Project Phase 4

Muhammed Arda Akkan 29099 İdil Güler 29570 Halil İbrahim Umut Çolak 28879

Review Portal Application Report

Introduction

The Review Portal Application serves as a user interface to interact with MongoDB Atlas, allowing users to manage and manipulate data in collections dedicated to reviews. The system was developed using Python, integrating MongoDB's functionalities to perform operations like creating, reading, updating, and deleting (CRUD) data.

Purpose

The purpose of this project was to create an interactive system enabling users to:

Perform CRUD operations on two distinct collections: "Film Reviews" and "TV Show Reviews".

Utilize a command-line interface (CLI) for input and interaction.

System Overview Technologies Used

Programming Language: Python

Database: MongoDB Atlas Python Libraries: pymongo

Functionality

The application encompasses various functions corresponding to CRUD operations:

Create Collection: Allows the creation of a new collection.

Read All Data: Retrieves and displays all documents in a collection.

Read Filtered Data: Retrieves specific documents based on user-defined filters.

Insert Data: Enables users to add new reviews to the collections.

Delete Data: Removes specific records from a collection. Update Data: Modifies existing records in the collections.

Workflow Example

An example workflow of the system interaction was demonstrated as follows:

User Input:

Identification: User enters their unique ID.

Action Selection: Chooses from a set of actions (e.g., Create, Read, Update, Delete).

Action Execution:

Based on the selection, the user interacts with the desired functionality.

For instance, inserting a review in a chosen collection by providing necessary data fields.

Result Confirmation:

Conclusion

The Review Portal Application successfully integrates MongoDB Atlas functionalities to provide a user-friendly interface for managing reviews. The application's modular design allows seamless interaction and manipulation of data within the collections.

Future Enhancements

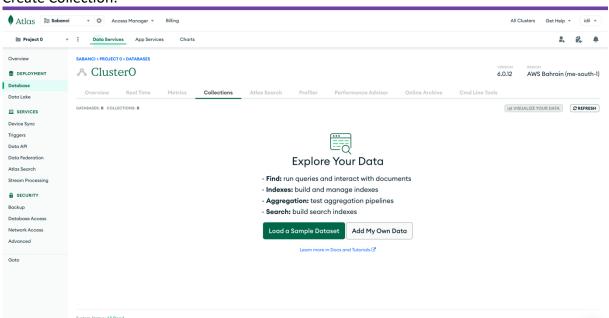
Potential enhancements for future iterations of the application may include:

Implementing a graphical user interface (GUI) for improved user experience. Adding user authentication and authorization for secure access.

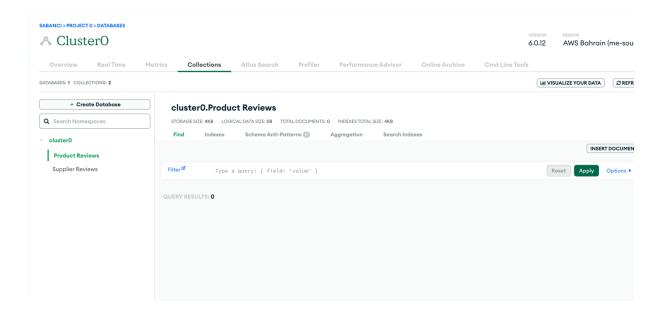
Enhancing error handling and validation mechanisms.

This report structure offers an overview of the project's objectives, functionalities, workflow, and demonstration of key features through screenshots. You can elaborate further on specific functionalities, challenges faced during development, and potential future improvements based on your project's scope and requirements.

