simple Login (preferable JWT authentication) (no registration page is needed, administrator will create new users)
* Two User Roles: Employee, Administrator
* User Profile
* Projects and Tasks
* Employee can update his profile data and profile picture, create tasks that belong to the projects he is part of (also can assign these tasks to other employees that are part of the project), mark his tasks as completed etc. Employee can view all tasks that are related to the projects he is part of (in read-only mode). Employee can not modify tasks which are not assigned to him.
* Administrator can create/update/remove users, projects and tasks. Administrator can add employees to projects (also remove employees from them), create new tasks and assign them to other employees, mark tasks as completed or remove them. Administrator cannot remove projects that have even open tasks.

**Technologies to be used:**

* .NET SDK 5.0 (Lates 5.0.102)
* Entity Framework (LINQ for querying data) (EFCore & EFCore Tools)
* Dapper (for query writing) optional
* Microsoft SQL Server 2017 or 2019
* Microsoft SQL Server Management Studio 18 (Database Management)
* Microsoft Visual Studio 2019

Models of the project can be separated into a diferent project of type Class Library and then be added as reference to the WEB API solution. Model’s properties must be enriched with Annotations for validation and documentation purposes.

Documentation of methods must be separated into respective Controllers not all in one yaml file. (Hint using GroupName annotation)

Web Api project structure must consist of Controllers, Services and ViewModels. Each of the Service classes must have their own Interface which will be used with Dependency Injection in the Controller classes.

Implementation of event handling using Abp.Events.Bus library (EventBus class).

**Note**: Feel free to ask any question concerning the project.

Every day that you work on the project you should send an email to the responsible person and info@kreatx.com with a brief description on your progress.

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