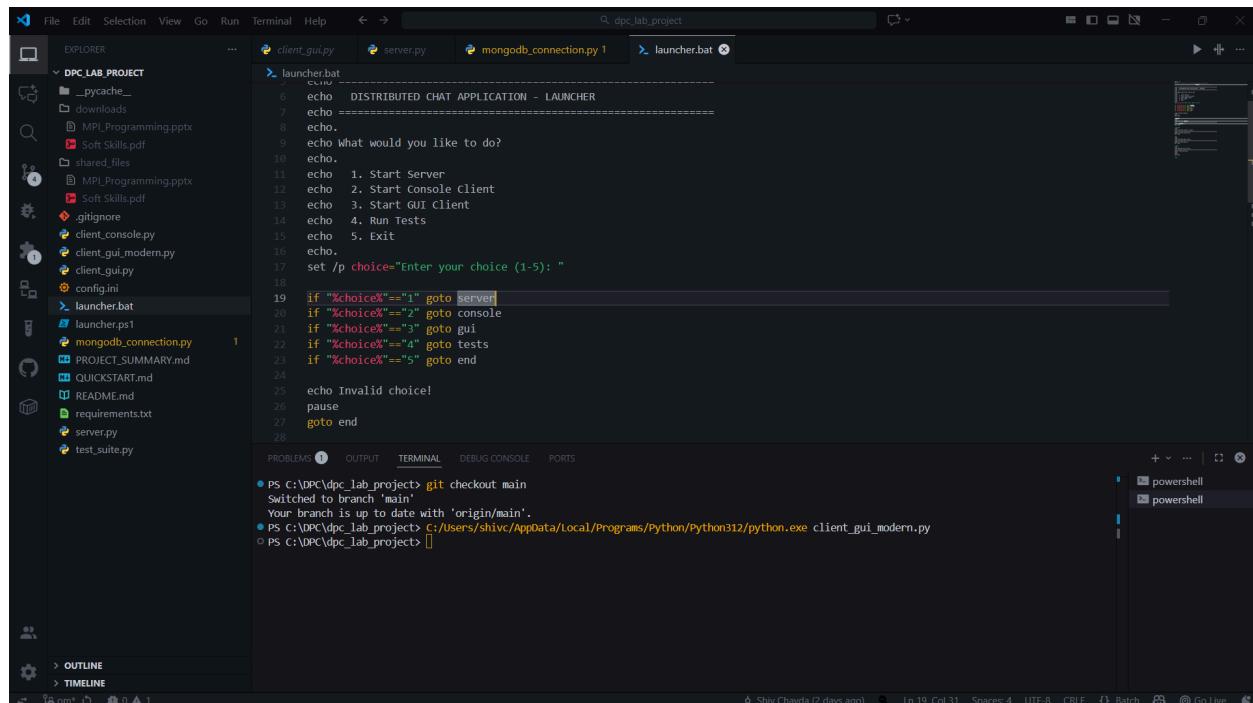


# CS 401

## DPC Project

**Shiv Chavda  
Om Vasani  
Ameya Naik**



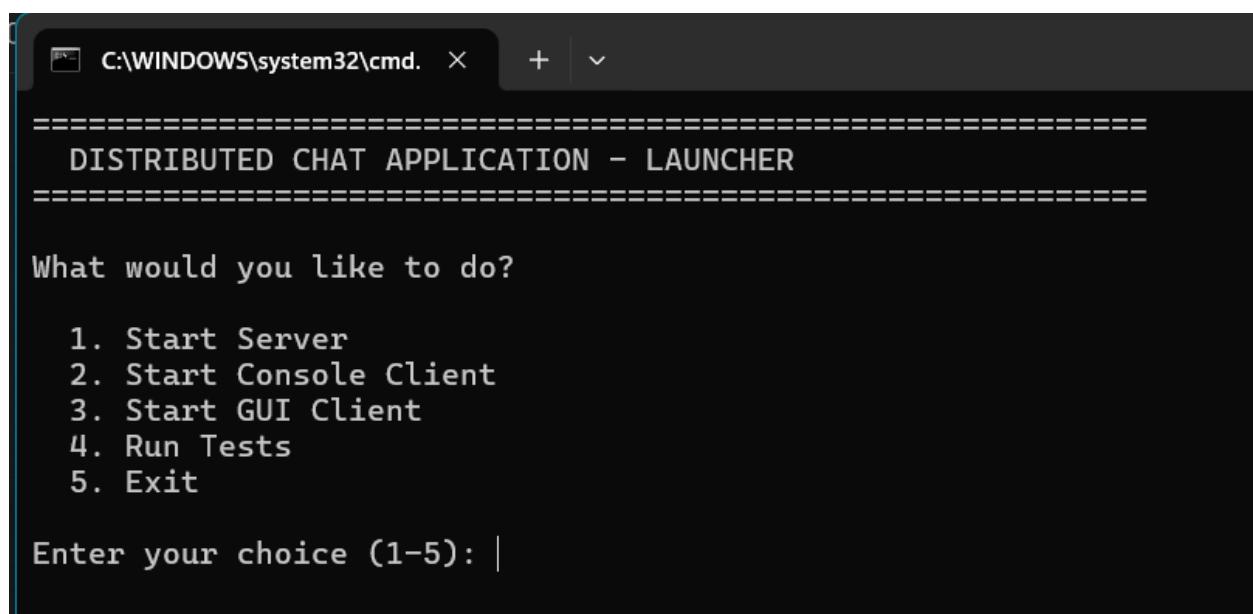
A screenshot of the Visual Studio Code interface. The left sidebar shows a file tree for a project named "DPC LAB PROJECT". The main editor area displays the contents of "launcher.bat". The terminal at the bottom shows a git status and some command-line history.

