



PES University, Bengaluru
(Established under Karnataka Act 16 of 2013)

Department of Computer Science & Engineering
Session: Jan – May 2023

UE20CS352 – OOADJ

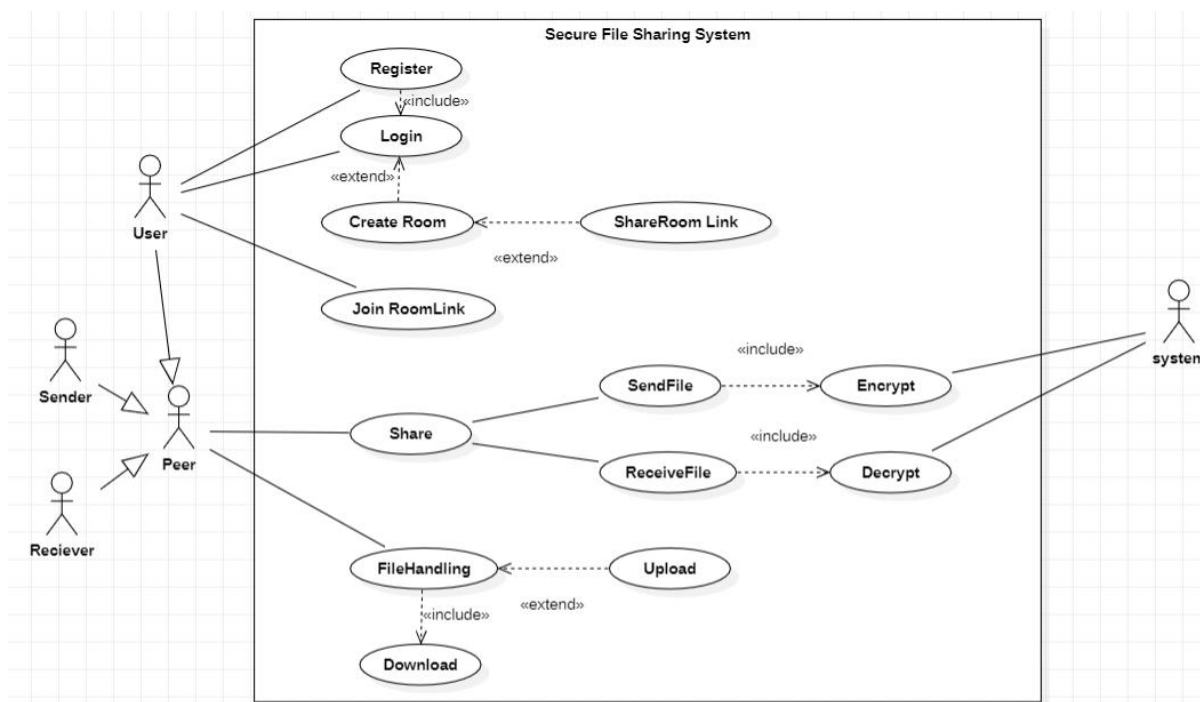
Mini Project

Secure File Sharing System

Team Members :

