Vacation Api Assignment

Description :

This assignment will help you revisit and apply all topics studied regarding Asp.net Core APIs. by creating a new model and Api Called Vacations where each employee can add new vacations with different types and different durations.

Model : Create a new model called Vacation, and has the following properties

Name	Type	Description
Id	long	The primary key for the table.
EmployeeId	long	A foreign key referencing the **Id** from **Employees** table, don't forget to add the Navigation Property.
CreationDate	DateTime	The Creation Date of the vacation, **by default** it has the date and time of right now.
StartDate	DateTime	The start date of the vacation.
EndDate	DateTime	The end date of the vacation.
TypeId	long	A foreign key referencing the Id from Lookups table, don't forget to add the Navigation Property.
Notes	String (nullable)	Any provided notes regarding the reason for why the employee requested this vacation.

Lookup Table : Seed the following values directly into the database using provided methods in Entity Framework.

Major Code	Minor Code	Name
2	0	Vacation Types
2	1	Annual Vacation
2	2	Sick Vacation
2	3	Unpaid Vacation

Controller : Create a Vacations Controller containing those five endpoint methods, **All api endpoints are secured using authentication**.

1) **GetAll** (Get)
    a) **Description** : Returns all requested vacations from the database, with the ability to filter using the following parameters
    b) **Parameters** :
        i) VacationTypeId (long?)
        ii) EmployeeId (long?)
        iii) All under VacationsFilterDto object

    c) **Response** : a list of VacationDto objects containing the following properties
        i) Id (long)
        ii) EmployeeId (long)
        iii) EmployeeName (string)
        iv) CreationDate (DateTime)
        v) StartDate (DateTime)
        vi) EndDate (DateTime)
        vii) TypeId (long)
        viii) TypeName (string)
        ix) Notes (String)

2) **GetById** (Get)
    a) **Description** : Returns one vacation Based on the provided Id

    b) **Parameters** :
        i) Id (long)

    c) **Response** : a VacationDto object containing the following properties
        i) Id (long)
        ii) EmployeeId (long)
        iii) EmployeeName (string)
        iv) CreationDate (DateTime)
        v) StartDate (DateTime)
        vi) EndDate (DateTime)
        vii) TypeId (long)
        viii) TypeName (string)
        ix) Notes (String)

3) **Add** (Post)
   a) **Description** : Adds new Vacation

   b) **Parameters** :
      i) Id (long)
      ii) StartDate (DateTime)
      iii) EndDate (DateTime)
      iv) Notes (String)
      v) EmployeeId (long)
      vi) TypeId (long)
      vii) All under SaveVacationDto object

   c) **Response** : Ok 200

4) **Update** (Put)
   a) **Description** : Updates a Vacation

   b) **Parameters** :
      i) Id long
      ii) StartDate (DateTime)
      iii) EndDate (DateTime)
      iv) Notes (String)
      v) EmployeeId (long)
      vi) TypeId (long)
      vii) All under SaveVacationDto object

   c) **Response** : Ok 200

5) **Delete** (Delete)
   a) **Description** : Deletes a Vacation by id

   b) **Parameters** :
      i) Id (long)

   c) **Response** : Ok 200