

Welcome to Team 65 Secure Online Storage System!

The following steps guides you to deploy and use our application.

A. Installation of needed software/ libraries:

1. Open the terminal/ command prompt
2. Enter the following command to deploy all the dependencies:
pip install requirements.txt

B. Guideline on how to use this system:

1. Open the terminal/ command prompt
2. Go to the directory of where the System_server.py
3. Run the System_server.py by entering command:
python3 System_server.py
4. Run the Client.py by entering command:
python3 Client.py
5. Log in your email address and ready for receiving the email verification.
6. In client side,
Enter "1" for registration
Enter "2" for log in
Enter "3" for exit the system and termination

C. Register:

Create a new account by registration.

1. Enter your username with at most 15 characters. If the username is used, you will back to main menu, please try again with another username. Make sure your username does not contain comma (,), quote (' or "), slash (/), space and colon (:).
2. Enter your password with at least 8 characters and verify it by inputting again. You have 3 chances for verification.
As password input is hided for security concern, no visual response will be displayed.
3. Enter your email address and verify it by inputting again. You have 3 chances for verification.
4. You will receive a 6-digit code for multi-factor verification, please check your mailbox.
If you cannot find the verification email, please check your spam mailbox.
5. Enter the code received. The code will be expired in 1 minute.
If the code is expired or incorrect, new email with new code will be sent. Please check your email again.
You will have 3 chances to do so.
6. Successful message will be displayed if your registration is success.

D. Log in:

Log in to your account if you have registered before.

1. Enter "1" if you are user.
Enter "2" if you are administrator.
2. Enter your username.
3. Enter your password.
If you input the password wrongly for three times, you account will be locked.
Please contact our admin through email: team65.notice@gmail.com
4. You will receive a 6-digit code for multi-factor verification, please check your mailbox.

5. Enter the code received. The code will be expired in 1 minute.
6. Welcome message and the corresponding interface will be displayed if your log in is success.

For User interface:

Enter “1” for uploading your file.

Enter “2” for downloading your file.

Enter “3” for editing your file.

Enter “4” for deleting your file.

Enter “5” for sharing your file.

Enter “6” for changing your password.

Enter “7” for log out.

* Please note that only the owner of file can perform file editing, deleting and sharing. *

A. Upload file

1. Put your file that want to upload into the same directory of where the System_server.py program located.
2. Enter the file name that you want to upload. Please ensure the file has been uploaded to the system before.
3. File will be encrypted and stored into our system.

B. Download file

1. You will receive a 6-digit code for multi-factor verification, please check your mailbox.
2. Enter the code received. The code will be expired in 1 minute.
3. Enter the file name that you want to download. Please ensure the file has been uploaded to the system before.
4. The download file will be stored into the directory of where the System_server.py program located.

C. Edit file

1. Put your file with new content into the same directory of where the System_server.py
2. Enter the file name that you want to edit. Please ensure the file has been uploaded to the system before.
3. Enter the file name containing the new file content.
4. File content stored in the database will be replaced by new file content if the edition success.

D. Delete file

1. You will receive a 6-digit code for multi-factor verification, please check your mailbox.
2. Enter the code received. The code will be expired in 1 minute.
3. Enter the file name that you want to download. Please ensure the file has been uploaded to the system before.
5. File will be deleted from the system if the deletion success.

E. Share file

1. You will receive a 6-digit code for multi-factor verification, please check your mailbox.
2. Enter the code received. The code will be expired in 1 minute.
3. Enter the file name that you want to download. Please ensure the file has been uploaded to the system before.
4. Enter the username that you want to share the file with one-by-one including those you have shared before. Please make sure the sharing users has registered our system.

5. Enter “///” when you finish entering all the username.
6. File will be shared to the users if the sharing success. Other users with accessibility to the shared file can only download and read the file.

F. Change password

1. You will receive a 6-digit code for multi-factor verification, please check your mailbox.
2. Enter the code received. The code will be expired in 1 minute.
3. Enter your new password with at least 8 characters and verify it by inputting again. You have 3 chances for verification.
4. Password will be changed if the two inputted password is the same.

For Administrator interface:

Enter “1” for reading log file.

Enter “2” for changing your password.

Enter “3” for unlocking user.

Enter “4” for log out.

Regarding security concern, you will receive a 6-digit code for multi-factor verification before performing any of the activity above, please check your mailbox and enter the code for multi-factor authentication.

A. Read log file

You can print out all the log data for auditing the users’ behaviour.

1. You will receive a 6-digit code for multi-factor verification, please check your mailbox.
2. Enter the code received. The code will be expired in 1 minute.
3. After verification, all the log data will be displayed.

B. Change password

1. You will receive a 6-digit code for multi-factor verification, please check your mailbox.
2. Enter the code received. The code will be expired in 1 minute.
3. Enter your new password with at least 8 characters and verify it by inputting again. You have 3 chances for verification.
4. Password will be changed if the two inputted password is the same.

C. Unlock user

You can unlock a locked account and reset their remaining log in attempt to three.

1. You will receive a 6-digit code for multi-factor verification, please check your mailbox.
2. Enter the code received. The code will be expired in 1 minute.
3. Enter the username whom you want to unlock.
4. Enter the corresponding user type.
5. User will be unlocked if the given information is correct.