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DPO International Assignment

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Anas <anas.m@dpointernational.com> Mon, Aug 23, 6:07 PM (6 hours

to me, Arnaud

Dear Khan Nasik Sami,

Thank you for attending the interview last Saturday. Would it be possible for you to perform a small assignment that would be presented to us on Friday afternoon 27/8/2021 @2PM.

The DPO environment is made of multiple applications that have separate Databases and each have separate core functionalities run on a separate server: order management (OMS), warehouse manageme management (DMS). Orders placed by customers go from one system to the next. They start in OMS, then are processed in WMS and finally scheduled for delivery in DMS.

We would like you to design a service that will communicate with all three applications by storing any comments and messages that users make related to an order in any of the applications and also allow a u made related to an order in any application.

- The goal is to create a service that communicates through APIs. There is no front-end in this service.
    - One API saves user messages/comments related to a specific Sales Order.
        - Each comment is made of maximum 200 characters. No restrictions on the characters
    - A second API returns the list of all the comments made related to a specific Order.
- DB of the new service:
    - Design the DB structure that will hold all the messages created by users
    - For each order we need information related to:
        - Application where the message was logged from. Only 3 options are possible: OMS/DMS/WMS. This is mandatory & cannot differ from the list
        - The order status at the moment the message was logged. Only the following are allowed: Open, picked, packed, shipped, delivered, cancelled. This is mandatory & cannot differ fro
        - The username of the person keying in the message. This is mandatory
        - The date & time of the message. Mandatory and taken from the system itself (not sent by the user)
        - The message itself. This is mandatory and cannot be blank
        - The Order Number which is mandatory.
    - Perform data validation:
        - If a mandatory field is not inputted then an appropriate and useful error message needs to be returned
        - If information does not match with what is expected, an error message needs to be returned
- Discuss how you would host this service: where and how.

Please use C#, ASP.Net MVC & SQL to manage all different parts. For the APIs and during the discussion, please show your results using Postman: https://www.postman.com/.