CS306 - Phase IV

Group Members:

Ersel Ridvan Ekmen 27781 Tan Ufuk Çelik 28285 Selenay Buse Batibay 30294

System Functionality and Interaction Report

Introduction

Our report outlines the functionality and user interaction for our MongoDB-based GUI designed to handle user-generated film reviews. The system offers a straightforward user interface for database interactions including creating collections, reading data, inserting new records, updating existing records, and deleting records as necessary based on a user id which is requested at the beginning of the program.

Database Structure

Our MongoDB database consists of two primary collections:

- 1. **Film Reviews**: This collection stores user reviews for various films, including a unique identifier for each film, the name of the film, a user ID for the reviewer, the review text, and a star rating.
- 2. **TV Show Reviews**: Similar to collection and its attribute in the Film Reviews collection, TV show reviews has name, user id, tv show id, and given star.

System Functionalities

1. Create a Collection

Users can create a new collection within the database.

User Interaction:

- User is prompted to enter a name for the new collection.
- On confirmation, the collection is created.

Screenshot: [Create Collection Interaction]





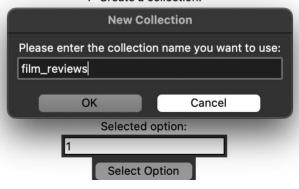
Review Portal

Please write your user id, then you must click enter button in your keyboard.

1234

Please pick the option that you want to proceed.

1- Create a collection.



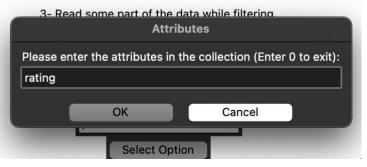
Review Portal

Please write your user id, then you must click enter button in your keyboard.

1234

Please pick the option that you want to proceed.

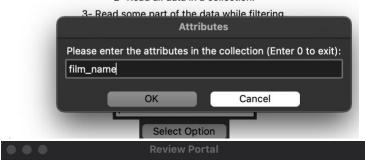
- 1- Create a collection.
- 2- Read all data in a collection.





Please pick the option that you want to proceed.

- 1- Create a collection.
- 2- Read all data in a collection.

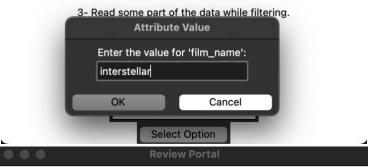


Please write your user id, then you must click enter button in your keyboard.

1234

Please pick the option that you want to proceed.

- 1- Create a collection.
- 2- Read all data in a collection.

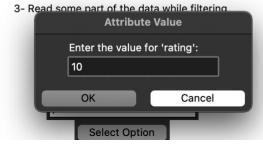


Please write your user id, then you must click enter button in your keyboard.

1234

Please pick the option that you want to proceed.

- 1- Create a collection.
- 2- Read all data in a collection.





Please write your user id, then you must click enter button in your keyboard.



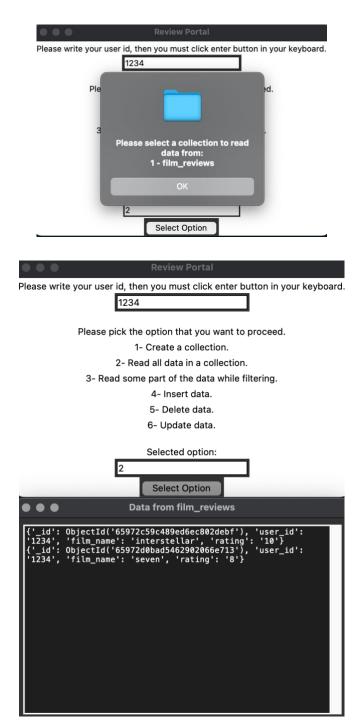
2. Read All Data in a Collection

This feature allows users to view all entries within a collection.

User Interaction:

- User selects the option to read all data.
- System displays all records from the chosen collection.

Screenshot: [Read All Data Interaction]



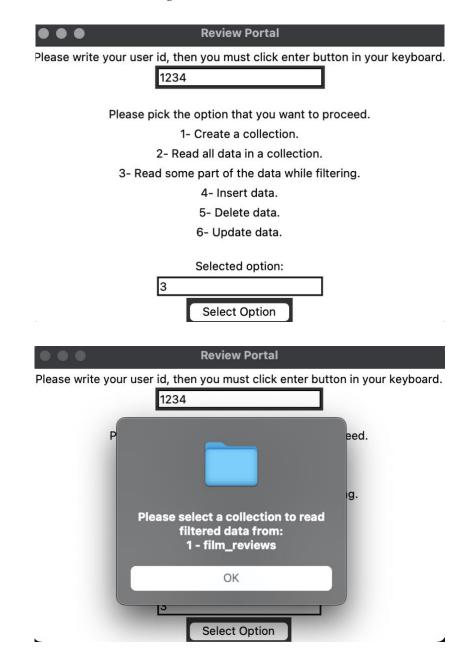
3. Read Data with Filtering

Users can filter and read specific data based on criteria such as film name or star rating.

