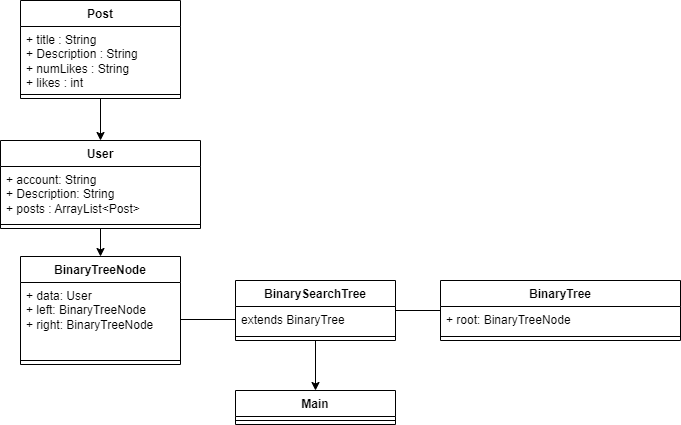
Aimee Simons

SMNAIM002

CSC2001F Assignment 4

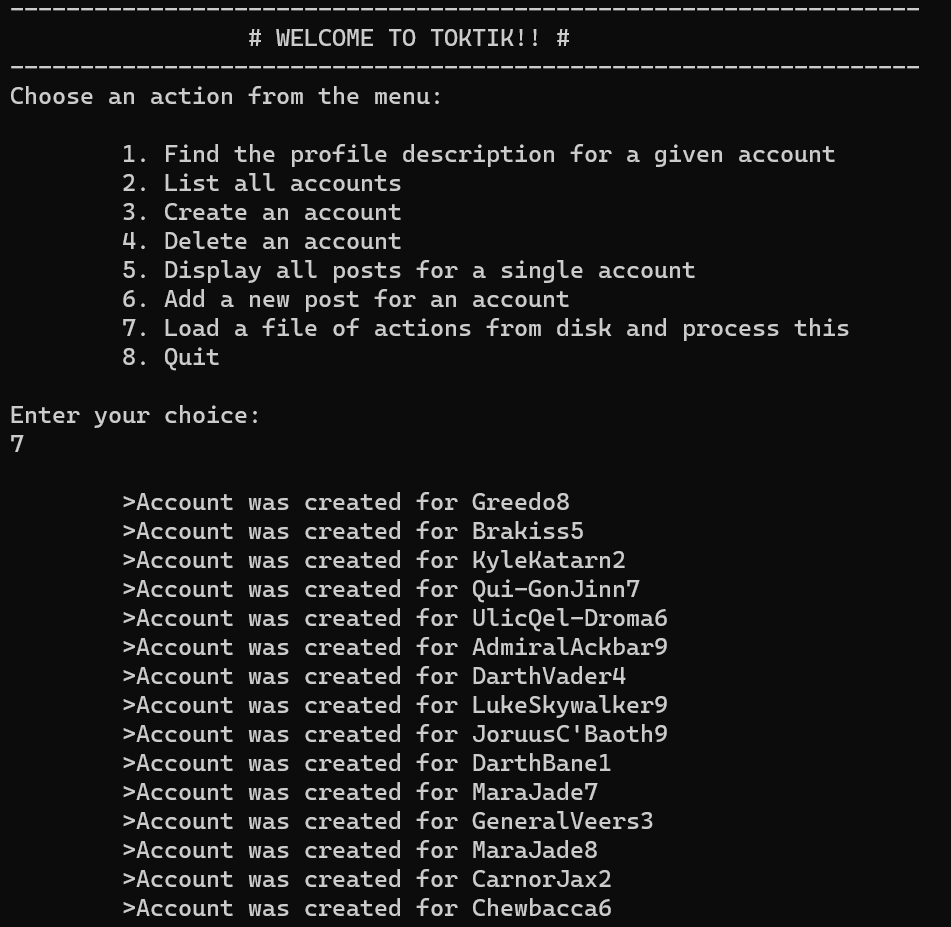
**Classes Used:**



|  |  |  |
| --- | --- | --- |
| Class Name | Description | Interactions |
| Post | This class was created to store the 3 attributes of a post; these being the title, the video file and the number of likes. | A Post object is saved in an ArrayList in the User Class. |
| User | This class was created to store the 3 attributes of a user; these being an account name, the profile description and a list of posts (stored in an ArrayList of type Post) |  |
| BinaryTreeNode |  |  |
| BinarySearchTree |  |  |
| BinaryTree |  |  |
| Main |  |  |

