YouTube Management System

Introduction

This project is a command-line based YouTube Management System implemented in C. It allows users to perform various operations related to YouTube channels, such as creating new channels, watching videos, searching, subscribing, and accessing records. The system demonstrates the use of structures, file handling, and dynamic user interactions.

Concepts used : structure , file handling , loops, pointer,functions,conditional statements

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Features

1. Create New YouTube Channel

Allows users to create a new YouTube channel by providing details such as:

- ❖ Channel Name

- ❖ Category

- ❖ Owner's Name

- ❖ Aadhar Number

- ❖ Account Opening Date

- ❖ Social Media Information (Instagram and Gmail)

- ❖ Address (Village, City, State, Country, PIN)

- ● Saves the entered details into a file named create.txt.

2. Watch YouTube Videos

Provides options to watch different types of videos:

- ➢ Long Videos: Categorized into Music, Cartoons, Cricket, and Gaming.

- ➢ Shorts

- ➢ Mood-based recommendations (Happy or Sad moods).

- ● Reads video content or recommendations from respective files (ytmusic.txt, ytcartoon.txt, ytcricket.txt, ytgaming.txt, ytshorts.txt, happymood.txt, sadmood.txt)

3. Search Something

- Allows users to search for specific content within the file search.txt.

- Displays the matched content if found.

4. Maximum Subscriber's YouTube Channel Names

❖ Displays the channels with maximum subscribers by reading data from maxsub.txt.

5. Maximum Likes YouTube Videos

❖ Displays the most-liked YouTube videos by reading data from mostlikeyt.txt

6. Compare Two YouTube Channels

❖ Compares two YouTube channels and shows the details stored in the file cmpytchannels.txt.

7. YouTube Records

❖ Displays various YouTube records by reading the data from ytrecords.txt.

8. Subscribe to YouTube Channels

➢ Displays a predefined list of YouTube channels.

➢ Allows users to subscribe to a channel by entering its name.

➢ Subscribed channels are appended to the file subsclist.txt.
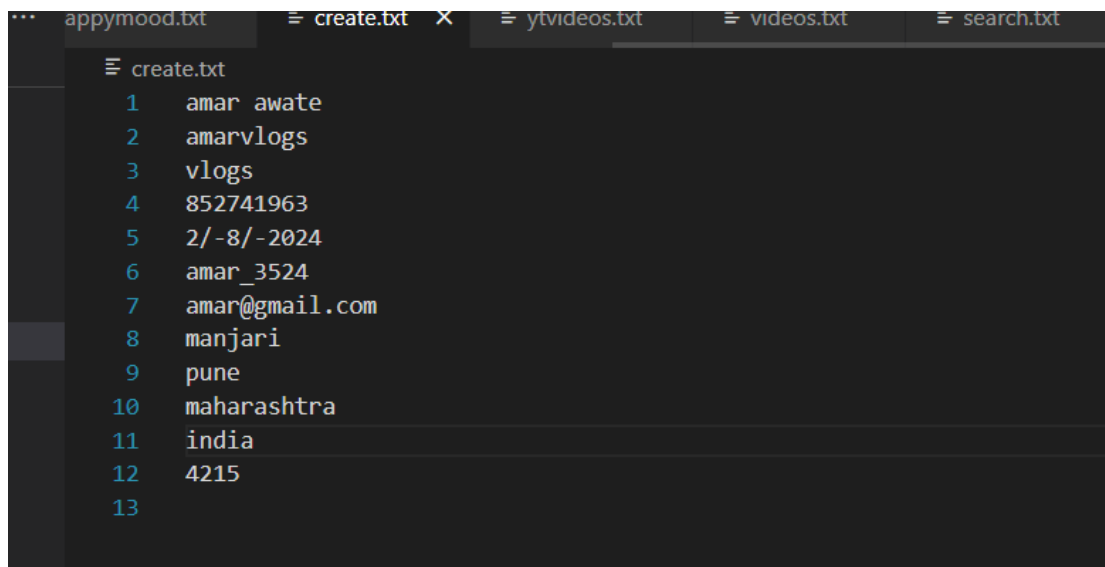
9. Exit