```
> launcher.bat
echo DISTRIBUTED CHAT APPLICATION - LAUNCHER
=====
6 echo =====
7 echo =====
8 echo =====
9 echo What would you like to do?
10 echo =====
11 echo 1. Start Server
12 echo 2. Start Console Client
13 echo 3. Start GUI Client
14 echo 4. Run Tests
15 echo 5. Exit
16 echo =====
17 set /p choice="Enter your choice (1-5): "
18
19 if "%choice%"=="1" goto server
20 if "%choice%"=="2" goto console
21 if "%choice%"=="3" goto gui
22 if "%choice%"=="4" goto tests
23 if "%choice%"=="5" goto end
24
25 echo Invalid choice!
26 pause
27 goto end
28
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE PORTS

```
PS C:\DPC\dpc_lab_project> git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
PS C:\DPC\dpc_lab_project> C:/Users/shiv/AppData/Local/Programs/Python/Python312/python.exe client_gui_modern.py
PS C:\DPC\dpc_lab_project> [REDACTED]
```

Shiv Chavda (2 days ago) Lin 19, Col 31 Spaces: 4 UTF-8 Batch Go Live



A screenshot of a Windows Command Prompt window titled "C:\WINDOWS\system32\cmd.". The window displays the output of the "launcher.bat" script. It shows the launcher's menu and a prompt for the user to enter their choice.

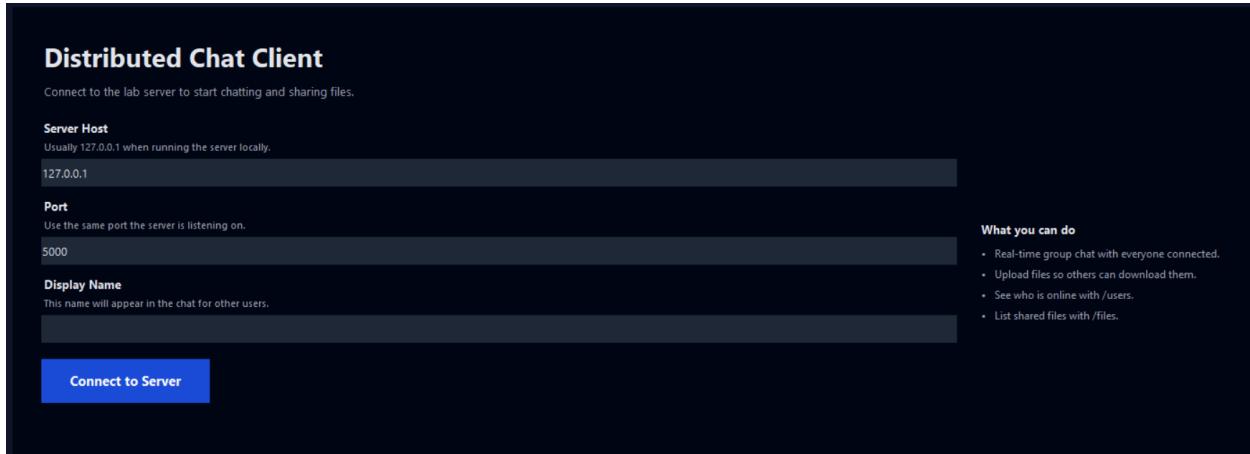
```
=====
DISTRIBUTED CHAT APPLICATION - LAUNCHER
=====

What would you like to do?

1. Start Server
2. Start Console Client
3. Start GUI Client
4. Run Tests
5. Exit

Enter your choice (1-5): |
```

```
File: Strivers D:\777\DS\CS\Lab\Strivers A\777\DNA\Sh  
File: Strivers D:\777\DS\CS\Lab\Strivers A\777\DNA\Sh  
C:\WINDOWS\system32\cmd. X + | X  
=====  
DISTRIBUTED CHAT APPLICATION - LAUNCHER  
=====  
What would you like to do?  
1. Start Server  
2. Start Console Client  
3. Start GUI Client  
4. Run Tests  
5. Exit  
Enter your choice (1-5): 1  
Starting server...  
=====  
DISTRIBUTED CHAT SERVER WITH FILE SHARING  
=====  
Host: 0.0.0.0  
Port: 5000  
File Storage: C:\DPC\dpc_lab_project\shared_files  
=====  
[SERVER] Listening on 0.0.0.0:5000  
[SERVER] Waiting for connections...  
|
```



shiv Connected to Distributed Chat Server

Enter your name: \* shiv joined the chat \*

Welcome to the Distributed Chat, shiv!

Commands:

/exit	- Exit the chat
/users	- List online users
/files	- List shared files
/upload	- Upload a file
/download	- Download a file
/help	- Show this help message

Type your message to chat with everyone!

