



## **SOFE 4790U - Distributed Systems**

### **Final Project - Test Cases**

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## Introduction

The following report will cover the testing of our distributed final project - DropZone. This document will cover a wide variety of test cases that cover multiple functionalities within our application. Tests will be grouped into sections based on core functions such as the PTP chat and the file container.

Test Case	Description	Expected output	Figure
TC-1	Two clients connect to the server	The server sends a message in the terminal that a new client has connected	1, 2, 3
TC-2	The user wants to upload files to the server	The user clicks the upload button in dropbox home This opens a file directory of the users files From here user can choose which file they want to upload Terminal prints that a file has been uploaded The second client clicks the refresh button to see the new file that's been uploaded to the server	1, 4, 5, 2
TC-3	The user wants to download a file from DropZone home	The user clicks on either the name of a file or the download button beside the respective file name This will take the user to a file explorer from where he will decide where to download the file	2,4,6
TC-4	The user wants to search for a file name	A user opens dropzone home and wants to search for a specific file name He types the name of the file in the search bar and then if a file with the name has been uploaded to the server it will show below	7,8

TC-5	A User wants to filter by file type	The user opens DropZone Home Then they type the file type into the search bar (.jpg, .pdf, .py, .png, .txt, .zip, etc.) Only files of that type are now displayed below	7, 9
TC-6	A User clicks on refresh button to refresh check what files they can download from the file container	User clicks refresh button at the top right of the DropZone home app This then refreshes the list by checking to see if any new files have been uploaded to the server The files that have been uploaded before the refresh button was clicked will now display on the screen On Refresh, the files are displayed alphabetically	7, 10
TC-7	User wants to go to the person to person page to create a lobby	User clicks on Person to Person link at the top left of the screen (PTP) this redirects the user to another page where they are able to create lobbies for another user to join After clicking "create chat room" the user is prompted to enter a name for the chatroom when this name is entered it will then save as a new chat room	10, 11, 12 ,13
TC-8	User searches for file that has not been uploaded to the server	User enters invalid file name in the search bar of DropZone The search function does not display any files as the name searched does not exist in the server file directory	14

TC-9	User tries to make a lobby without a name	User tries to create a new lobby with no value entered in the chat box This gives an alert to the user saying "Chat Room Name cannot be blank. Please enter a valid name."	12, 15
TC-10	User joins lobby and wants to chat with his friend	After a lobby is created it will now be available in both clients From here the user can join the chat by clicking on the name of the lobby and entering a user name From here it will take the user to a chat that will allow the users to communicate by send messages back and forth	13, 16
TC-11	User tries to join without entering a name	On start DropZone will prompt the user to enter a name If the user leaves this field blank it will error lock the user and ask them to enter a valid name	17
TC-12	User wants to upload a file to the Person to Person (PTP)	User clicks on the upload file button This will redirect to file explorer from here they will be able to upload any type of file	18
TC-13	User wants to Download a file from PTP	If the user clicks on the download button it will prompt the user a chat box which will display "Enter the file name to download" Here if the user enters a valid file name it will prompt that user that a file has been downloaded	19, 20

TC-14	User enters invalid name to download a file	After the user clicks the download button and enters an invalid filename to download, it sends an error message to the user saying "Invalid file name. Please enter a valid file name"	21
TC-15	Admin wants to check the database for uploads table	Admin needs to set up the database by setting up the database into phpMyAdmin  Then open the upload table by using this SQL query (SELECT * FROM dropzone.uploads;) into MySQL Workbench	A-G  H
TC-16	Admin wants to check the database for downloads table	Open MySQL Workbench and enter the following query:  (SELECT * FROM dropzone.downloads;)	I