◆ Exits the program.
_____

```
********************Welcome To YouTube ******************************
Hello Guy's, What do you want to do?
1. Create New YouTube Channel
2. Watch YouTube videos
3. Search Something
4. Maximum Subscriber's YouTube channel Names
5. Maximum Likes YouTube videos
6. Compare Two Youtube Channels
7. YouTube some Records
8. Subscribe To Youtube Channels
9. Exit
```

1) Press 1 to create a new YouTube channel

This data will be stored in the create.txt file

2) If I click on the 2nd menu option to watch YouTube videos, it should display like this

```
********************Welcome To YouTube ********************************
Hello Guy's, What do you want to do?
1. Create New YouTube Channel
2. Watch YouTube videos
3. Search Something
4. Maximum Subscriber's YouTube channel Names
5. Maximum Likes YouTube videos
6. Compare Two Youtube Channels
7. YouTube some Records
8. Subscribe To Youtube Channels
9. Exit
Enter your choice: 2
----> a. Watch long videos
----> b. Watch Shorts
----> c. My mood is
----> e. Exit
What do you want to watch: a
--------> p. music & entertainment
--------> q. cartoon
--------> r. Cricket
--------> g. Gaming Videos
Enter your choice : p
Music & Entertaiment
--------------------------------------------------

Alone x Faded (Slowed+Reverb+Mashup) | Chill Music
https://youtu.be/nXfy8G3JYdM?si=ed1e_Werh2I3SaNr

Sare Tare Tod Le Ava [ Slowed And Reverb ] | Imran Khan | Aaja We Mahiya | Total Lofi Song Channel
https://youtu.be/ZeADoyL6KCM?si=OKpGymyyW5kFtcZP


Rani Nighta Shur - Video Song | Pawankhind | Marathi Song 2022 | Chinmay Mandlekar |Digpal Lanjekar
https://youtu.be/aj6kuXMo0tY?si=TQE5IpJXxruDZaZy----> a. Watch long videos
----> b. Watch Shorts
----> c. My mood is
```

