Instructions:

1. Read the instructions carefully all the way down. It will save you time, don't develop what is not required.
2. Write your code in IDE and make sure it compiles and runs. Send the entire project without the bin content zipped.
3. Code should be written in C#.
4. Write comments in the code to explain what you did. If you feel it’s needed – add a readme.txt file.

Exercise 1:

In order to report all purchases to a third party stakeholder (TPS), you need to create a new API.

This API should allow the third party to read purchases in bulks and continue from last bulk.

In other words: Each purchase has a purchase date, and the server will return items from a specific date in chunks that are defined by the caller.

Example:

## Let’s say these are all the current purchases:

|  |  |  |
| --- | --- | --- |
| ItemNo. | Amount | PurchaseDate |
| 1 | 1 | 2019-11-26 16:09:31 |
| 2 | 5 | 2019-11-26 16:09:31 |
| 3 | 56 | 2019-11-26 16:09:32 |
| 4 | 22 | 2019-11-26 16:09:32 |
| 5 | 154.5 | 2019-11-26 16:09:32 |
| 6 | 35.56 | 2019-11-26 16:09:32 |

## TPS starts reading - Request

|  |  |
| --- | --- |
| Start from | BulkSize |
| 1900-01-01 00:00:00 | 5 |

## Response

|  |  |  |
| --- | --- | --- |
| ItemNo. | Amount | PurchaseDate |
| 1 | 1 | 2019-11-26 16:09:31 |
| 2 | 5 | 2019-11-26 16:09:31 |
| 3 | 56 | 2019-11-26 16:09:32 |
| 4 | 22 | 2019-11-26 16:09:32 |
| 5 | 154.5 | 2019-11-26 16:09:32 |

## TPS continue to next bulk

|  |  |
| --- | --- |
| Start from | BulkSize |
| 2019-11-26 16:09:32 | 5 |

And so on…

**Your task**

1. **No need for database implementation** – instead, use a stub method to generate data for TPS.
2. Implement as REST API.
3. Make sure you have proper API architecture and layers.
4. **What is the problem with this design? Find a better solution and implement it.**

Answer:

4) the problem with this design is that we run on date and time, if we put late time we can miss some of the

purchase in the day himself.

We need to check only the date without the time

GOOD LUCK!