User Interaction:

- User selects the option to read data with filtering.
- User enters the filtering criteria.
- System displays the records that meet the criteria.

Screenshot: [Read Data with Filtering Interaction]





Please pick the option that you want to proceed.

1- Create a collection.



Please write your user id, then you must click enter button in your keyboard.

1234

Please pick the option that you want to proceed.



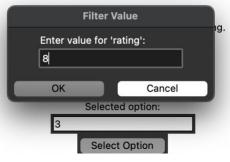
Review Portal

Please write your user id, then you must click enter button in your keyboard.

1234

Please pick the option that you want to proceed.

1- Create a collection.





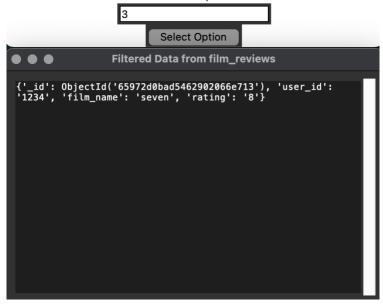
Please write your user id, then you must click enter button in your keyboard.

1234

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:



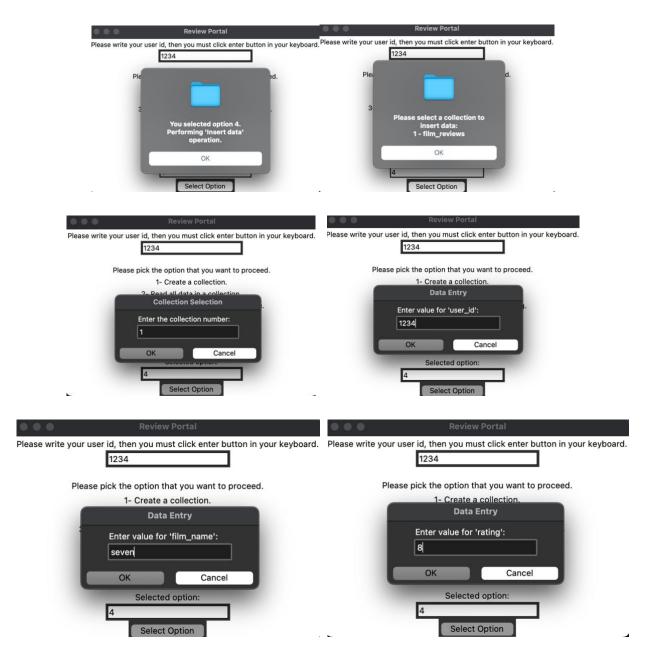
4. Insert Data

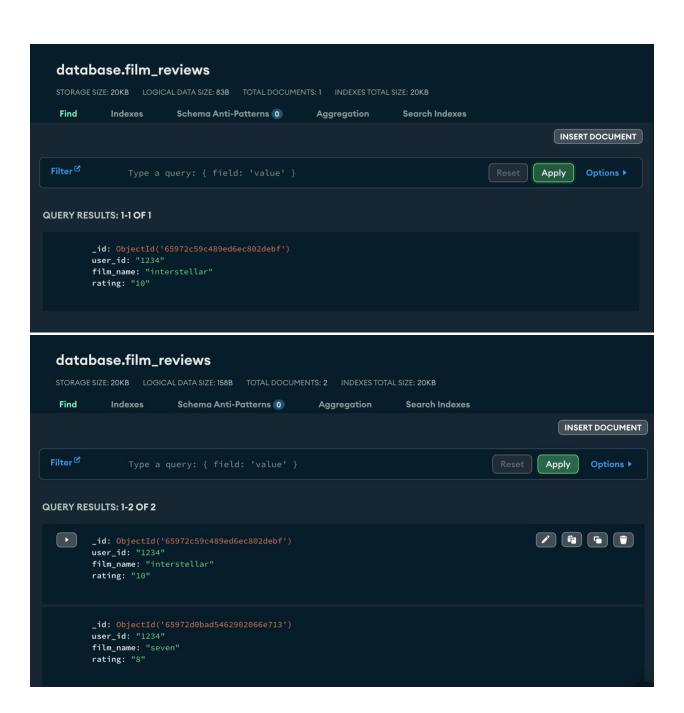
New data can be added to any collection.

User Interaction:

- User chooses to insert data.
- User is prompted to enter data fields such as film name, review, and rating.
- Upon entry, the data is inserted into the collection.

Screenshot: [Insert Data Interaction]





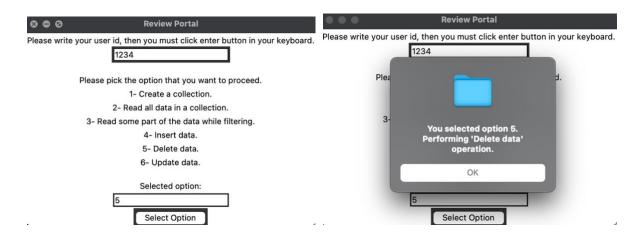
5. Delete Data

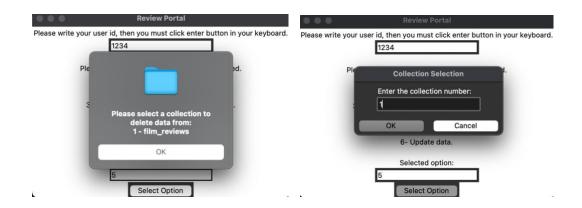
Users can delete existing data from a collection.