This data is already stored in the ytmusic.txt file. In the console, when I click on Music & Entertainment, it reads the data from the ytmusic.txt file.


```
≡ ytmusic.txt
 1   Music & Entertaiment
 2   --------------------------------------------------
 3
 4   Alone x Faded (Slowed+Reverb+Mashup) | Chill Music
 5   https://youtu.be/nXfy8G3JYdM?si=ed1e_Werh2I3SaNr
 6
 7   Sare Tare Tod Le Ava [ Slowed And Reverb ] | Imran Khan | Aaja We Mahiya | Total Lofi Song Channel
 8   https://youtu.be/ZeADoyL6KCM?si=OKpGymyyW5kFtcZP
 9
10
11   Rani Nighta Shur - Video Song | Pawankhind | Marathi Song 2022 | Chinmay Mandlekar |Digpal Lanjekar
12   https://youtu.be/aj6kuXMo0tY?si=TQE5IpJXxruDZaZy
```
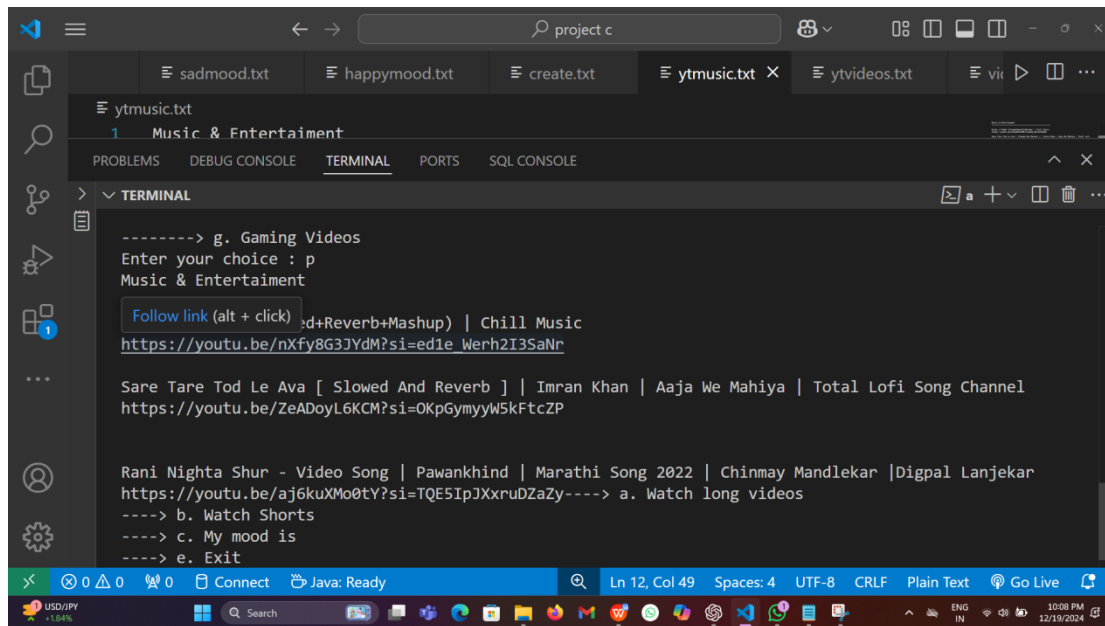
When I try to click or move the cursor over a YouTube URL, the 'Follow Link' option appears.
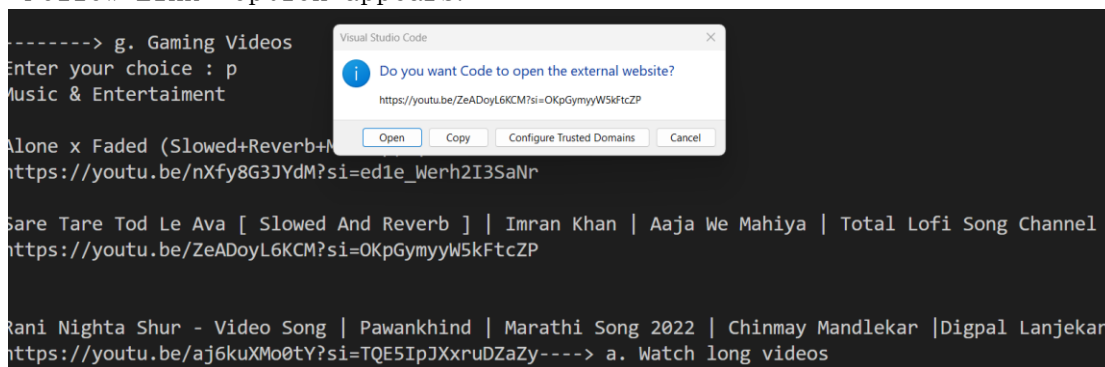
When I click on 'Open,' it directly plays the video on YouTube.