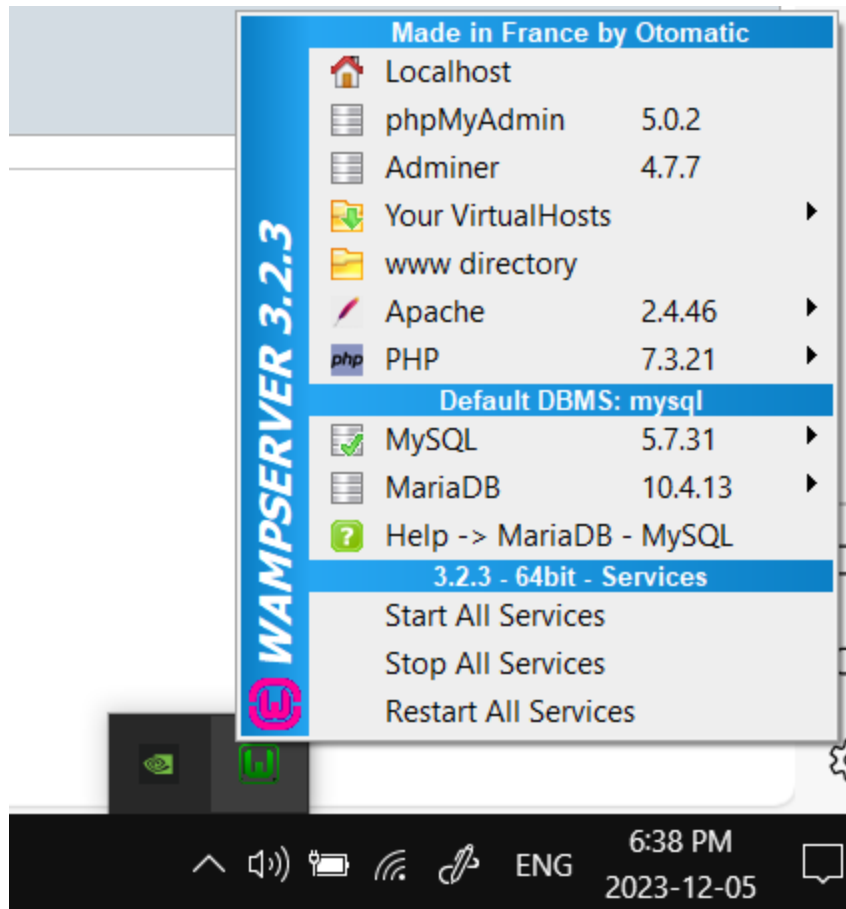


Figure A

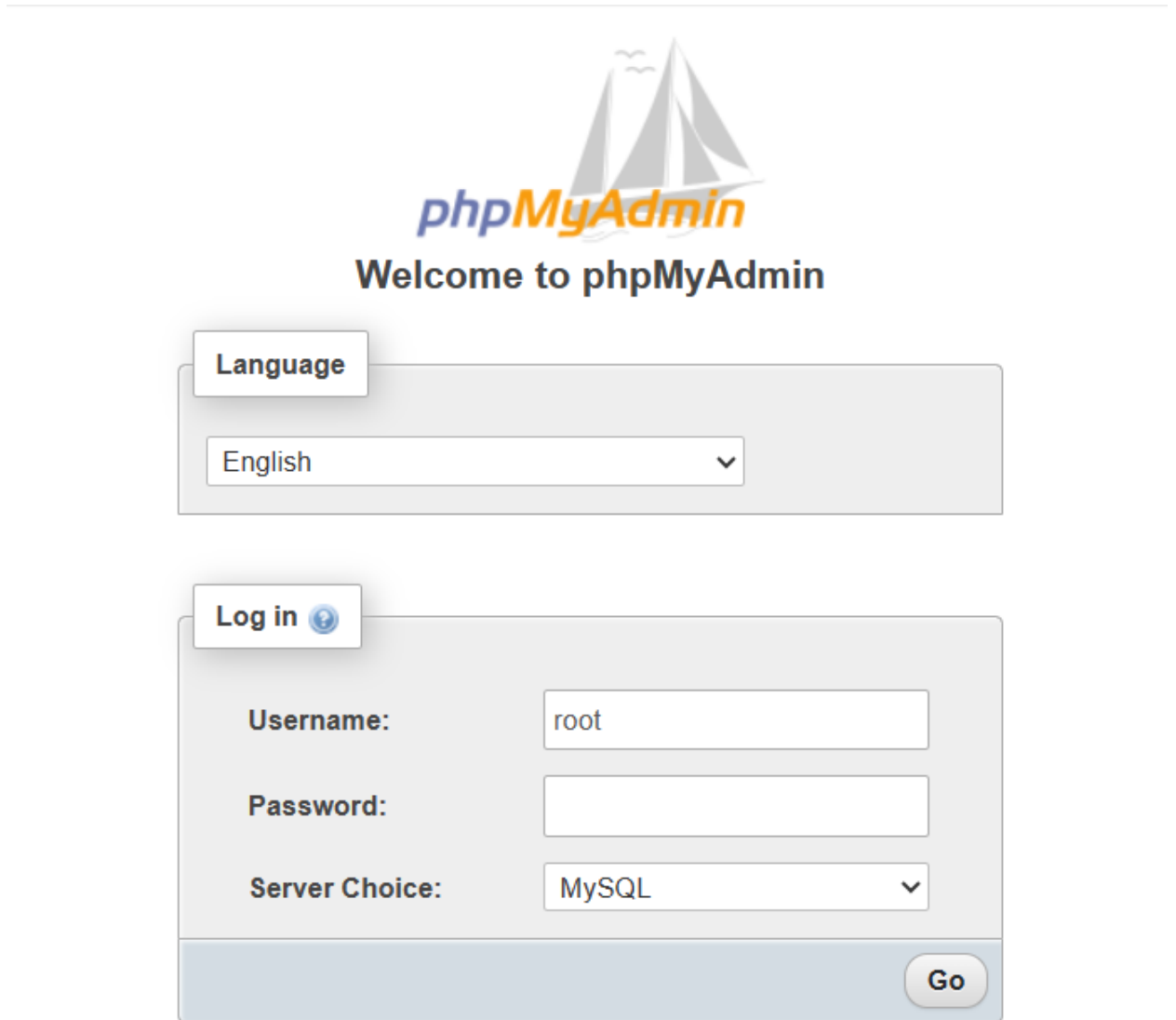


Figure B

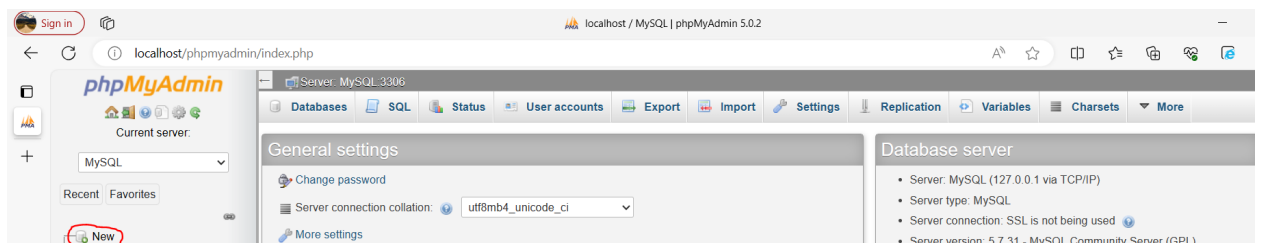


Figure C

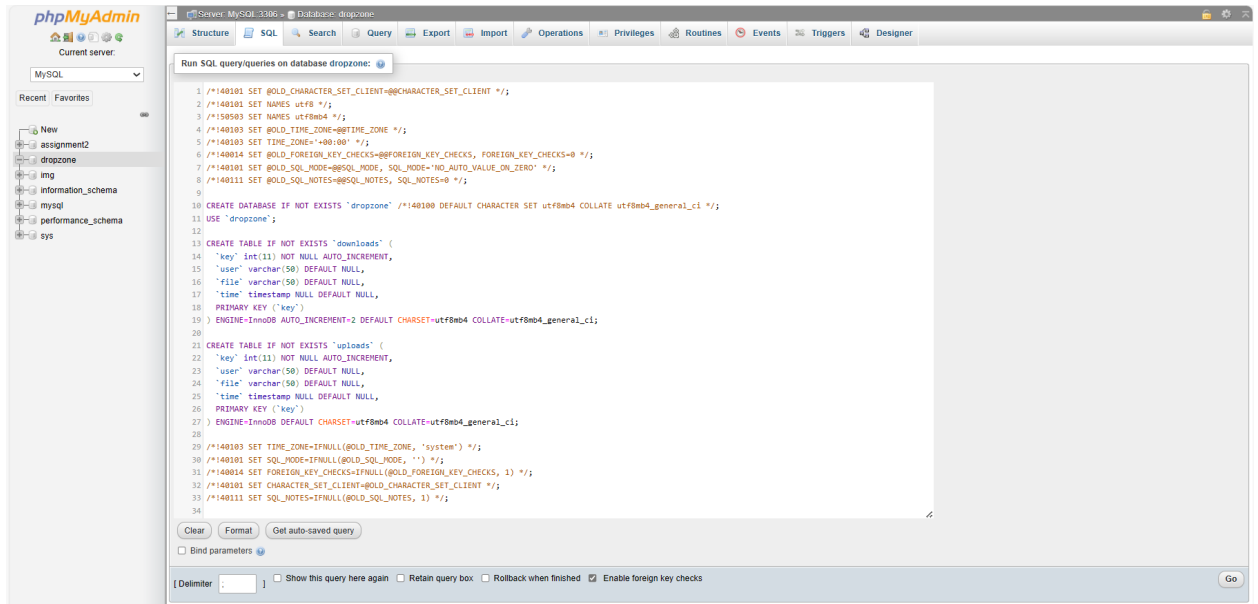


