Navtech Dot Net Coding Assessment

Object of DOT NET API Coding Assessment

The goal of this test is to assess skills for development of Restful API's in ASP.NET MVC project and assess your understanding of business requirements, database design and stored procedure.

Requirements

- Develop an **Order Management System** with Rest API's where API clients will be able to add orders, edit orders, delete orders and view orders.
- An order contains buyer information, order status, shipping address. An order can have many order items. Each order item has a quantity and is associated with a product. A product has properties name, weight, height, image, Stock Keeping Unit (SKU), barcode and available quantity.
- Develop Web API's where API clients can add orders update orders, delete orders, view orders.
- Order can have statuses: Placed, Approved, Cancelled, In Delivery, Completed
- There are two user roles: Administrator and Buyer. Buyer should be able to see only their orders, Administrator should be able to see all orders in the system
- Once order has been placed, buyer should receive an email.
- **Technical Requirements:**
    - Use ASP.NET MVC Web API
    - Use ASP.NET MVC 4.5
    - Use SQL Server Express Edition
    - Use Microsoft Visual Studio Community Edition
    - Use Postman for testing the developed API's
    - Use RestFul Standard
    - Use Stored procedure where necessary to perform joins
    - Use Nuget package manager for dependencies
    - There is no need of any user interface. Everything need to be tested from a Rest Client like Postman
- **Submission Details:**
    - Once all your code is done, please push your code to a github public repository.
    - Please share the github repository to us so that we can review the code. A document explaining your approach would be good. The document can also explain if something is not done as per requirement and what are the problems that you faced.