[16:34:03] shiv: Heyyy

\* Om joined the chat \*

[16:34:43] Om: hii

[16:34:46] shiv: I am shiv

[16:34:51] shiv: test test test

[16:34:57] Om: test done

[UPLOAD] Uploading Soft Skills.pdf (1455046 bytes)...

[SUCCESS] File 'Soft Skills.pdf' uploaded successfully!

[FILES] Available files: 1. Soft Skills.pdf (1455046 bytes) - uploaded by shiv at 2025-11-15 16:35:07

[FILES] Available files: 1. Soft Skills.pdf (1455046 bytes) - uploaded by shiv at 2025-11-15 16:35:07

ERROR|File not found

[FILES] Available files: 1. Soft Skills.pdf (1455046 bytes) - uploaded by shiv at 2025-11-15 16:35:07

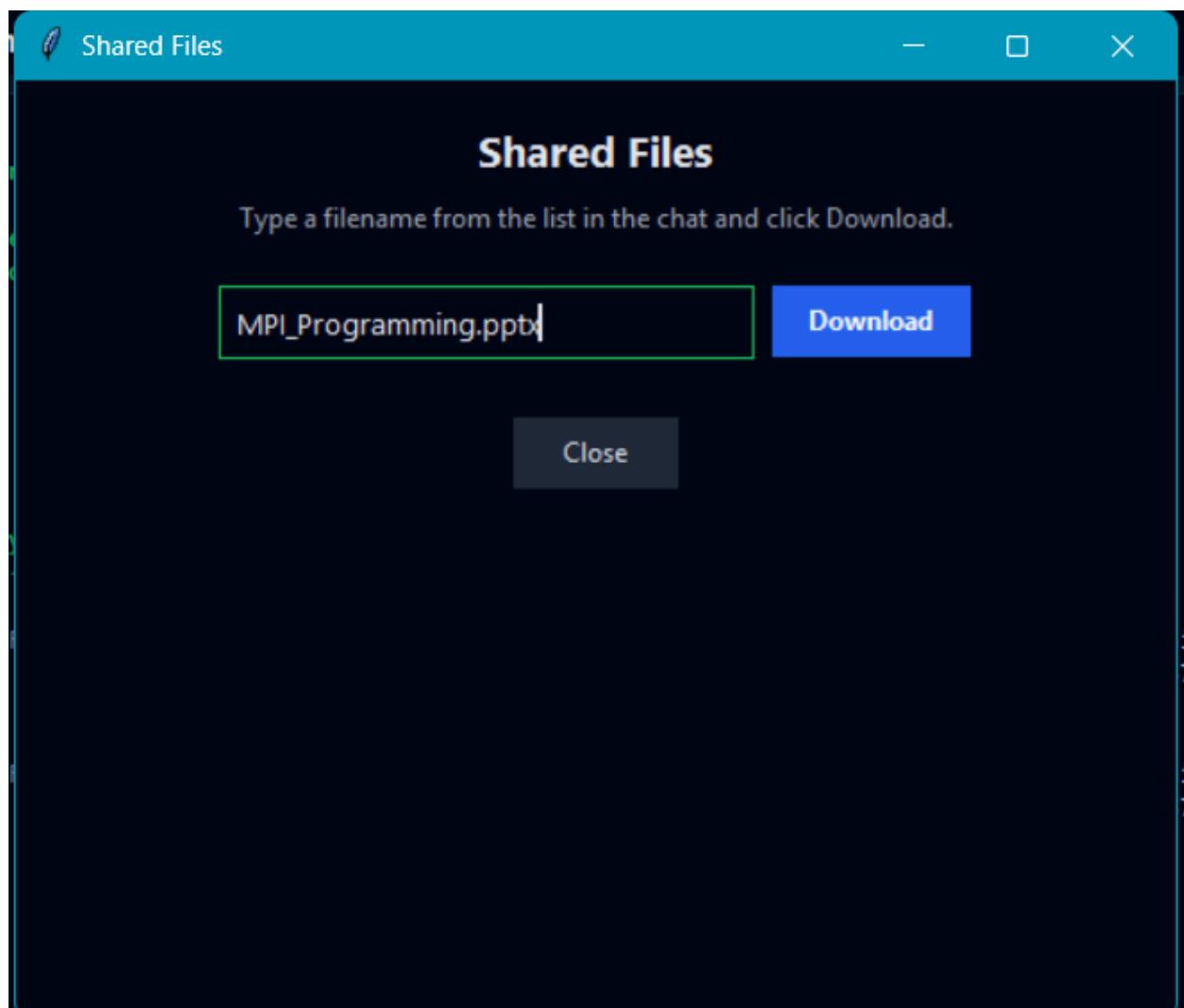
[DOWNLOAD] Requesting Soft Skills.pdf...

