



.NET Task

Create Employee REST API, using [ASP.NET](#) Core:

1. API user should be able to accomplish following things:
 - a. Getting particular employee by ID;
 - b. Search for employees by name and birthdate interval;
 - c. Getting all employees;
 - d. Getting all employees by boss id;
 - e. Getting employee count and average salary for particular Role;
 - f. Adding new employee;
 - g. Updating employee;
 - h. Updating just employee salary;
 - i. Deleting employee.
2. Employee must have following properties:
 - a. Unique id (auto generated when employee is created);
 - b. FirstName;
 - c. LastName;
 - d. Birthdate;
 - e. EmploymentDate;
 - f. Boss (who is also an employee);
 - g. Home address;
 - h. Current salary;
 - i. Role.
3. Validation rules:
 - a. All properties, except for Boss are required;
 - b. Only CEO role has no boss;
 - c. There can be only 1 employee with CEO role;
 - d. FirstName and LastName cannot be longer than 50 characters;
 - e. FirstName != LastName;
 - f. Employee must be at least 18 years old and not older than 70 years;
 - g. EmploymentDate cannot be earlier than 2000-01-01;
 - h. EmploymentDate cannot be a future date;
 - i. Current salary must be non-negative.
4. Data must be stored somewhere (database, file, etc.).
5. Exceptions must be logged.
6. Code should be covered by unit tests (at least most critical parts).