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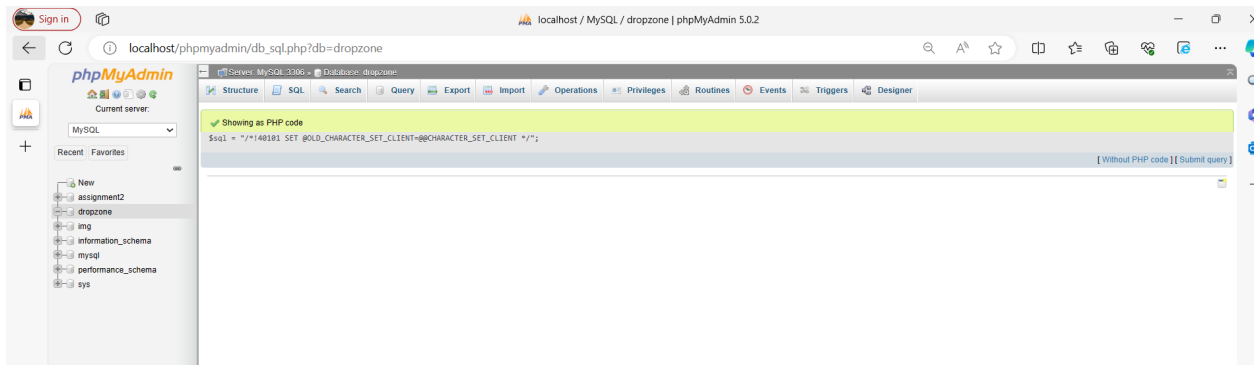


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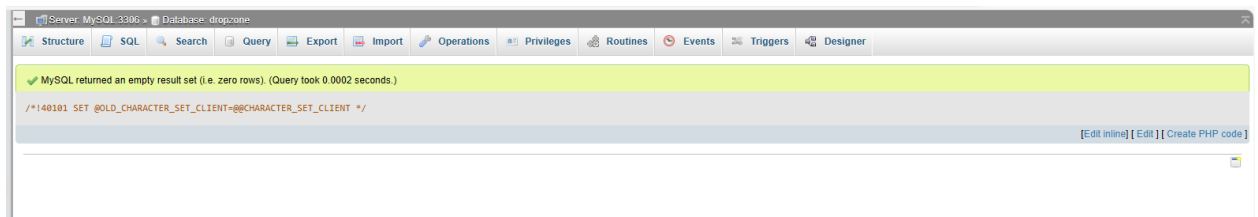