3) When I try to search for something, if the content is found in the search.txt file, it will display 'Search found'; otherwise, it will display 'Not found'

```
*********************Welcome To YouTube *****************************
Hello Guy's, What do you want to do?
1. Create New YouTube Channel
2. Watch YouTube videos
3. Search Something
4. Maximum Subscriber's YouTube channel Names
5. Maximum Likes YouTube videos
6. Compare Two Youtube Channels
7. YouTube some Records
8. Subscribe To Youtube Channels
9. Exit
Enter your choice: 3
What are you looking for: tmkoc
Found: tmkoc
```
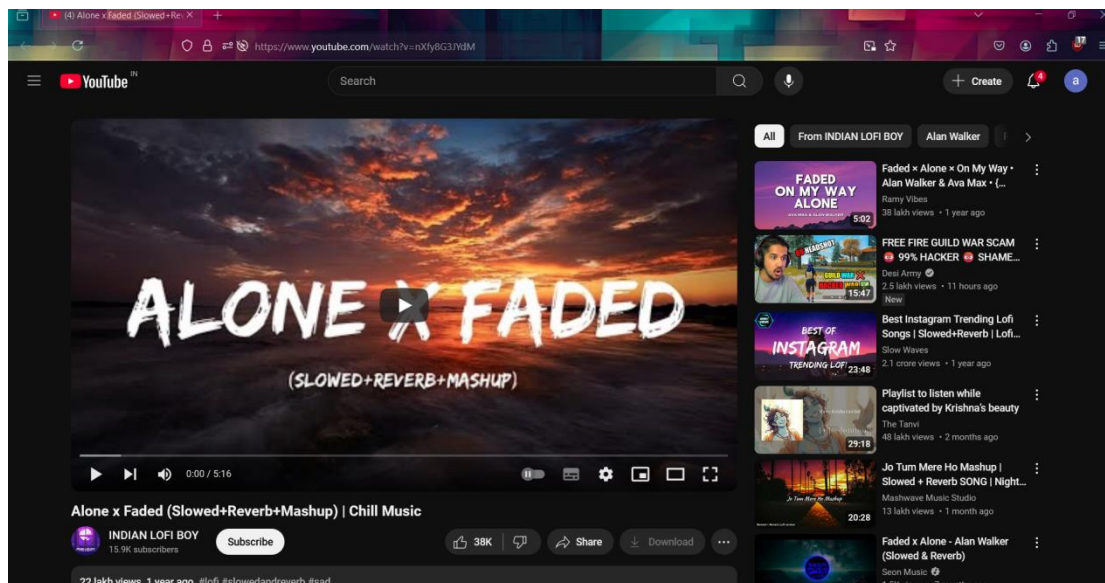
```
*********************Welcome To YouTube ****************************
Hello Guy's, What do you want to do?
1. Create New YouTube Channel
2. Watch YouTube videos
3. Search Something
4. Maximum Subscriber's YouTube channel Names
5. Maximum Likes YouTube videos
6. Compare Two Youtube Channels
7. YouTube some Records
8. Subscribe To Youtube Channels
9. Exit
Enter your choice: tmkco
What are you looking for: 3
'3
' not found in the file.
```

4) I am just reading the content of the maxsub.txt subscribers list and printing it on the console.

```
*********************Welcome To YouTube ********************************
Hello Guy's, What do you want to do?
1. Create New YouTube Channel
2. Watch YouTube videos
3. Search Something
4. Maximum Subscriber's YouTube channel Names
5. Maximum Likes YouTube videos
6. Compare Two Youtube Channels
7. YouTube some Records
8. Subscribe To Youtube Channels
9. Exit
Enter your choice: 4
Maximum Subscriber's Youtue Channels


1. MrBeast -> 309 milion
2. T- Series -> 271 milion
3. Co-co melon -> 180 milion
4. Sony Entertainment  -> 176 milion
5. kids diana show  -> 124 milion
```

