**Coding Exercise**

In the technology stack of your choice, create an Order microservice that has the following characteristics:

1. A persistent data store
2. An API to query for
   1. a specific order by *OrderNumber*
   2. a list of orders filtered by *CustomerId* and *CreatedDate* between the given *StartDate* and *EndDate,* where *CustomerId* and *StartDate* are required and *EndDate* is not required
3. An API to accept commands to
   1. Create an Order
      1. OrderNumber will be null
      2. Total will be null
      3. Status will be “Pending”
   2. Update an Order->Total
   3. Update an Order->Status
      1. If the Order->Status is “Billed”, “Shipped” or “Delivered”, also submit a message to a service bus queue with the current state of the order in the message
4. Unit-tests

**Data Model for Order**

**Field** **Type**

Id bigint

CustomerId bigint

OrderNumber varchar (16)

Total decimal (10,2)

CreatedDate datetimeoffset

Status varchar (16) (possible values: Pending, Ordered, Billed, Shipped, Delivered)

Please archive your exercise into a zip file and email it to me end-of-day before the interview.  You may have to rename the zip file to something like *filename.archive* instead of *filename.zip*.  You may also be able to join the MS Teams meeting ahead of time and upload the file there if that is more convenient.