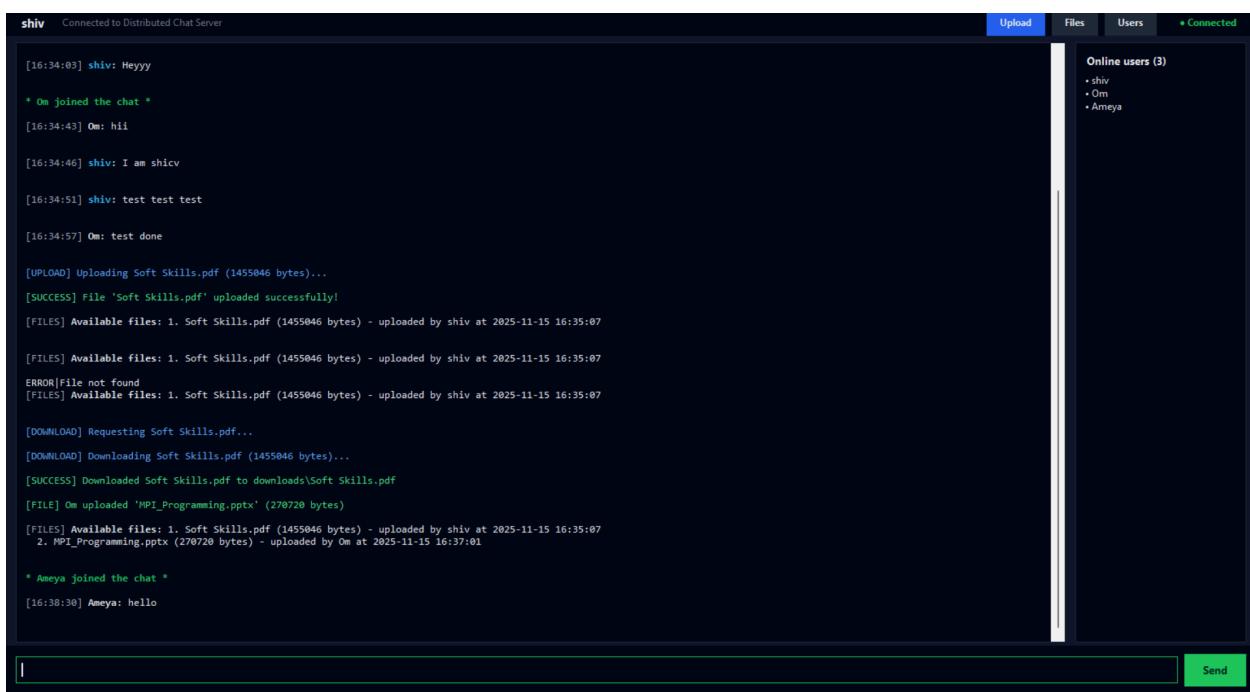
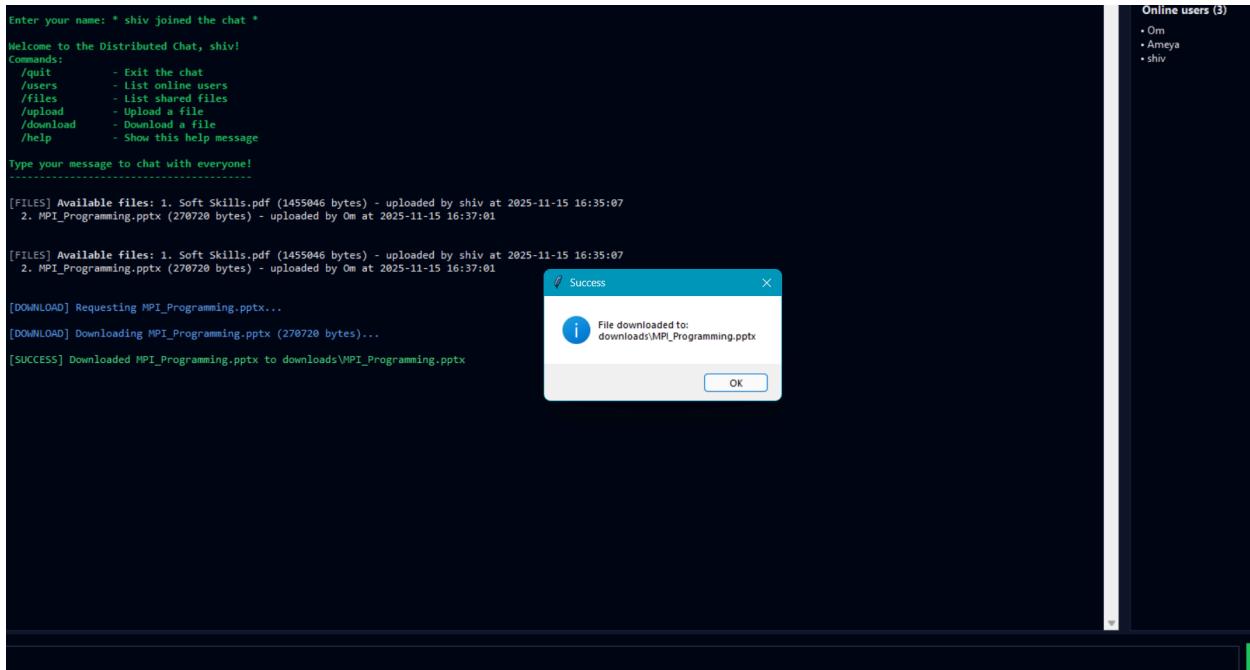
Download (1455046 bytes) / (1455046 bytes)

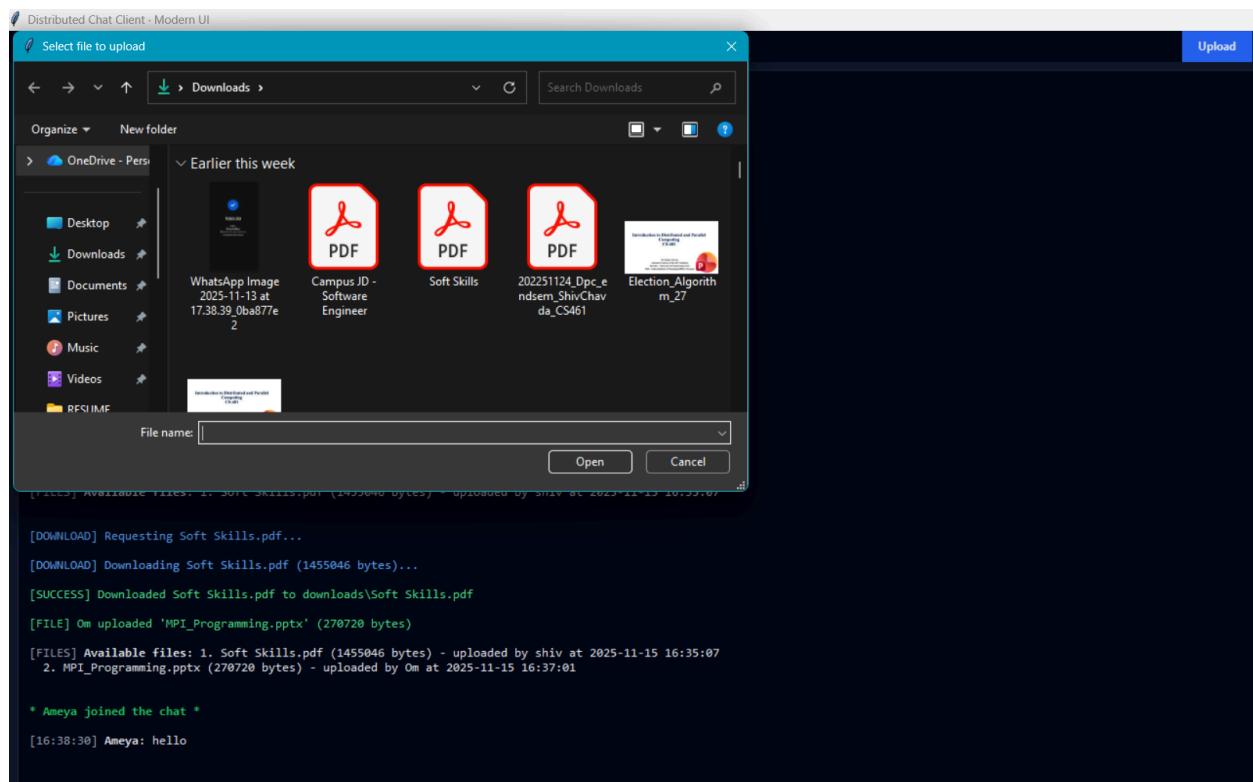
| Send

Online users (3)

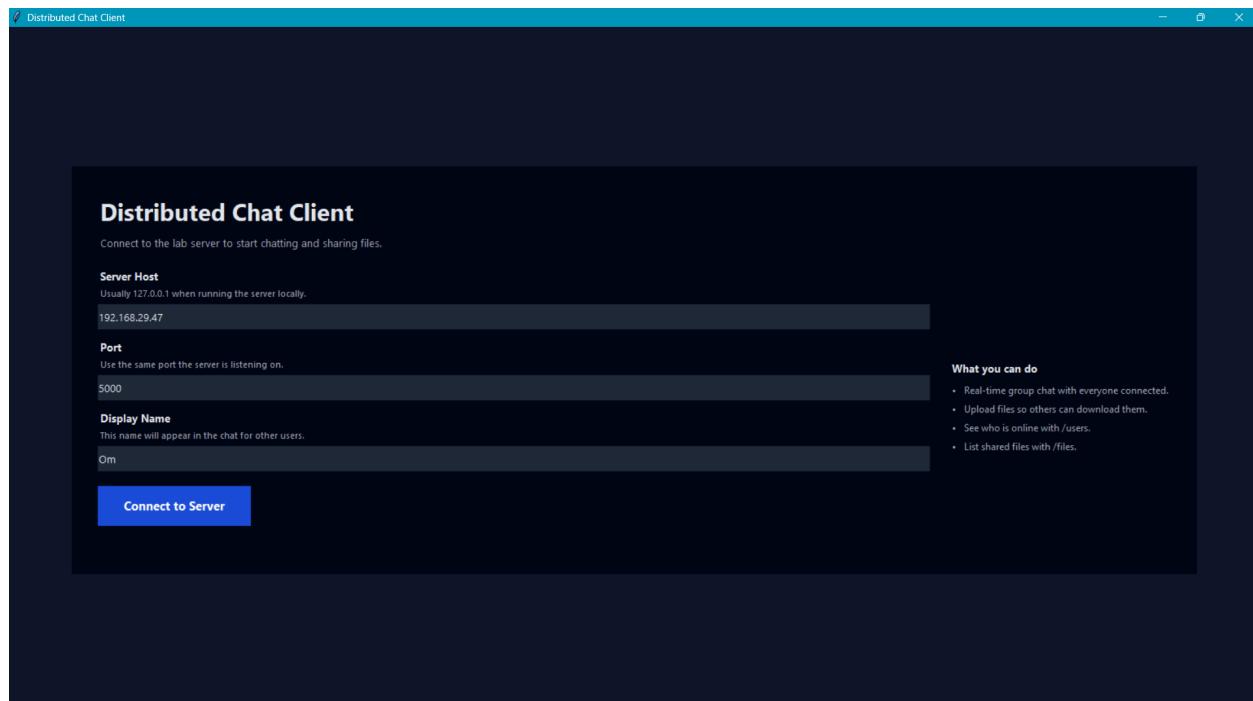
- shiv
- Om
- Ameya

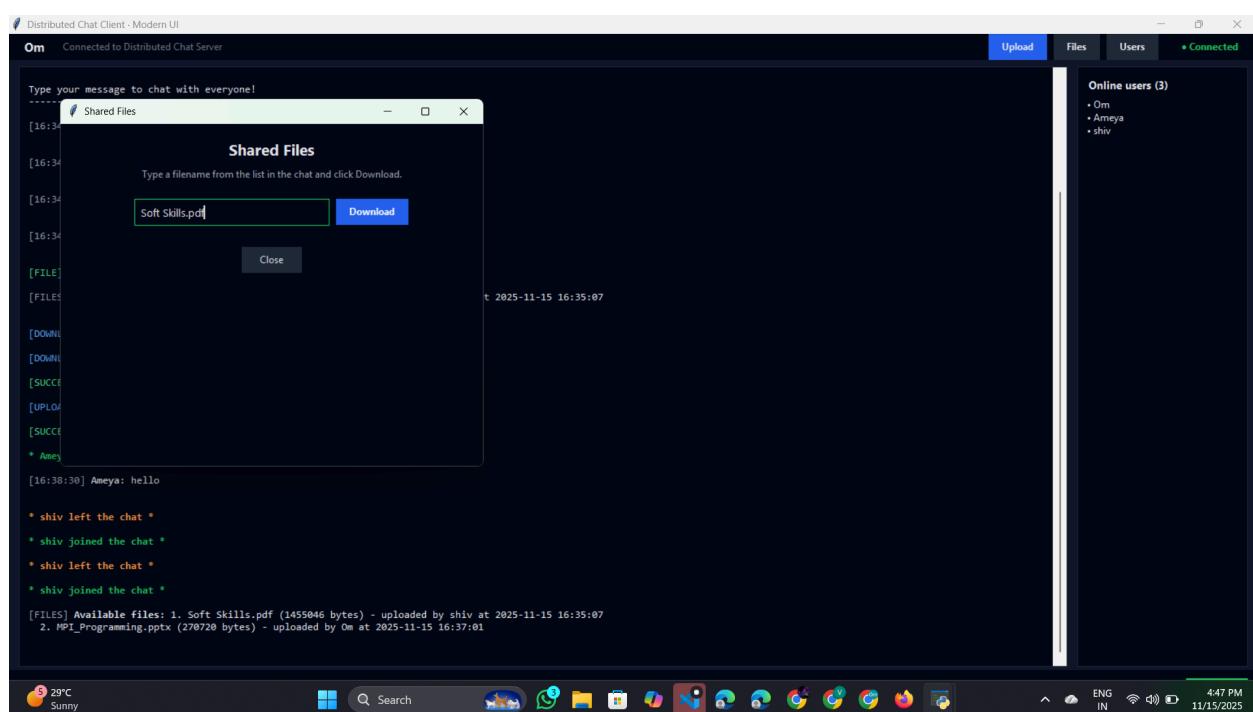
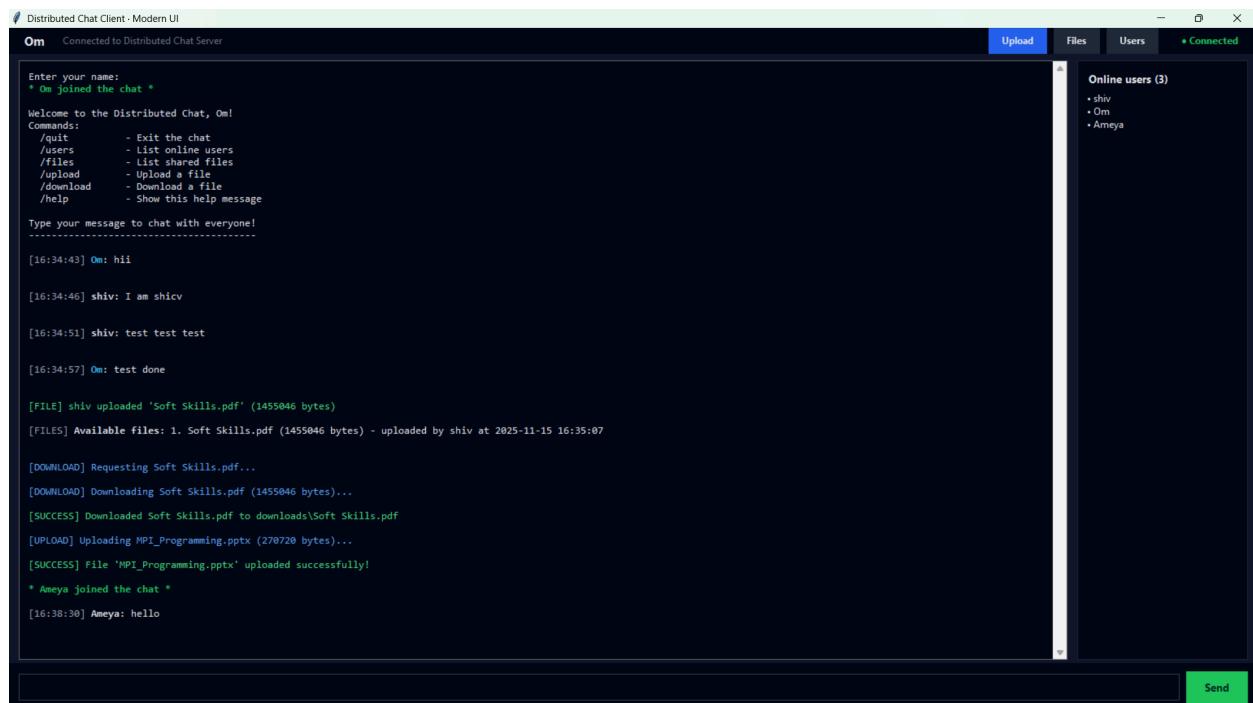


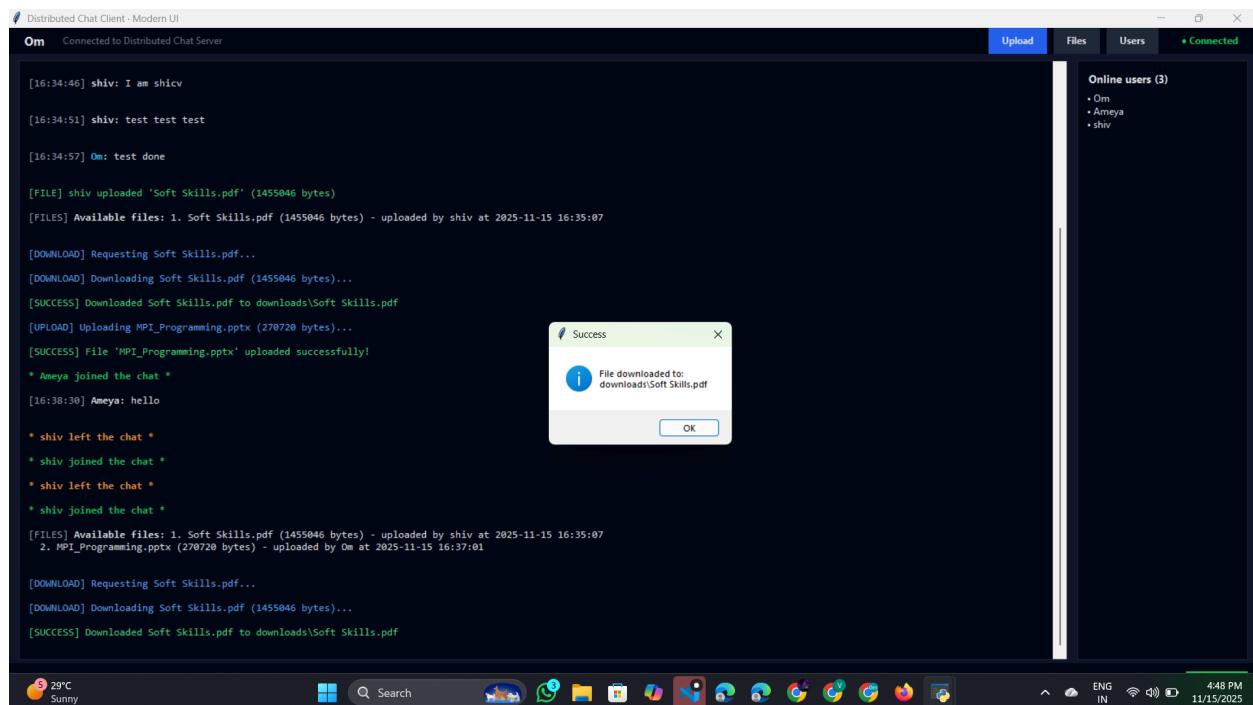




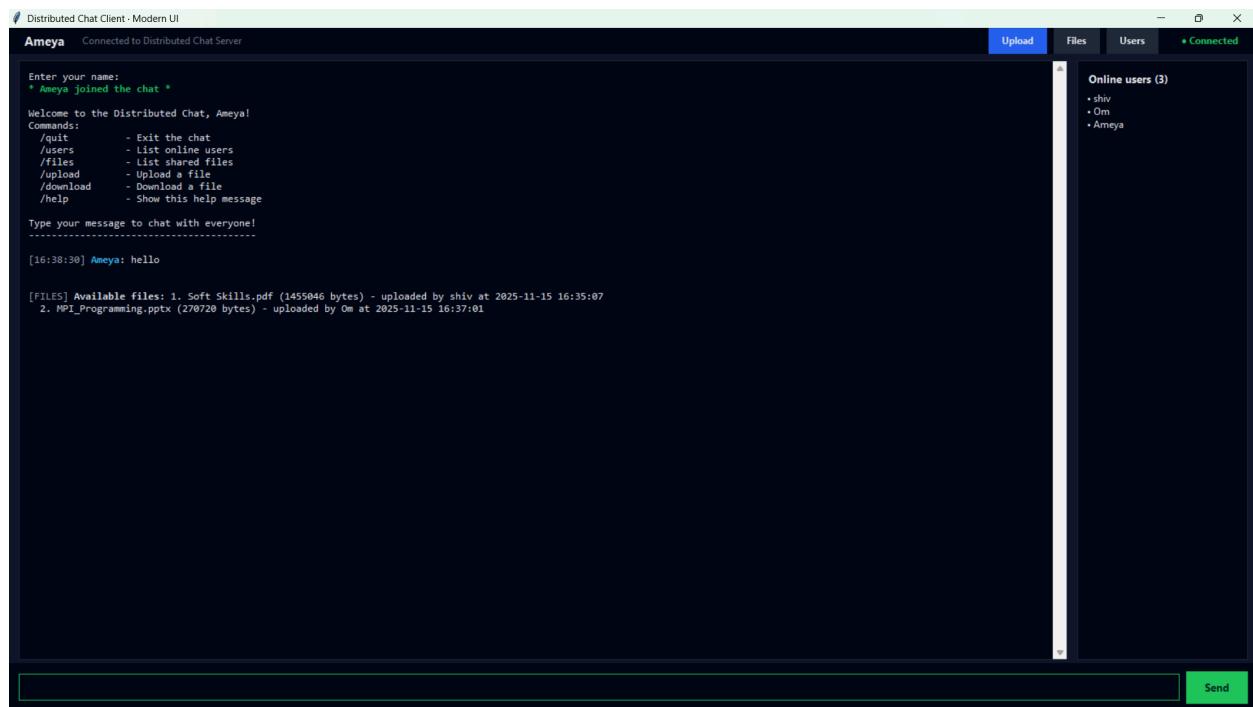
## Om's client







## Ameya's client



## SERVER:-

```
C:\WINDOWS\system32\cmd. + ▾ - □ ×
Enter your choice (1-5): 1