Figure F



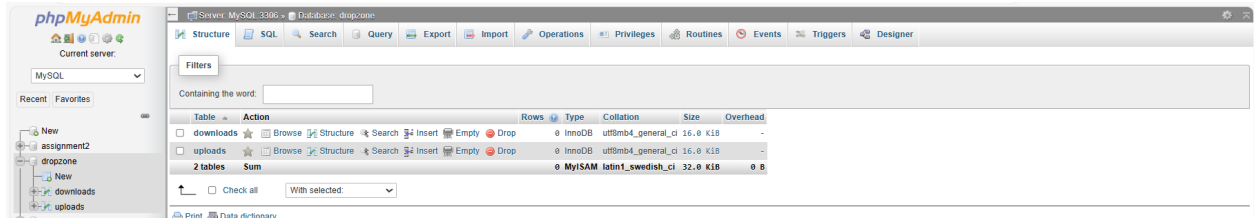


Figure G

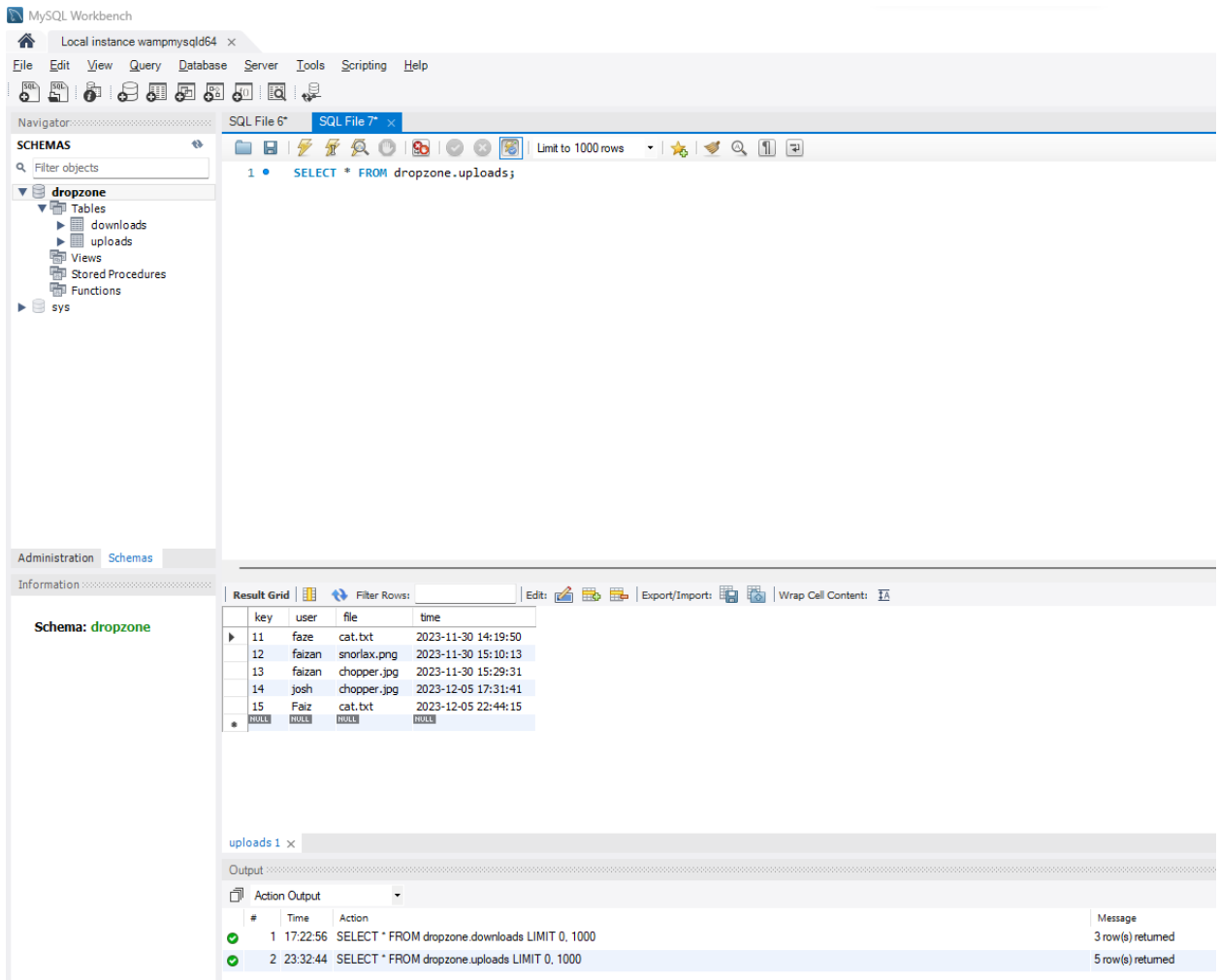


Figure H

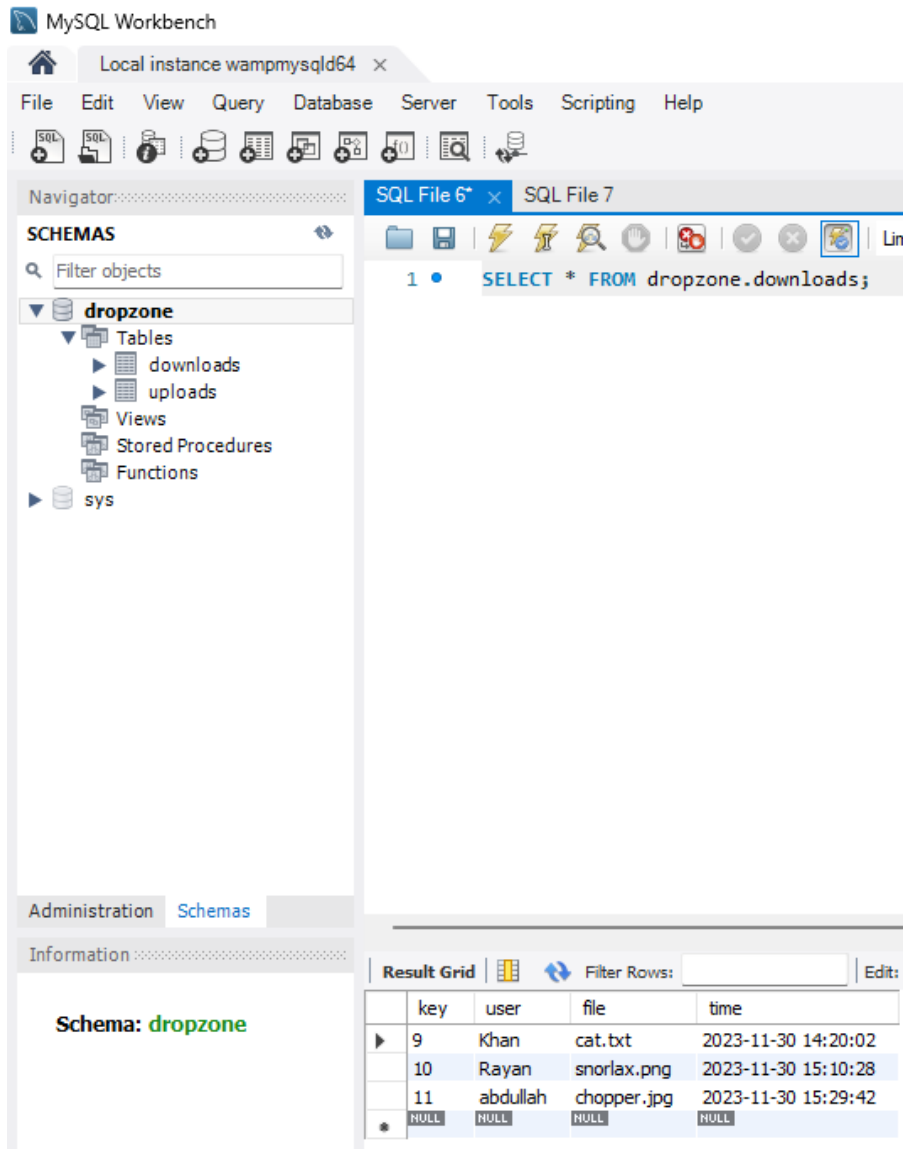


Figure I



Figure 1