**Testing the program with different values**

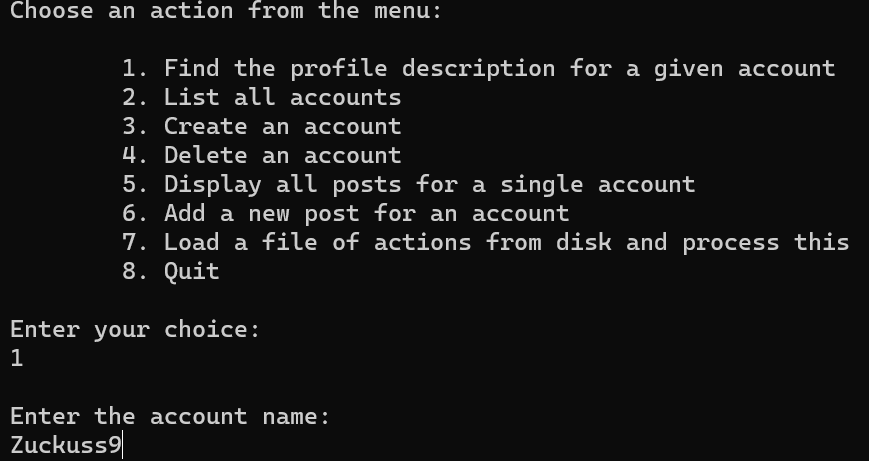
The Binary Search Tree was initialised with Users and Posts as given by the dataset.txt file. This provided a good basis for adding and deleting from the Tree.



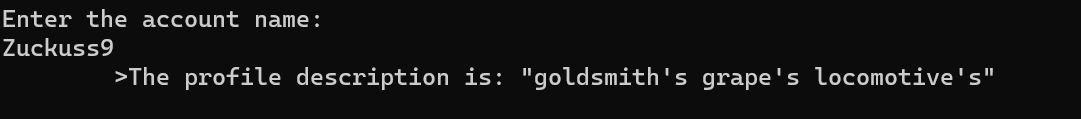
Testing for Action 1: (Find the profile description for a given account)

Test for when username exists:

Input



Output



Test for when username does not exist:

Input

Text

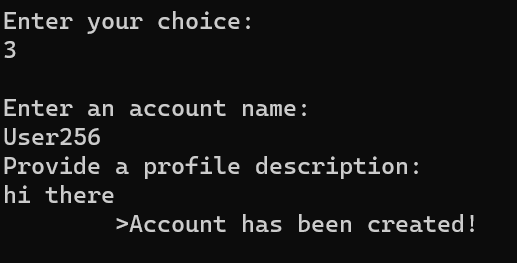
Description automatically generated

Output

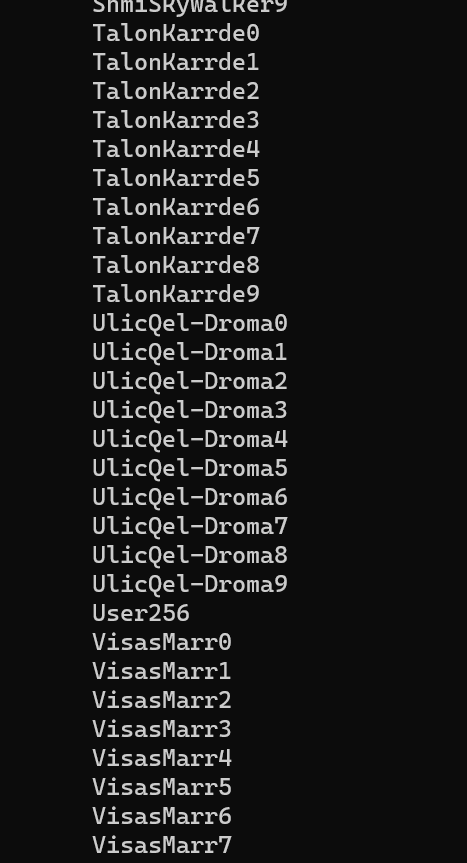
Graphical user interface, text, website

Description automatically generated

Testing for Action 3: (Create an account)

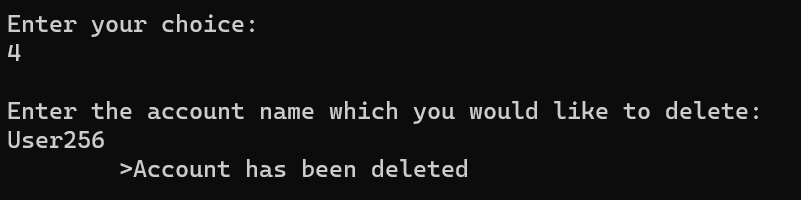


Listing accounts to confirm account has been created:

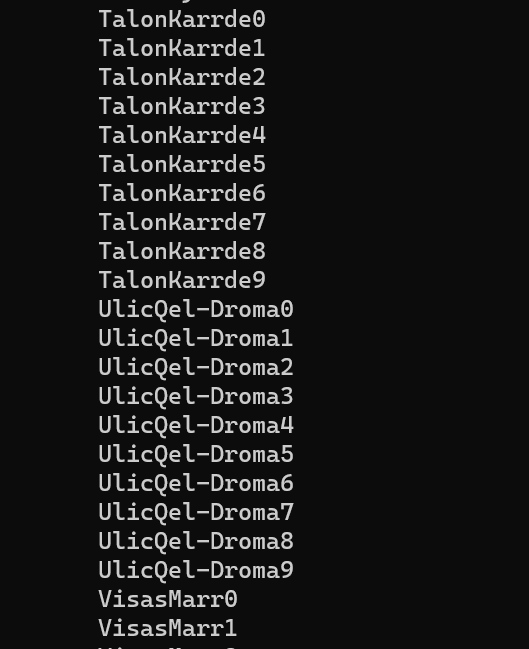


Testing for Action 4: (Delete an account)

Input when a username that exists has been provided.



Listing the accounts:



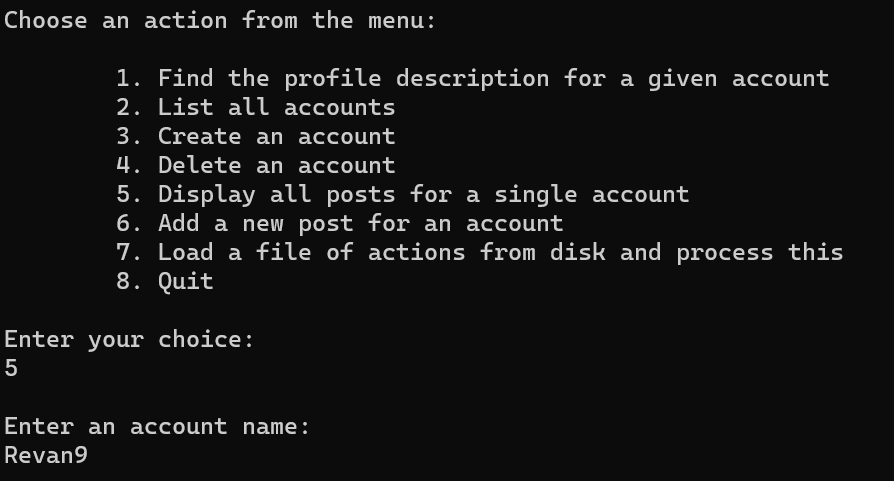
Input when a username that exists has been provided.