Starting server...
=====
DISTRIBUTED CHAT SERVER WITH FILE SHARING
=====
Host: 0.0.0.0
Port: 5000
File Storage: C:\DPC\dpc_lab_project\shared_files
=====

[SERVER] Listening on 0.0.0.0:5000
[SERVER] Waiting for connections...

[JOIN] shiv connected from ('127.0.0.1', 60219)
[LEAVE] shiv disconnected
[JOIN] shiv connected from ('127.0.0.1', 60223)
[CHAT] shiv: Heyyy
[JOIN] Om connected from ('192.168.29.28', 49297)
[CHAT] Om: hii
[CHAT] shiv: I am shivc
[CHAT] shiv: test test test
[CHAT] Om: test done
[FILE] Upload request from shiv
[FILE] Waiting for metadata from shiv...
[FILE] Received metadata: Soft Skills.pdf|1455046
[FILE] File: Soft Skills.pdf, Size: 1455046 bytes
[FILE] Sent READY acknowledgment to shiv
[FILE] Receiving Soft Skills.pdf (1455046 bytes) from shiv...
```

```
C:\WINDOWS\system32\cmd. + ▾ - □ ×
[FILE] Requested file: /users
[ERROR] File '/users' not in shared files list
[FILE] Download request from shiv
[FILE] Waiting for filename from shiv...
[FILE] Requested file: Soft Skills.pdf
[FILE] Sent file info: OK|1455046
[FILE] Waiting for READY acknowledgment from shiv...