1- Create Collection:



Connection established to your db Welcome to Review Portal! Please enter your user id: 100 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. 0- Exit. Selected option: 1 1- Product Reviews 2- Supplier Reviews Enter the option you want to create: 1 Collection 'Product Reviews' created. 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. 0- Exit. Selected option: 1 1- Product Reviews 2- Supplier Reviews Enter the option you want to create: 2 Collection 'Supplier Reviews' created. 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. 0- Exit. Selected option:



2- Read All Data

```
■ __id: ObjectId('659842da95dc89fe055fc7c4')

user_id: "User_l"

supplier_cating: 4

supplier_comments: "Good service overall, timely delivery."

—id: ObjectId('659842da95dc89fe055fc7c5')

user_id: "User_2"

supplier_comments: "Average service quality, room for improvement."

—id: ObjectId('859842da95dc89fe055fc7c6')

user_id: "User_3"

supplier_comments: "Excellent service, exceeded expectations."

—id: ObjectId('859842da95dc89fe055fc7c7')

user_id: "User_4"

sunnlier_rating: 2
```

tlas Blog Contact Sales

```
4- Insert data.
5- Delete data.
5- Delete data.
5- Delete data.
5- Delete data.
5- Delete data.
5- Delete data.
5- Delete data.
6- Description:
5- Selected option: 2
5- Delete data.
5- Delete data.
5- Delete data.
5- Delete data.
5- Delete data.
5- Delete data.
5- Delete data.
5- Delete data.
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5- Delete data.
5- Delete data.
5- Delete data.
5- Delete data.
5- Delete data.
5- Delete data.
6- Delet
```

3- Read By Filter

```
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.

8 - Exit.

9 - Exit.

9 - Exit.

9 - Exit.

9 - Exit.

1 - Product Reviews

2 - Supplier Reviews

2 - Supplier Reviews

1 - Please enter the join you want read: 1

Please enter the join of the user that you want to see his/her reviews on Product Reviews: User_1

('id': ObjectId('6598428295689fe055fb3f8'), 'user_id': 'User_1', 'product_rating': 4, 'product_comments': 'Great product, meets expectations.')

('id': ObjectId('6598428295689fe055fb408'), 'user_id': 'User_1', 'product_rating': 4, 'product_comments': 'Great product, meets expectations.')
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.
```

4- Insert Into:

```
3- Read some part of the data while filtering.
4- Insert data.
5- Delete data.
6- Update data.
0- Exit.
Selected option: 4
1- Product Reviews
2- Supplier Reviews
Enter the ontion you want to incert into 1
 2- Supplier Reviews
Enter the option you want to insert into: 1
Rate the product (1-5): 1
Any comments about the product: Berbat
Insertion successfully completed
Inserted document ID: 65984395b33d6a1548ee0bea
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.
 3- Read some part of
4- Insert data.
5- Delete data.
6- Update data.
0- Exit.
Selected option: 4
Selected option: 4
1- Product Reviews
2- Supplier Reviews
Enter the option you want to insert into: 2
Rate the supplier overall (1-5): 5
Any comments about the supplier: Great
Insertion successfully completed
Inserted document ID: 659843a2b33d6a1548ee0beb
What would you like to do next?

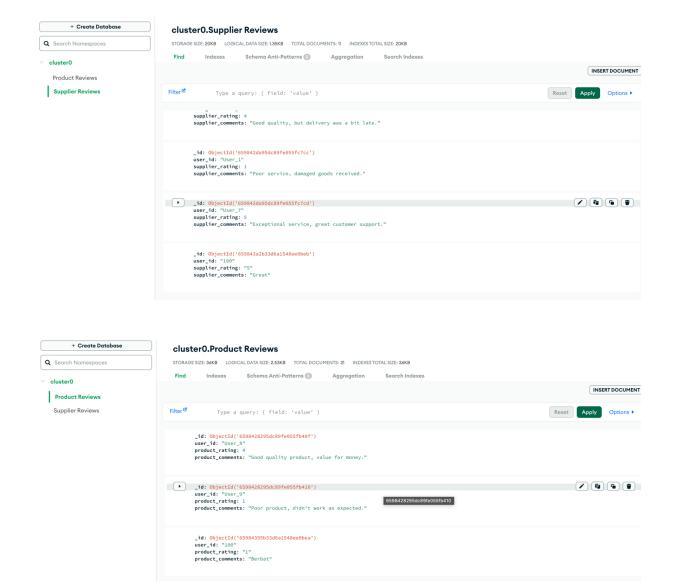
1- Create a collection.

2- Read all data in a collection.

3- Read some part of the data while filtering.

4- Insert data.

5- Delete data.
             Update data.
             Exit.
lected option:
```