Text

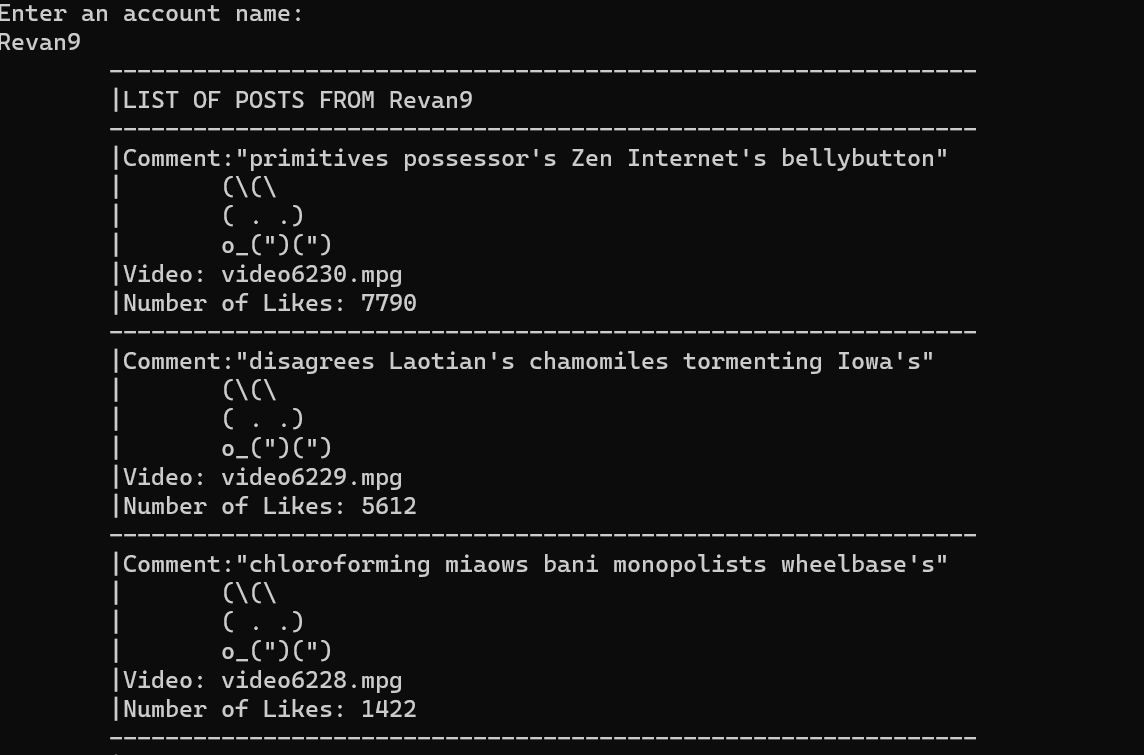
Description automatically generated

Testing for Action 5: (Display all the posts for a single account)

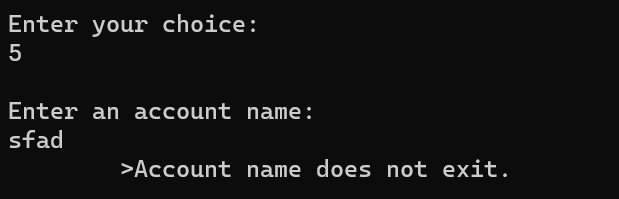
Input



Output

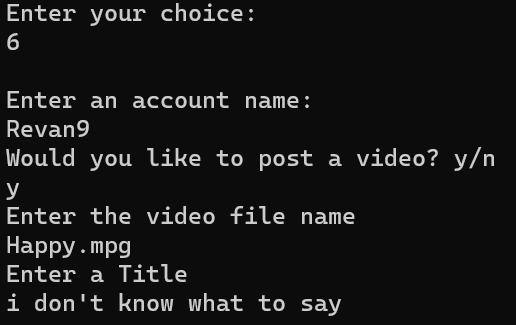


Output when account name entered doesn’t exist:

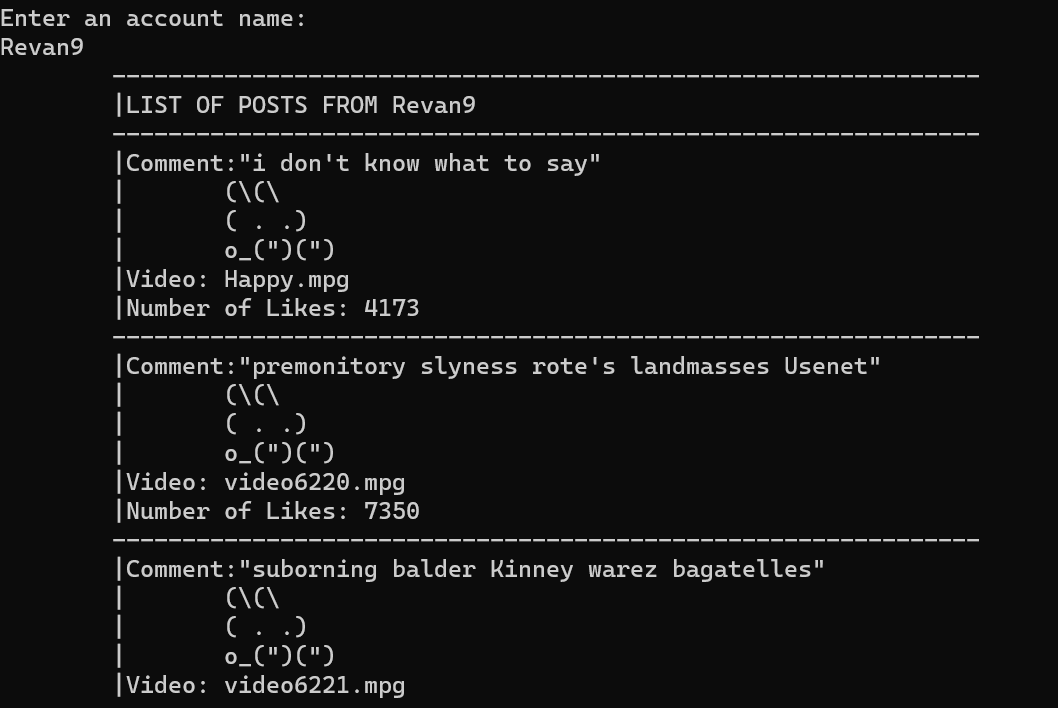


Testing for Action 6: (Add a new post for an account)

Input



Output when listing all their posts



**Creativity included:**

The text- based interface was adjusted to make it feel more interactive and reading it a bit easier- by use of tabs and dashed lines as separators. For action 5, - Listing the posts for a single account- an ascii bunny was used in the output. Since a GUI was not used, this was an alternative to having a video icon.

**Git Log**