[FILE] Sending Soft Skills.pdf (1455046 bytes) to shiv...
[FILE] Download progress: 1048576/1455046 bytes (72.1%)
[FILE] Download progress: 1455046/1455046 bytes (100.0%)
[FILE] ✓ Soft Skills.pdf sent successfully to shiv
[FILE] Download request from Om
[FILE] Waiting for filename from Om...
[FILE] Requested file: Soft Skills.pdf
[FILE] Sent file info: OK|1455046
[FILE] Waiting for READY acknowledgment from Om...
[FILE] Sending Soft Skills.pdf (1455046 bytes) to Om...
[FILE] Download progress: 1048576/1455046 bytes (72.1%)
[FILE] Download progress: 1455046/1455046 bytes (100.0%)
[FILE] ✓ Soft Skills.pdf sent successfully to Om
[FILE] Upload request from Om
[FILE] Waiting for metadata from Om...
[FILE] Received metadata: MPI_Programming.pptx|270720
[FILE] File: MPI_Programming.pptx, Size: 270720 bytes
[FILE] Sent READY acknowledgment to Om
[FILE] Receiving MPI_Programming.pptx (270720 bytes) from Om...
[FILE] Progress: 270720/270720 bytes (100.0%)
[FILE] ✓ MPI_Programming.pptx uploaded successfully by Om
[JOIN] Ameya connected from ('192.168.29.28', 50109)
[CHAT] Ameya: hello
```