

CSC2001:ASSIGNMENT 1 :TOKTIK

1. OO DESIGN

Account: This class represents an account for the TokTik app. It manages the account information as a whole such as a username description and posts.

BT: Short for Binary Tree. It creates a binary tree that stores account objects and uses the account username as a key to sort through accounts.

Database: Creates a database that uses a binary tree using the BT class and Accounts class and creates methods that can access the account information. It was made to make implantation in the main TokTik class easier.

2. TESTING

To test the following, data from the provided dataset.txt file were used as well as entries that were made up:

The following menu loads when the program is run



Option 1: Find the profile description for a given account

Accounts used: Greedo7 , 4-LOMO, and a nonexistent account -Lin

Greedo7:

Expected output : sublimates nothing's tendency

Output from the program:



4-LOMO

Expected output: The profile description is: miniscule's Hamlin's Lorenz

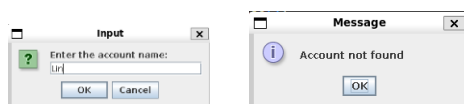
Output from the program:



Lin:

Expected output: Account not found

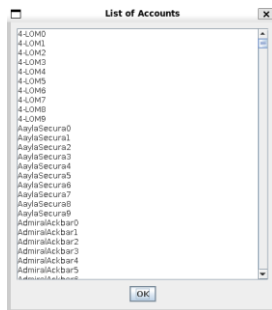
Output from the program:



Option 2: List all accounts

Expected output: a list of accounts from the dataset.txt file

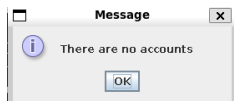
Output from program:



With no accounts present in the database:

Expected output: There are no accounts

Output from program:



Option 3: Create an account

Test account

Name: Ankush

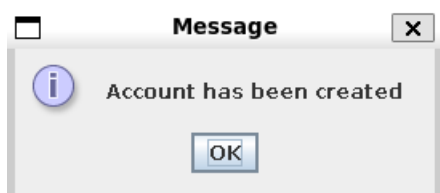
Profile description: I love dogs

Post title: Dogs vs Cats

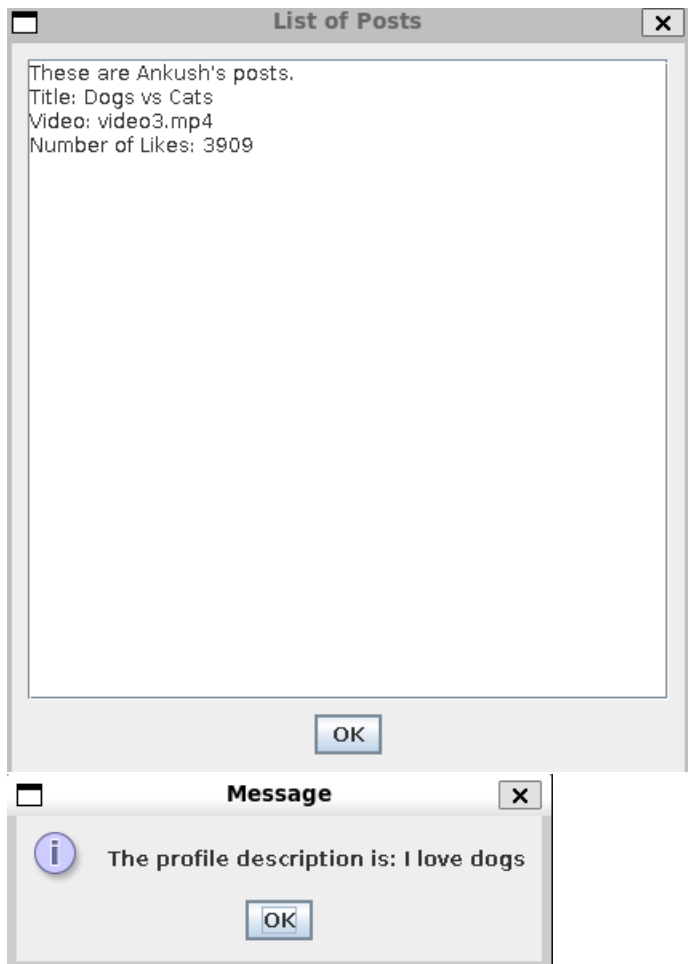
Video: video3.mp4

Number of likes: 3909

Program output:



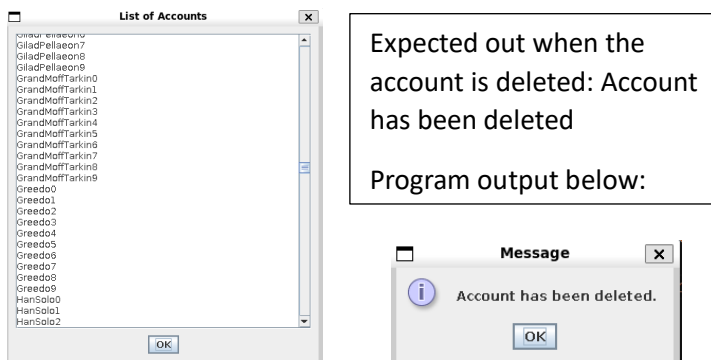
The following is the post that is associated with the account and the account description to show that it has been loaded into the database using the -5. Display all posts for a single account and 1. Find the profile description for a given account



Option 4: Delete an account

Using the accounts loaded from the dataset.txt:

Greedo7 has been deleted:

