

**D-NETFLIX**

**CSE2003- DSA PROJECT REPORT**

**(J Component)**

**submitted by**

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*in partial fulfillment for the award of the degree of*

**B. Tech**

**in**

**SCOPE**



**VIT<sup>®</sup>**  

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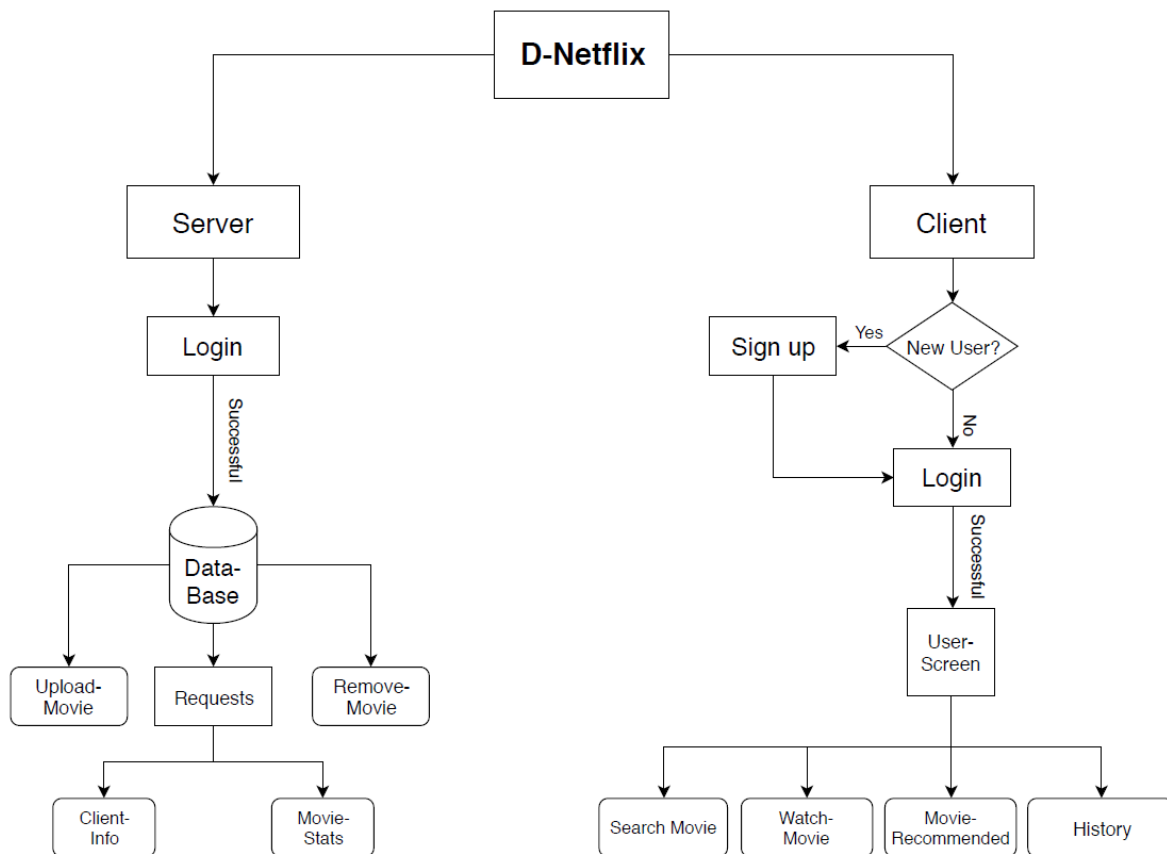
**School of Computer Science and Engineering**

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## Abstract:

*The project titled "D-Netflix" is a GUI (CLI gives more features) application for monitoring and watching movies. The project "D-Netflix" is developed in Python, which mainly focuses on basic operations it's Database like uploading, removing movies & getting user-info from Server whereas operations like searching, watching a movie for client. The On-Time record facility of "D-Netflix" ease the task of handling and keeping the records of multiple users.*

## SYSTEM ARCHITECTURE



(FOR CLI)

## MODULE DESCRIPTION

### ◆ *Server: Secure Login*

- UPLOAD
- REMOVE
- REQUESTS
  - Client Info
  - Movie Stats

### ◆ *Client:*

- *WATCH*
- *STATS*
  - Available films
  - Watch frequency
  - Thorough description
- *HISTORY*

## RESULTS AND DISCUSSION:

### Application of stack ->

- *Usage History*: When a movie is watched then its history is created which is “push” of that particular title and when a history of a client is asked then a “pop” is made from history, therefore it follows “first in last out” order.