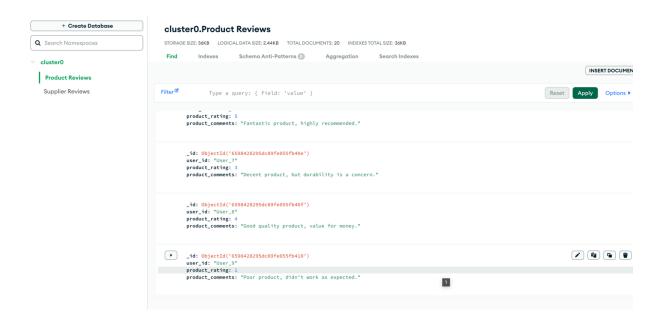
5- Delete:

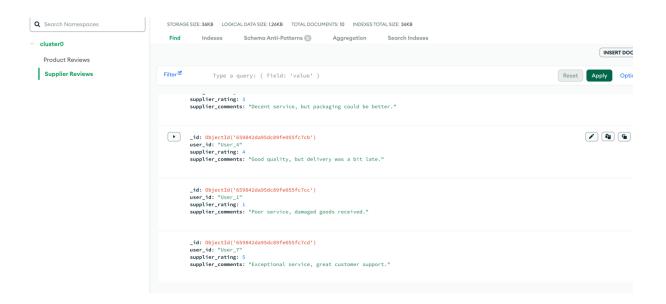
What would you like to do next? 1- Create a collection.
2- Read all data in a collection.
3- Read some part of the data while filtering. 4- Insert data. 5- Delete data. 6- Update data. 0- Exit.
Selected option: 5 1- Product Reviews 2- Supplier Reviews Enter the option you want delete from: 1
PLease enter the id of the user that you want to delete his/her review from Product Reviews: 100
Successfully deleted record with user ID 100 What would you like to do next?

1- Create a collection.

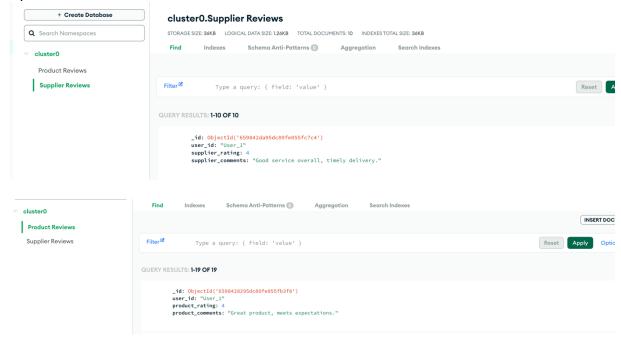
2- Read all data in a collection.

3- Read some part of the data while filtering. 4- Insert data. 5- Delete data. 6- Update data. 0- Exit. Selected option: 5 1- Product Reviews 2- Supplier Reviews Enter the option you want delete from: 2 PLease enter the id of the user that you want to delete his/her review from Supplier Reviews: 100 Successfully deleted record with user ID 100 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:



```
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.
0- Exit.
Selected option: 6
1- Product Reviews
2- Supplier Reviews
Enter the option you want to update: 1
Enter 1 to update product rating or enter 2 to update product comment: 2
PLease enter the id of the user that you want to update his/her review Product Reviews: User_1
Enter the new updated product_comments: not good
Successfully updated product_comments to not good
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.
0- Exit.
Selected option: 6
1- Product Reviews
2- Supplier Reviews
Enter the option you want to update : 2
Enter 1 to update supplier rating or enter 2 to update supplier comment: 1
Please enter the id of the user that you want to update his/her review Supplier Reviews: User_1 Enter the new updated supplier_rating: 2
Successfully updated supplier_rating to 2
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.
0- Exit.
Selected
```

