Problem Statement :1

In this case study, we will create an application that requires us to implement four functionalities. They are as follows:

Create todolist table with the following fields

Id

Name

description

Iscomplete

Create a web API to do CRUD operation perform all crud operation using postman, swagger or any online tool.

Create a New MVC Application as client App to consume the web API and perform all read and create operation.

Apply necessary validation, Error handling techniques with good naming convention and coding standards.

**Note : use Entity Framework (any approach)**

Create separate project for todoservice and todoclient

Problem Statement :2

In this case study, we will create an application that requires us to implement four functionalities. They are as follows:

1. Display the list of existing notes from the database.
2. Add a new Note.
3. Delete Note
4. Update/ Modify Note.

Expected solution

You need to create a Web API to perform CRUD operations on Note. Note Model should have below properties -

* NoteId
* NoteTitle
* NoteContent
* NoteStatus
* NoteDate

Create endpoints in your API to perform CRUD operations. Define API endpoints as follows:

GET http://localhost:<port>/api/note - To get all notes

GET http://localhost:<port>/api/note/<noteid> - To get note based upon id

POST http://localhost:<port>/api/note - To add new notes

PUT http://localhost:<port>/api/note/<noteid> - To update note based upon noteid

DELETE http://localhost:<port>/api/note/<noteid> - To delete note based upon noteid

Create a web API to do CRUD operation perform all crud operation using postman, swagger or any online tool.

Create a New MVC Application as client App to consume the web API and perform all read and create operation.

Apply necessary validation, Error handling techniques with good naming convention and coding standards.

**Note : use Entity Framework (any approach)**

Create separate project for webAPI and MVC App

Problem Statement :3

In this case study, we will work with User data .They are as follows:

1. UserId should be a primary key.
2. Duplicate Username should not be allowed while adding new user.
3. Duplicate Email should not be allowed while adding new user.
4. Default value should be defined for Registration Date which should be entered when it is left blank at the time of adding new user.

Expected solution

You need to create a Web API to perform CRUD operations on User. Model class to be defined for User entity with below properties:

* UserId
* Username
* Email
* City
* Phone
* RegistrationDate

The CRUD operations for User to be defined in UserRepository.

Following are the broad tasks:

1. CRUD (User) EF any approach.
2. Create a web API to do CRUD operation perform all crud operation using postman, swagger or any online tool.
3. Create a New MVC Application as client App to consume the web API and perform all read and create operation.
4. Apply necessary validation, Error handling techniques with good naming convention and coding standards.
5. **Note : use Entity Framework (any approach)**
6. Create separate project for webapi and MVC app