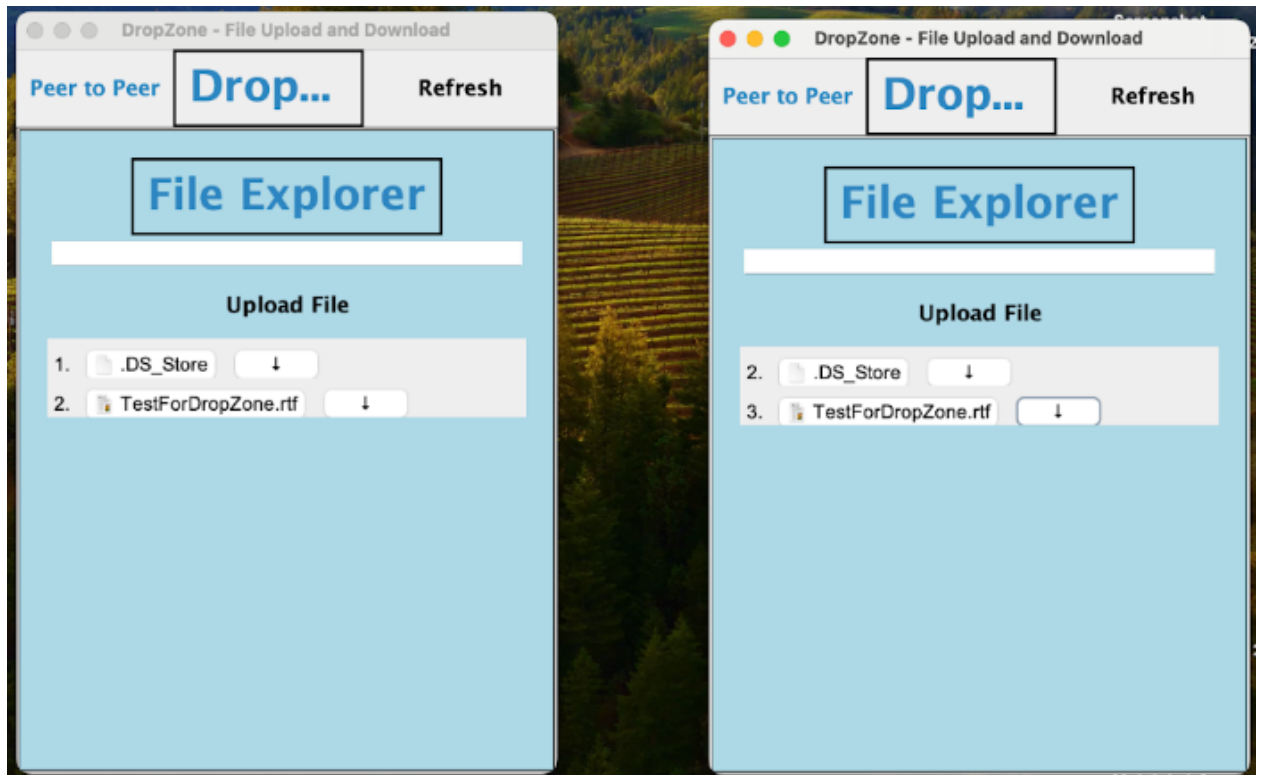


Figure 2

```
/Users/yousifsarmad/Library/Java/JavaVirtualMachines/openjdk-  
Received from server: CLIENT_INFO:DropZoneClient  
Received from server: UPLOAD_FILE:hello.c
```