### Application of queue ->

- *Uploading movie*: When a movie is uploaded by server then it behaves in an “enqueue” manner of queue, where every movie is placed at the top of enqueued one after another. Queue is our database.
- *Available movie*: When the available movies option is used then a “dequeue” is made from database.

## CLI Screenshots:

```
d_netflix - Shortcut
Hi! This is D-Netflix, A simple application based on Stack and queue.
New user may refer to User_guide firstly.

Are you a Client or Server?
Press 'C' or 'c' for client and hit enter.
Press 'S' or 's' for server and hit enter.
_
```

```
d_netflix - Shortcut
Are you a Client or Server?
Press 'C' or 'c' for client and hit enter.
Press 'S' or 's' for server and hit enter.
s

Give server id: dsap
Give server pass: 92det
Database access granted.

Key:      Operation:
1         To upload a movie.
2         To remove a movie.
3         To make special requests.
4         To exit the server.
5         To exit D-Netflix.

Enter your choice: 3

To get client info--> press 'CI' or 'ci' and hit enter.
To get Movie stats--> press 'MS' or 'ms' and hit enter.
ci

Client id: aryan          Client Password: 1234          DateTime: Tue Mar 26 16:04:14 2019

Total 2 films have been watched so far.

aryan favourite films:
alita battle angel
scan
```

d\_netflix - Shortcut

Enter your choice again: 4

Closing database  
Exiting server.

Are you a Client or Server?  
Press 'C' or 'c' for client and hit enter.  
Press 'S' or 's' for server and hit enter.  
c

New users press 'yes' or 'YES' or '1'  
Existed users may press Enter.

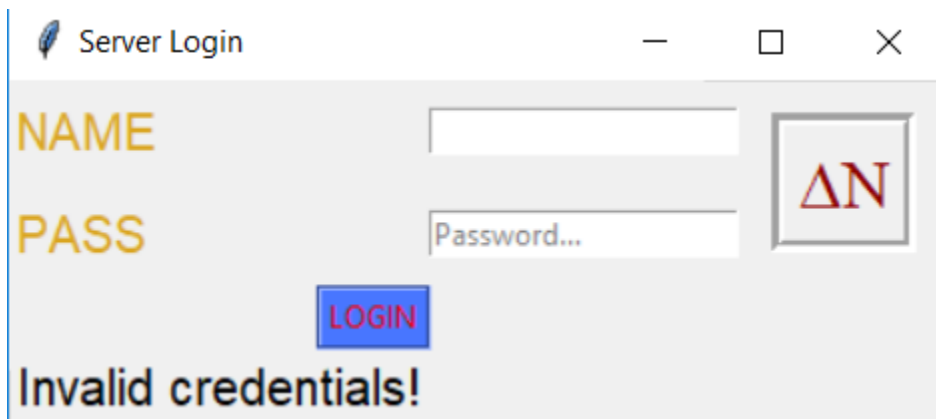
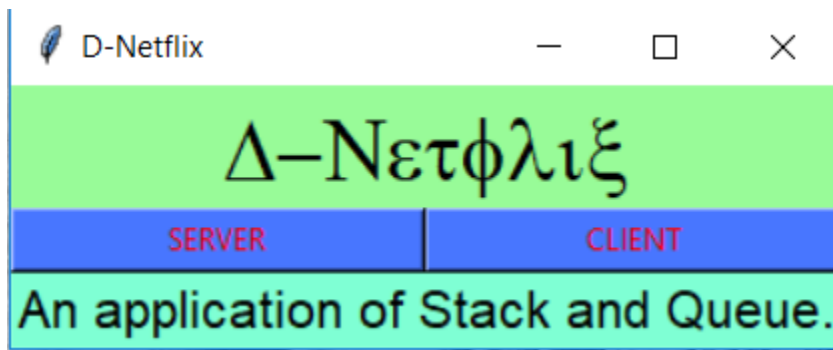
Give your id: kush  
Give your pass: 123  
Welcome kush.

