Project Phase 4

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This is the last step of the project. You are expected to create a service which would help your users to communicate with system. An example would be a complaint service where users could write their complaints about the product and send them to the system. Another example would be a comment system where users could comment on a song, or about their view on a film.

To store this kind of information, you will need to use a NoSQL database, MongoDB Atlas, and create two different collections for your project which will be used to store data for some systems like the examples that are provided previously. Your collections **must serve a different purpose than your tables** that you have created in relational databases. The purpose of your collection may not be significant, however try to make them useful as possible.

An example collection and document would be:

Collection 1: Film reviews

Document style:

```
{
    "film_id": 1,
    "name": "Star Wars: Empire Strikes Back",
    "user_id": 22873,
    "review_message": "The best in the series, except the part Luke cries",
    "given_star": 5
}
```

First, you need to create the system as an application in Python.

In this application, you need to be able to do:

1. Create a collection.
2. Read all data in a collection.
3. Read some part of the data while filtering.

4. Insert data.
5. Delete data.
6. Update data.

For these tasks**, you may follow the examples given in recitation 9 in GitHub repository.**

https://github.com/hasan-ert/cs306-202302-recit

To provide these features, you need to divide these into functions, where each function is responsible for one of the actions given above. Your functions should be able to work in a way that, regardless of the collection they are dealing with, they should accomplish their purposes.

You also need to take the data from users. A graphical user interface **(GUI) is not required**, but if you wish you may create it, however, **you must create a basic input system that will help users to select the action they want to take, and then take the data that is required for the action.**

As an example, for the review system:

Welcome to Review Portal!

Please enter your user id:

22873

Please pick the option that you want to proceed.

1- Create a collection.
2- Read all data in a collection.
3- Read some part of the data while filtering.
4- Insert data.
5- Delete data.
6- Update data.

Selected option: 4

Please select the collection you want to insert data:

1– Film Reviews

2- TV Show Reviews

Selected option: 1

Please enter the data fields:

name: Star Wars: Empire Strikes Back
review_message: The best in the series, except the parts Luke cries.
given_star: 5

The data was successfully inserted!

What would you like to do next?

1. **Create a collection.**
2. **Read all data in a collection.**
3. **Read some part of the data while filtering.**
4. **Insert data.**
5. **Delete data.**
6. **Update data.**

.....

The functionality is expected to be similar to the example provided.

For each collection, you need to show that all your functionality works. You may take a screenshot of the interaction with the system for each option.

So, in the end, you will add 6 + 6 = 12 screenshots.

In the end, **you need to submit a zip file that contains a report in PDF format, along with your python files as a group.** So, only one submission will be enough.

This week's recitations will be in office hour format, so you may ask your questions during them.

Best,

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