Figure 3

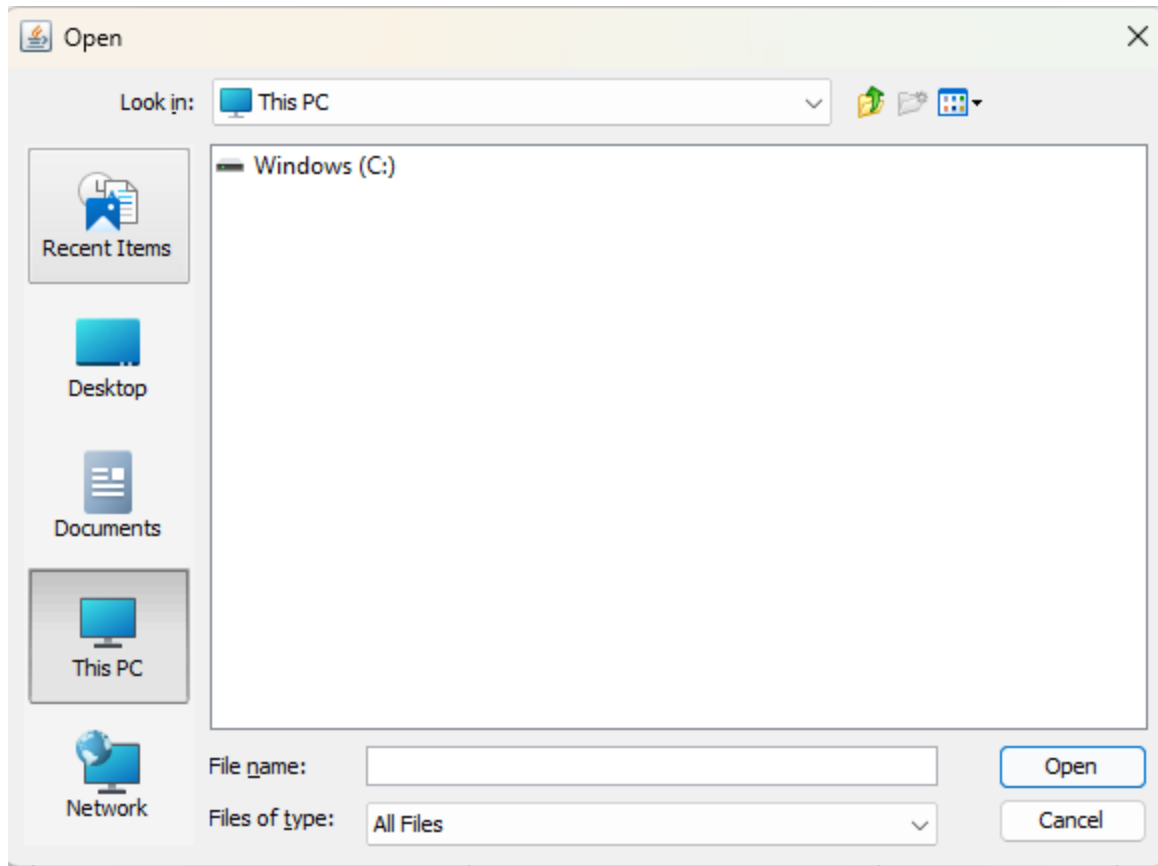


Figure 4

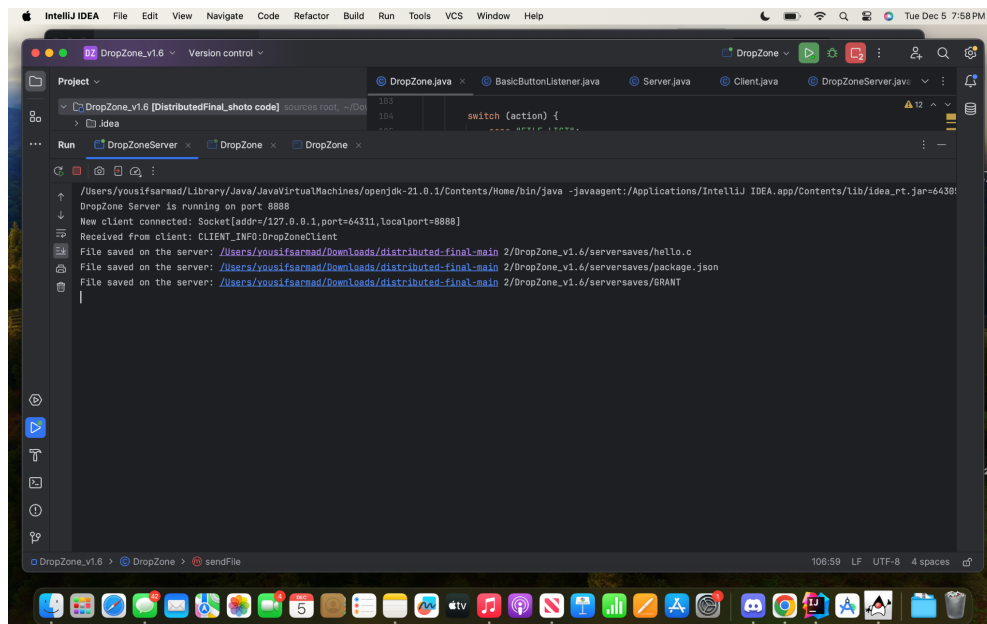


Figure 5

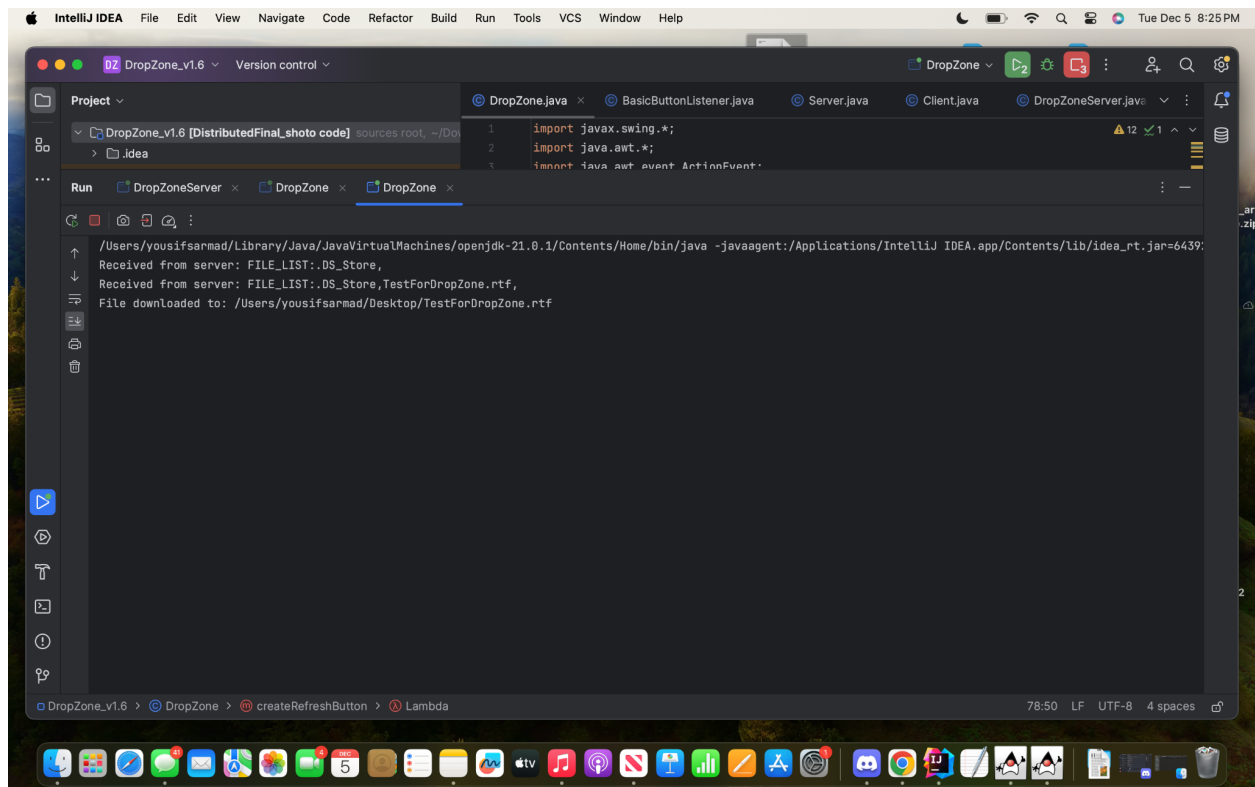


Figure 6

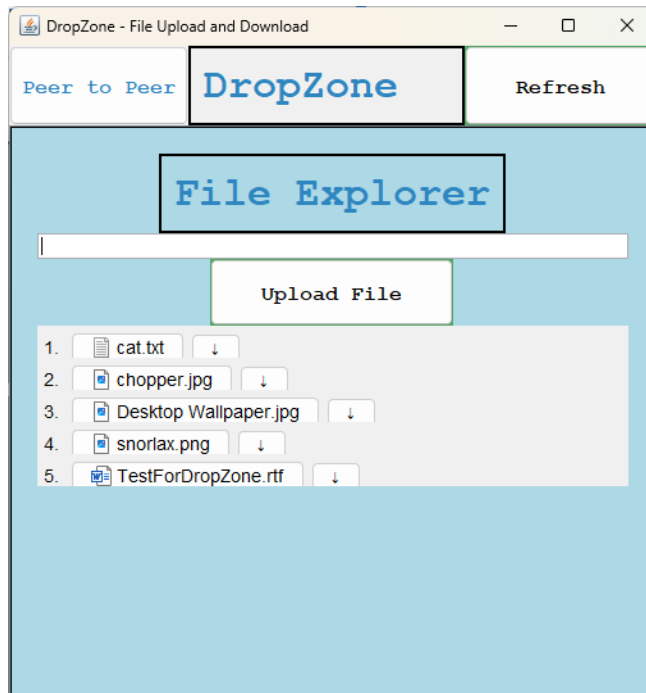


Figure 7



Figure 8

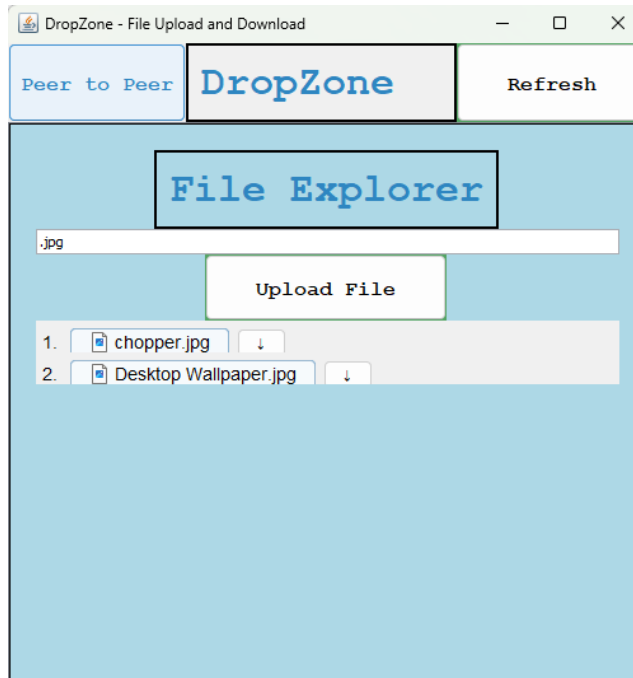