User Interaction:

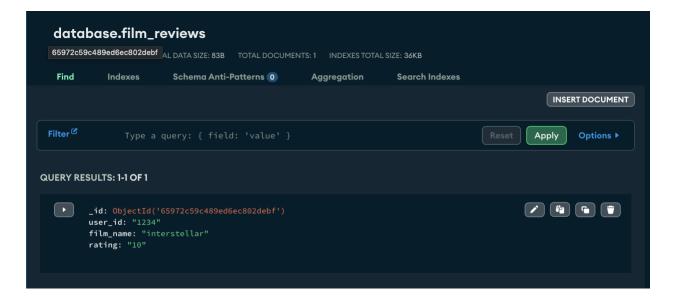
- User selects the option to delete data.
- User provides the identifier for the data to be deleted.
- System removes the data from the collection.

Screenshot: [Delete Data Interaction]









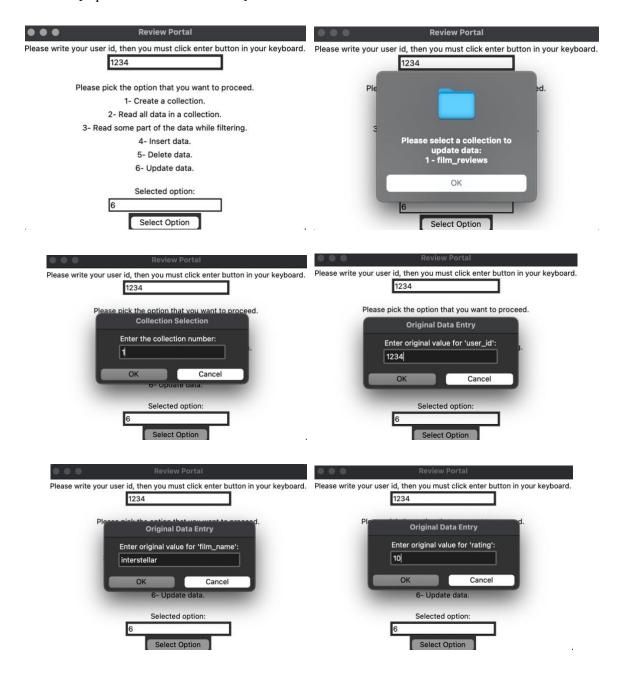
6. Update Data

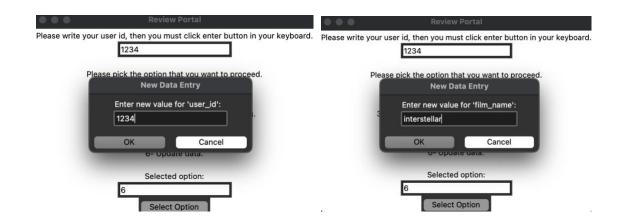
This function allows users to update existing entries in the database.

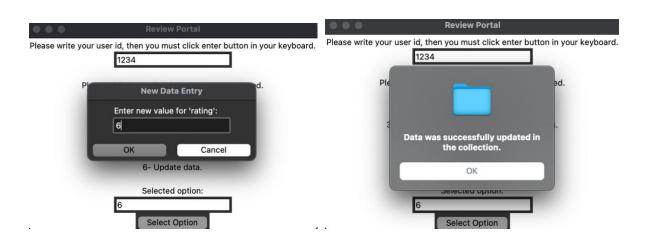
User Interaction:

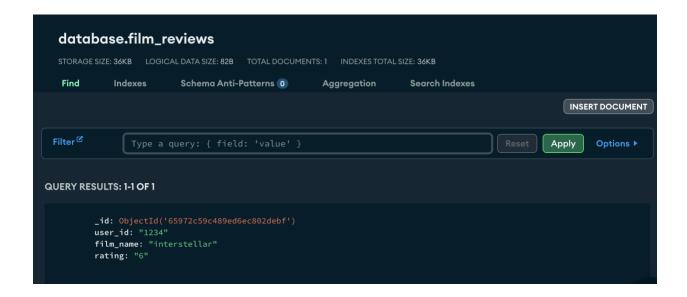
- User selects the update data option.
- User provides the identifier for the data to be updated and the new values.
- System updates the record in the collection.

Screenshot: [Update Data Interaction]









Conclusion

The system provides an efficient and user-friendly interface for managing user-generated content within a MongoDB database. It ensures flexibility and ease of use in data manipulation, catering to a wide range of applications from film reviews to user complaints.