

CS301-Online Voting system

Final Report

Group 31 Members

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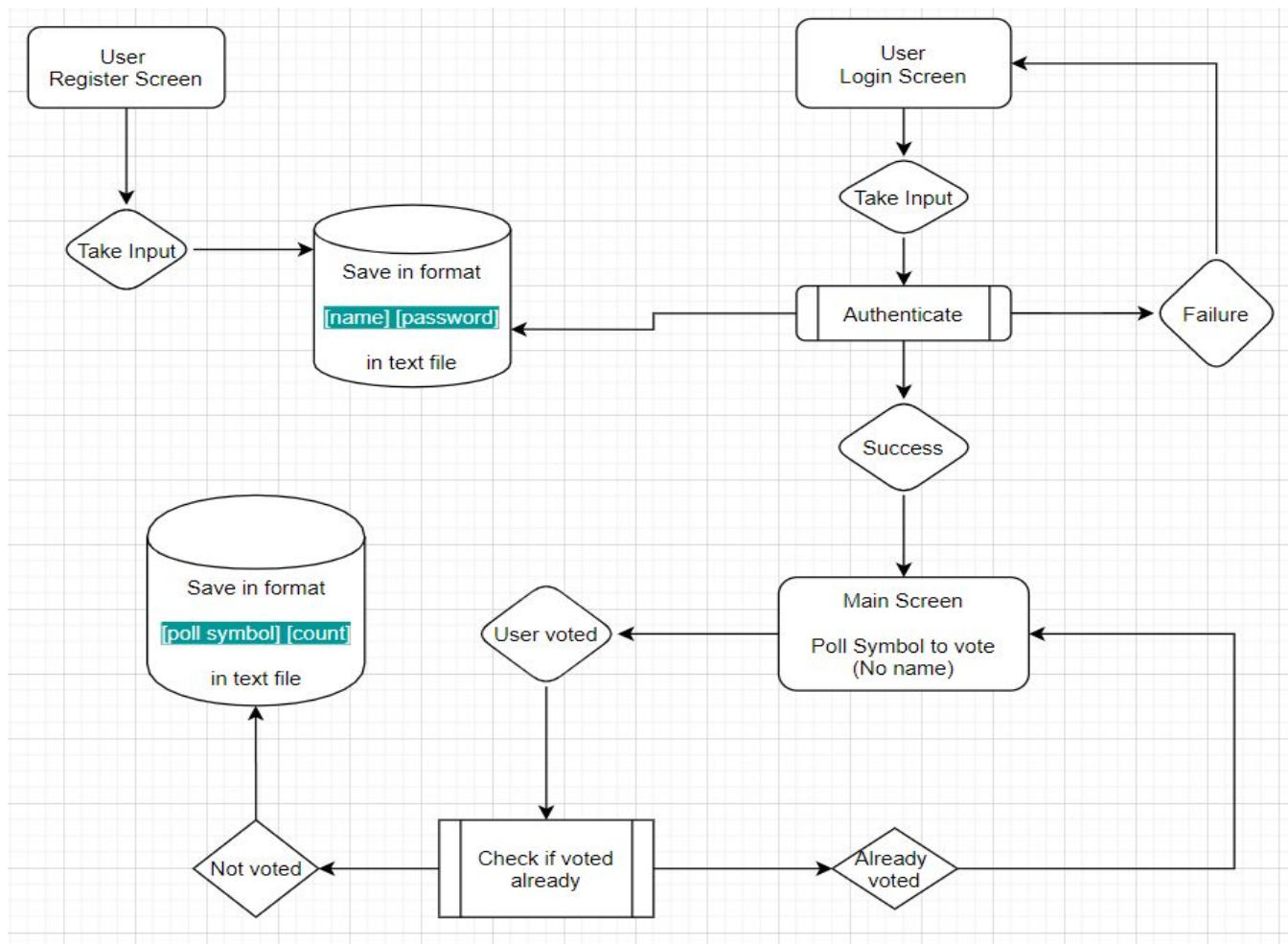
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Project Idea/Analysis

Creating a secure multithreaded voting application using socket programming at port number '12345' and the file system. Handling threads concurrently to avoid situations of deadlock between threads on the server so as to allow multiple clients to vote simultaneously.

Design(Flow chart for the implemented project)



Requirements:

1. Download Python -3.5+ (interpreter Cpython)
2. Ensure that port number '12345' is free to run

Steps to execute the complete project

Step 1 - pip install PyInquirer

Step 2 - python server.py

Step 3 - python client.py

Outputs for code

Here we can log in with the name- "ale" and password- "bob"

```

ASUS@LAPTOP-S576VL36 MINGW64 /d/python/voting_machine (main)
$ python server.py

Socket
successfully created
socket binded to 12345
socket is listening
Done
b'2'
False
Done
b'1'
False
Done
b'1'
False
b'2'
b'2'
True
[]

ASUS@LAPTOP-S576VL36 MINGW64 /d/python/voting_machine (main)
$ python client.py

hello User plz enter credential
? What's your first name souha
rd
? Password swami
Login===== /. 100%
? Select toppings [Show Result]
1
['Show Result']
2
===== /. 100%
Vote of Candidate-1 5
Vote of Candidate-2 4

ASUS@LAPTOP-S576VL36 MINGW64 /d/python/voting_machine (main)
$ python client.py

hello User plz enter credential
? What's your first name aman
rd
? Password raj
Login===== /. 100%
? Select toppings [To Vote]
['To Vote']
1
? Select toppings [Candidate-2]
['Candidate-2']
===== /. 100%
You have already voted

ASUS@LAPTOP-S576VL36 MINGW64 /d/python/voting_machine (main)
$

ASUS@LAPTOP-S576VL36 MINGW64 /d/python/voting_machine (main)
$ python client.py

hello User plz enter credential
1
? What's your first name nav
en
? Password kumar
Login===== /. 100%
? Select toppings [Show Result]
['Show Result']
2
===== /. 100%
Vote of Candidate-1 5
Vote of Candidate-2 4

ASUS@LAPTOP-S576VL36 MINGW64 /d/python/voting_machine (main)
$ python client.py

hello User plz enter credential
? What's your first name wr
ng
? Password wrong
Try again
? What's your first name []

```