Figure 9

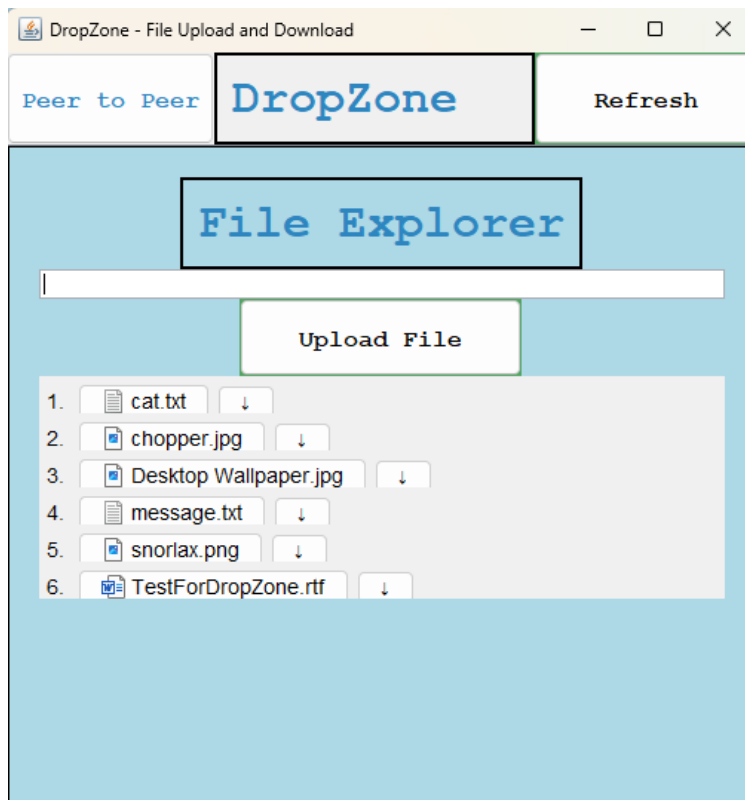


Figure 10





Figure 11

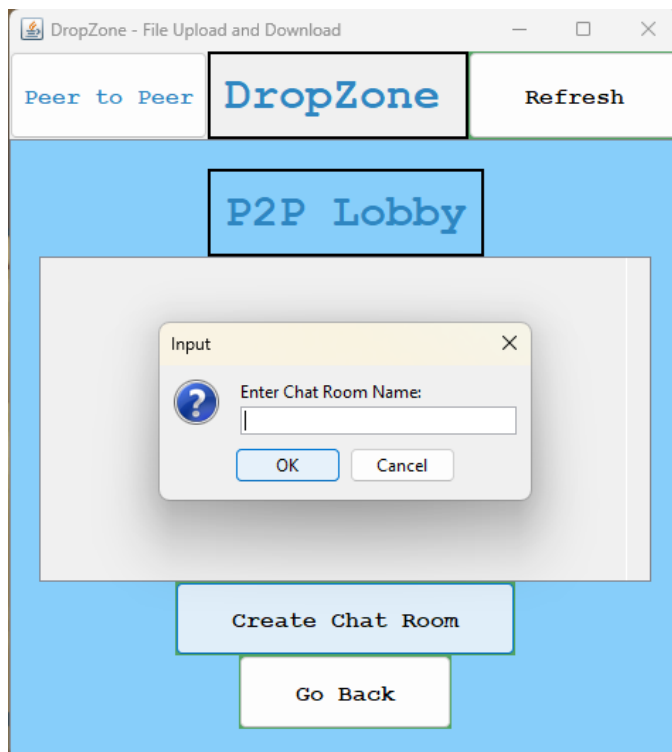


Figure 12



Figure 13



Figure 14



Figure 15

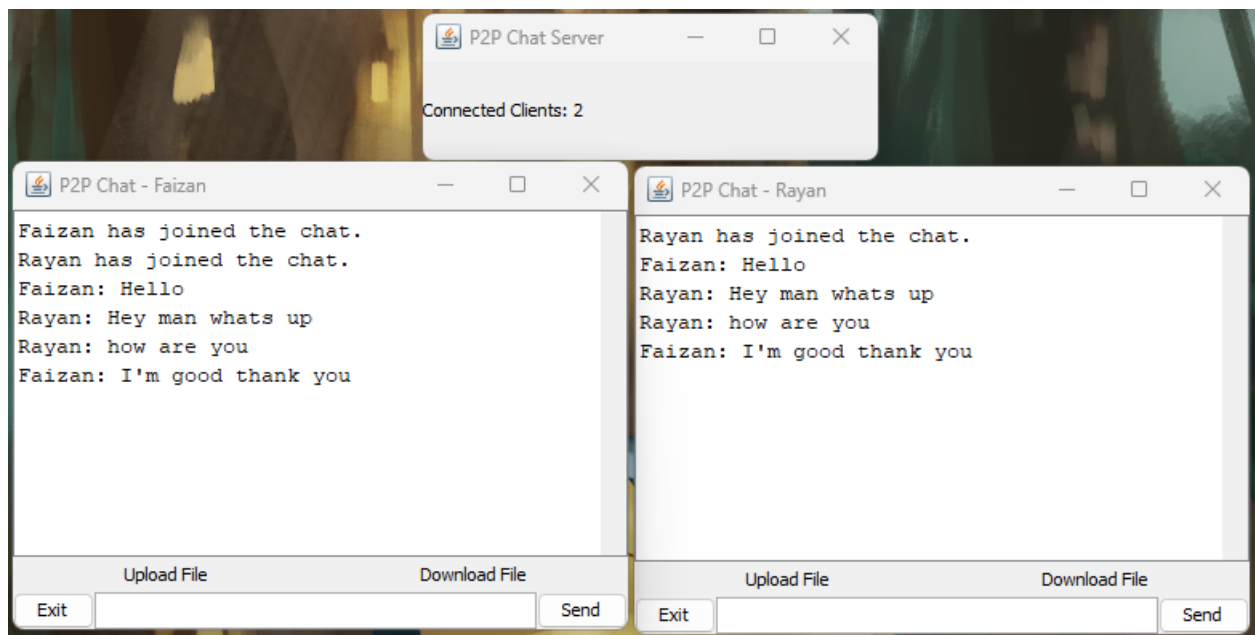


Figure 16

