Code Challenge

"My Dinner" is a famous restaurant to eat dinner and due to the high demand they've had they decided to offer some of their dishes at home through an app.

For now they will only offer their most requested dishes from 3 types of cuisine: Mexican, Italian and Japanese. After analyzing some of the existing apps on the market they decided to develop their own app since the existing ones charge a very high commission and did not suit them. To develop the "My Dinner" app they hired the company "My Soft".

For this project "My Soft" made two teams of developers, a frontend team dedicated to develop the mobile app and a backend team in charge of developing the REST API that the app will consume.

Suppose you are part of the backend team and as part of your first tasks you were assigned the following:

1. Model and build the first version of the database to store the customer catalog, the dish catalog and the orders made by clients. As part of the task you will have to choose the type of BD that suits you the most. It can be SQL or NoSQL or a combination of both.

a. The minimum data of the client are: email (Id), name, address(es) and phone number (you are free to add more if you consider it important).

b. The minimum data of a dish are: Id of dish, name, description, price, type of cuisine (Mexican, Italian or Japanese) and status (Available, Not available).

c. The minimum data of an order are: order Id, client, date and time of order, customer address, total amount and detail (list) of dishes considering for each dish the quantity, unit price and subtotal.

2. Develop an application with the framework of your choice (preferably in Java using Spring framework) to implement REST services listed below.

a. Services to create and update.

b. Service to request an order, considering the following validations:

I. It can hold at least 2 dishes

II. The service hours through the app are from 4:00 p.m. to 9:00 p.m. (GMT-6, Mexico City Time)

c. Service to check the number of dishes sold by type of cuisine that are within a range of dates passed as parameters.

Some technical considerations:

- All service requests and responses must be in JSON
- Currently no authentication or authorization of these services is required
- The code must be of production quality
- The project must be running in order to validate the REST services with a client (Postman)