A .NET VisualStudio Solution that demonstrates a typical REST API.

Create an Architecture and the accompanying documentation and diagrams for a simple Stock/Share price backend.

Develop it using the .NET 6 framework.

Data Model

* Which gives access to the following Resources:
  + **Exchange**
    - Id, Name, IsActive
  + **StockSymbol**
    - Id, CompanyName, Ticker, IsActive, ExchangeId
  + **EODPrice**
    - Id, Date, ClosePrice, StockSymbolId

* + Resource Relationships:
    - Exchanges can have multiple StockSymbols
    - A StockSymbol can only belong to/have 1 Exchange
    - StockSymbols can have multiple EODPrices
    - An EODPrice can only belong to/have 1 StockSymbol
    - EODPrices and Exchanges are not directly linked.

REST and Application requirements

* Which exhibits the following attributes:
  + RESTful access to the specified resources above
    - Provides typical CRUD Functionality, examples:
      * Return a list of all Exchanges
      * Create a new StockSymbol
      * Update an EODPrice
    - Provides typical access to related resources, examples:
      * Return a list of all StockSymbols for a given Exchange
      * Return a list of all EODPrices for a given StockSymbol, within in a certain date range
    - Note: Not limited to *just* the example endpoints listed above! Use your discretion when choosing what endpoints to add.

* + N-tier/Multi-Layer Architecture
    - Project for each layer in the solution (Demos knowledges of Separation of Concerns)
      * API/Endpoint Layer
      * Business Logic Layer
      * Domain Model Layer
      * Data Access Layer
        + For demo purposes, this can interact with a SQLite DB
        + Uses Entity Framework Internally

With .NET Core, needs to be Code-First

With .NET Framework, it can be either DB or Code-First

* + Data Validation
  + Postman Workspace with example calls to the Endpoints
  + No Errors - should build and run

For Demo purposes, Database tables can be filled with Dummy-data generated via <https://www.mockaroo.com/>