I am reading the content from the ytrecords.txt file and printing it on the console.

```
************************Welcome To YouTube *********************************
Hello Guy's, What do you want to do?
1. Create New YouTube Channel
2. Watch YouTube videos
3. Search Something
4. Maximum Subscriber's YouTube channel Names
5. Maximum Likes YouTube videos
6. Compare Two Youtube Channels
7. YouTube some Records
8. Subscribe To Youtube Channels
9. Exit
Enter your choice: 7
Youtube Popular RECORDS

1. Fastest Hit 10 lakh Subscribers = 90 mins
2. Fastest Hit 32 milion Subscribers = 24 hours
3. Got all Play Button in 1 day That's Youtube channel name "Ur Christiano";
```
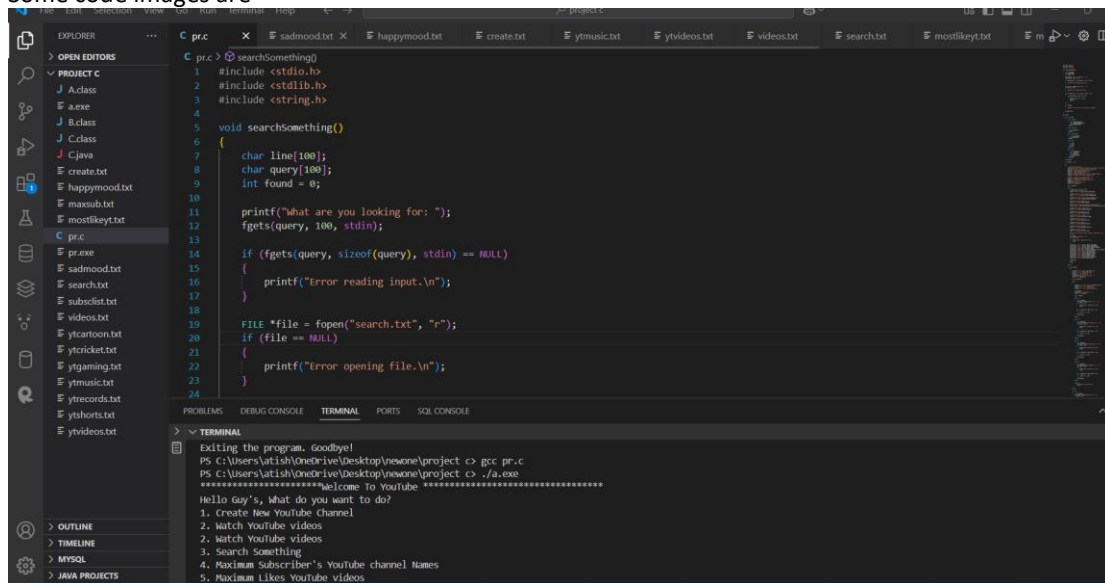
I am performing operations like subscribing to a channel, and the currently subscribed channels are stored into the subsclist.txt file.

```
************************Welcome To YouTube *********************************
Hello Guy's, What do you want to do?
1. Create New YouTube Channel
2. Watch YouTube videos
3. Search Something
4. Maximum Subscriber's YouTube channel Names
5. Maximum Likes YouTube videos
6. Compare Two Youtube Channels
7. YouTube some Records
8. Subscribe To Youtube Channels
9. Exit
Enter your choice: 8
YouTube channel list:
mrbeast
totalgaming
manojsaru
codewithharry
godmines
tv9marathi
carryminati
icc
telusco
tseries
Enter a YouTube channel to subscribe:
icc
You are subscribing to channel: icc
```

subsclist.txt

```
1    telusco
2    icc
3
```

Some code images are

```c
#include <stdio.h>
#include <stdlib.h>
#include <string.h>

void searchSomething()
{
    char line[100];
    char query[100];
    int found = 0;

    printf("What are you looking for: ");
    fgets(query, 100, stdin);

    if (fgets(query, sizeof(query), stdin) == NULL)
    {
        printf("Error reading input.\n");
    }

    FILE *file = fopen("search.txt", "r");
    if (file == NULL)
    {
        printf("Error opening file.\n");
    }
```

Terminal:
```
Exiting the program. Goodbye!
PS C:\Users\atish\OneDrive\Desktop\newone\project c> gcc pr.c
PS C:\Users\atish\OneDrive\Desktop\newone\project c> ./a.exe
**********************Welcome To YouTube *********************************
Hello Guy's, What do you want to do?
1. Create New YouTube Channel
2. Watch YouTube videos
2. Watch YouTube videos
3. Search Something
4. Maximum Subscriber's YouTube channel Names
5. Maximum Likes YouTube videos
```

```c
int main()
{
    struct Youtube
    {
        struct channel
        {
            char channelname[50];
            char channelcategory[30];
            char ownername[50];
        } chinfo;

        struct useradhar
        {
            char adhar[13];
        } adinfo;

        struct socialmedia
        {
            char instaid[30];
            char gmail[50];
        } cminfo;
```