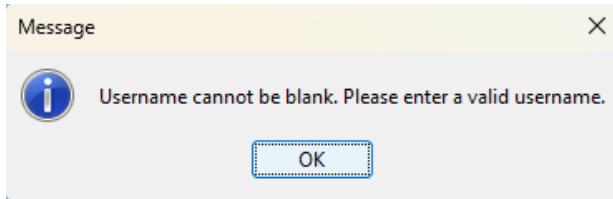


Figure 17

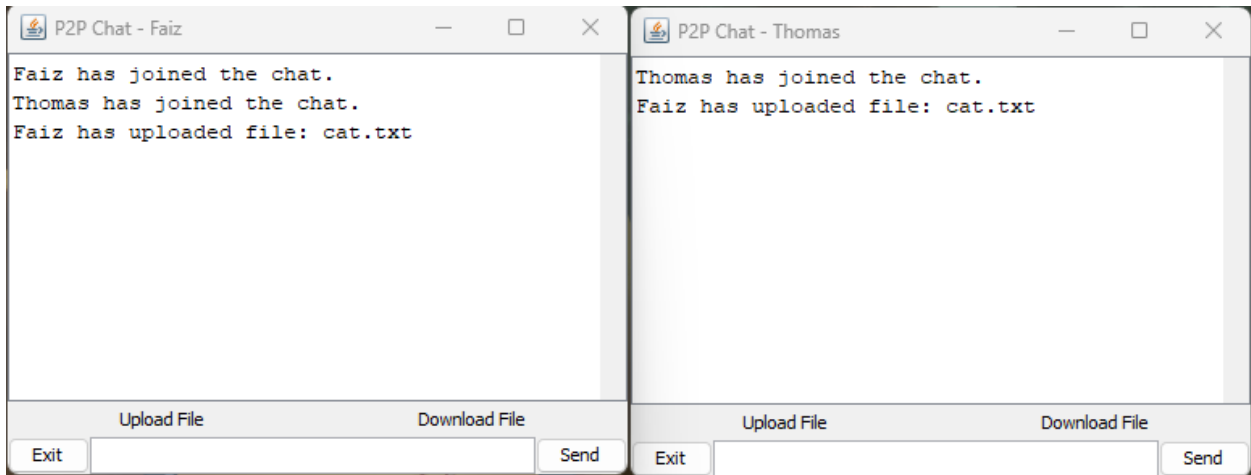


Figure 18

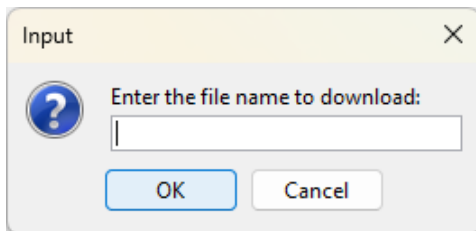


Figure 19

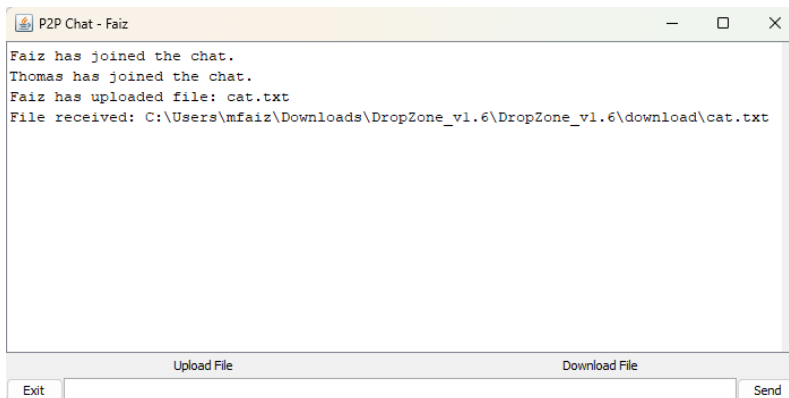


Figure 20

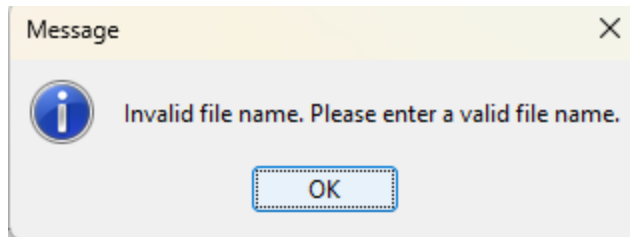


Figure 21