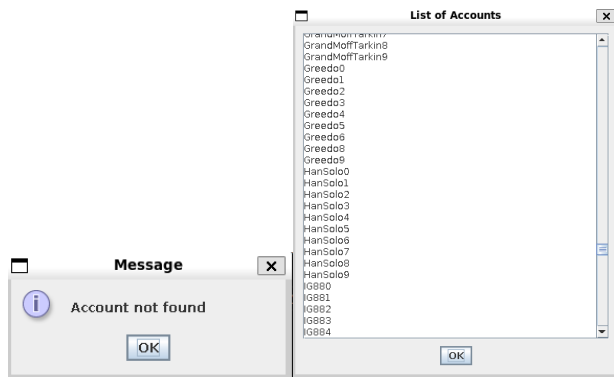


To test if the account is no longer in the database, I have used the list accounts option and then find profile description:

Expected output: Account not found

Expected output from List of Accounts: No Greedo7 is present in the outputted list

Program output:



Option 5: Display all posts for a single account

Using the Ankush Account

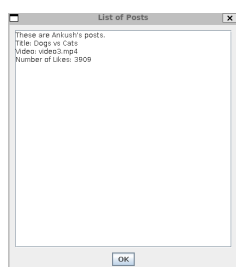
These are Ankush's posts:

Title: Dogs vs Cats

Video: video3.mp4

Number of likes:3909

Output from program:



Option 6: Add a new post for an account

Adding a posts to Ankush's account:

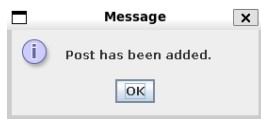
Title: Dogs vs Cats

Video: video3.mp4

Number of likes:3909

Expected output after data is entered: Post has been added

Program output:



To test if the post has been added as the most recent(it is the first post in the list of posts) the list posts option is used:

Expected output:

These are Ankush's posts.

Title: i hate cats

Video: video.mp4

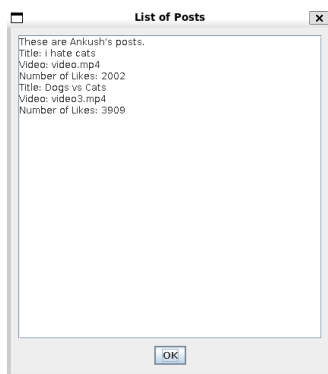
Number of Likes: 2002

Title: Dogs vs Cats

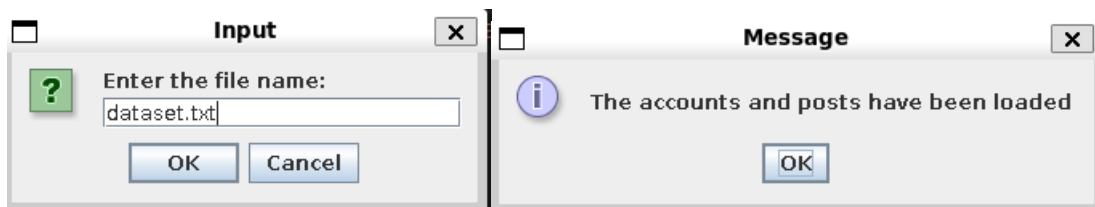
Video: video3.mp4

Number of Likes: 3909

Program output:



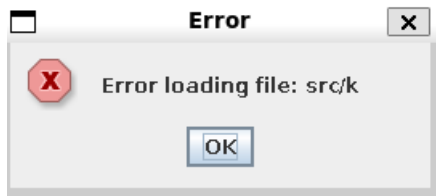
Option 7: Load a file of actions from the disk and process this



If a file does not exist or the wrong name is added: using "k" as a test

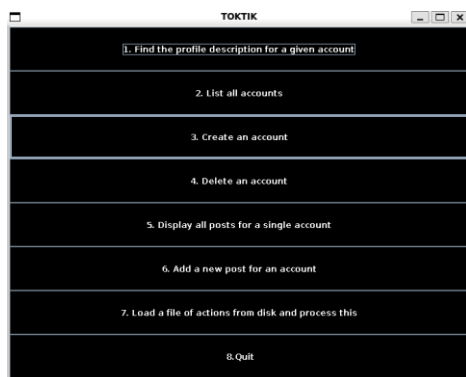
Expected output: Error loading file

Program output:



3. CREATIVITY:

A GUI interface was used. A window with the menu where a user can select one of the options is generated and separate dialogs are generated for each option to be carried as one would expect when using a mobile app. Once the operations are concluded the program returns to the menu without the user having to click a return button. The background of the menu was changed to black and white to imitate the TikTok colour scheme.



4.GIT-LOG

0: commit 18bb47f8c6b53a0b58986c5c4050915415a2a200

1: Author: Tinashe-Timba <tmbtin004@myuct.ac.za>

2: Date: Mon Apr 17 10:18:27 2023 +0200

3:

4: last changes

5:

6: commit fc2af68ee0d1cc639ad599486047b435f4777a3f

7: Author: Tinashe-Timba <tmbtin004@myuct.ac.za>

8: Date: Sat Apr 15 17:49:10 2023 +0200

9:

TINASHE TIMBA
TMBTIN004

...

61: Author: Tinashe-Timba <126238516+Tinashe-Timba@users.noreply.github.com>

62: Date: Fri Mar 31 11:27:07 2023 +0200

63:

64: Update README.md

65:

66: commit d4727250450ef2edf6a4c235998af9694fa513e5

67: Author: Tinashe-Timba <126238516+Tinashe-Timba@users.noreply.github.com>

68: Date: Fri Mar 31 11:24:41 2023 +0200

69:

70: Initial commit