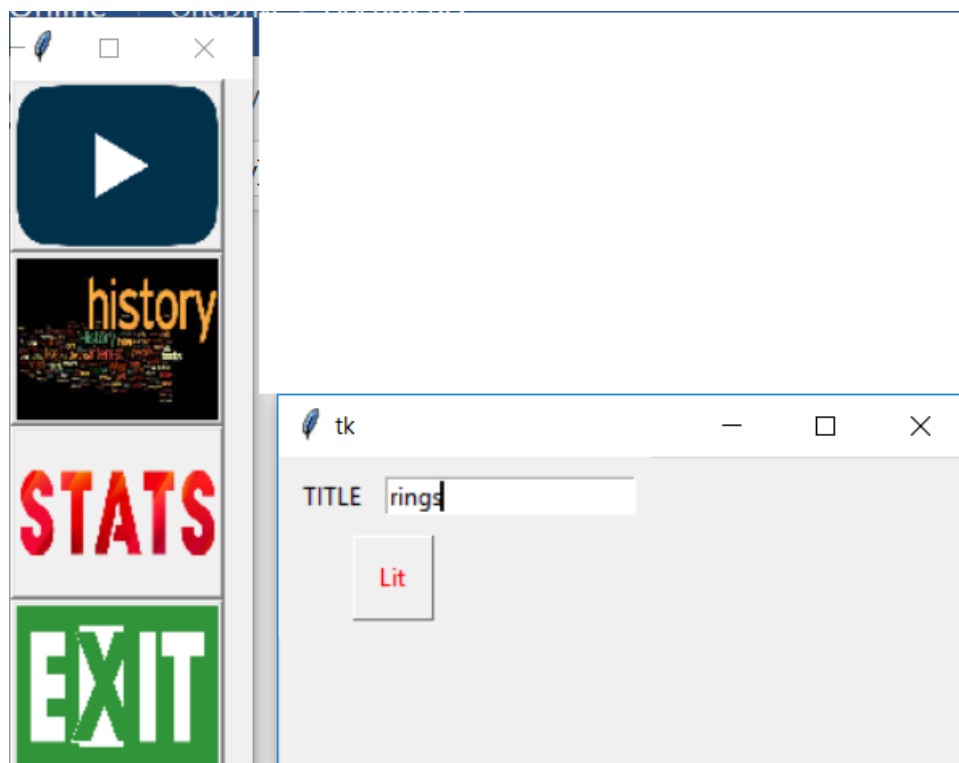
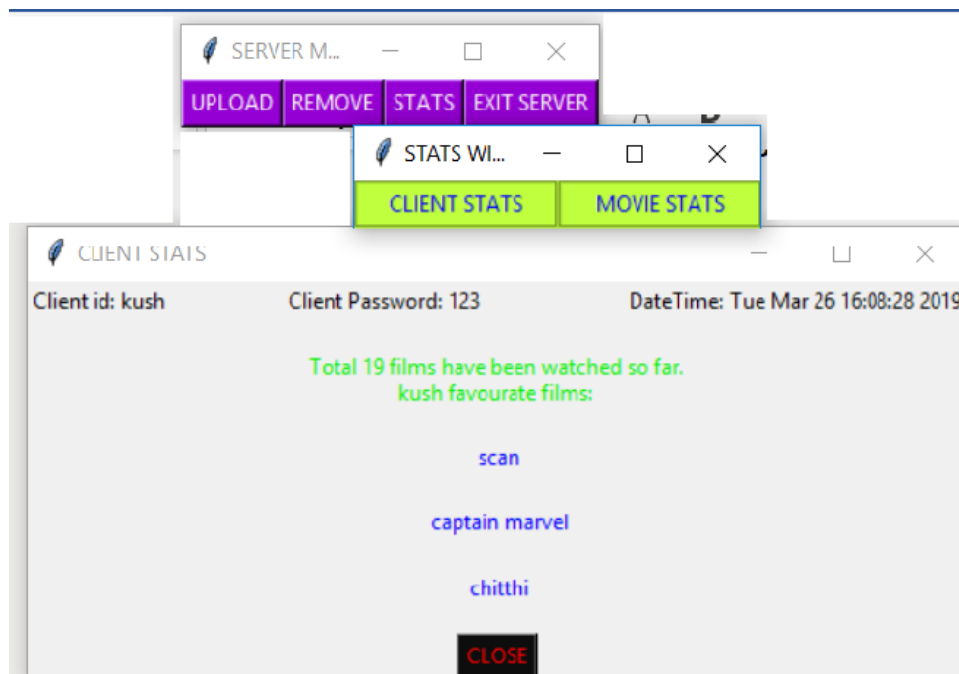
Key:	Operation:
1	To Watch a film.
2	To See film stats.
3	Recommend a film.
4	To view your watch history
5	To exit the client.
6	To exit D-Netflix.

Enter your choice: 4

DateTime	Film:::
Sun Mar 17 21:56:36 2019	captain marvel

## GUI Screenshots:







**Conclusion:**

Making this project gave me an view about how data structures are actually used in applications like this, This was an simple project and made use of data structures like 'Struct' and 'Queue' in it's working. I will conclude this by saying that doing this project was fun and educating, I even learnt the 'tkinter' during this project.

I will also like to *thanks* my sir "**Murali S**" for motivating me to do this project using data structures we learnt till then in class. And also to mention that idea for this project came from '*Library management*' project explained by sir in class.

## References:

- *<https://stackoverflow.com>*
- *class SJT-302*