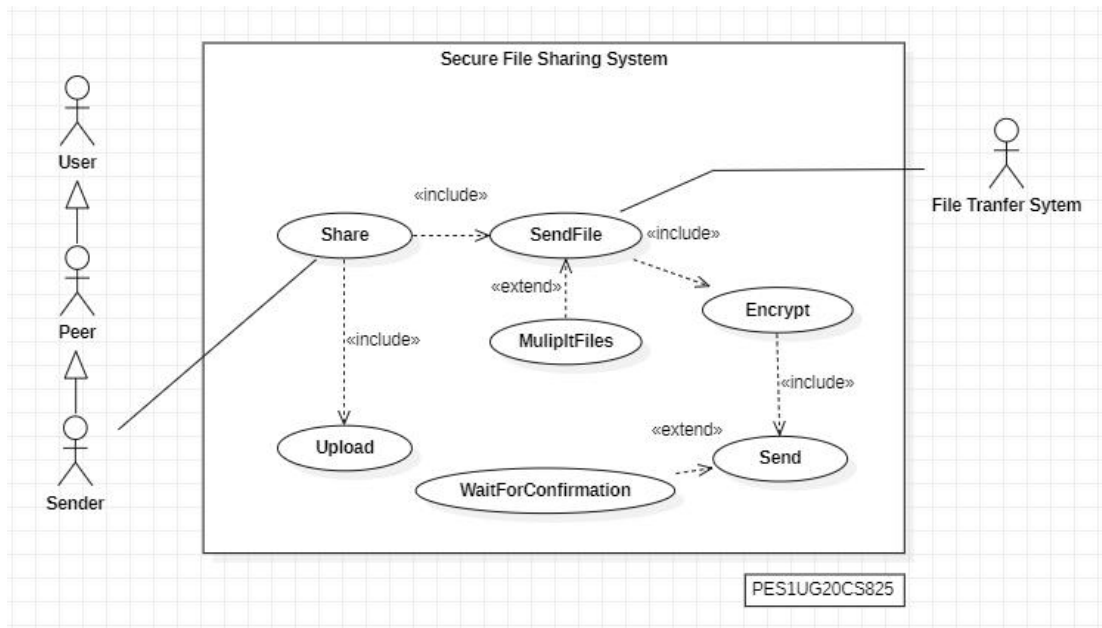
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Secure File Sharing System Use Diagram :



Use Cases :

Send File Use Case Diagram :

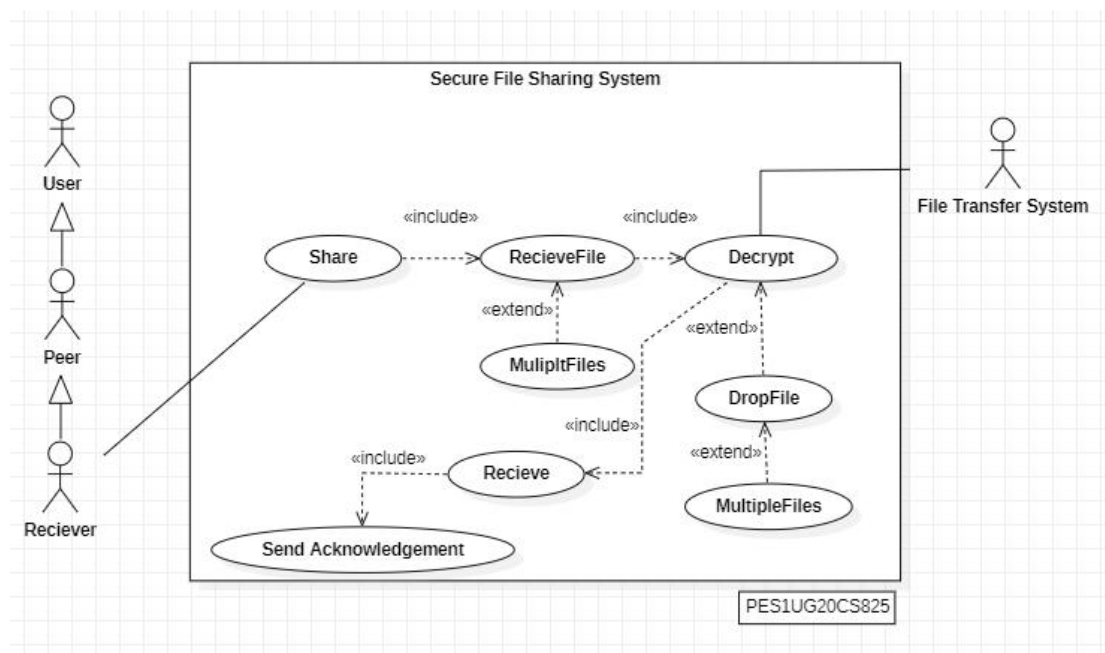


Description :

- Name : Send File Use Case
- Description: This use case represents the actions that a user takes to send a file to another user through the file sharing system.
- Actors: User, File Sharing System.
- Pre-conditions: The user is logged in to the file sharing system, has the file to be sent, and knows the recipient's information.
- Post-conditions: The file is sent to the recipient through the file sharing system.
- Flow of Events:
 - The user selects the "send file" option from the file sharing system's user interface.

- The file sharing system prompts the user to select the file to be sent and enter the recipient's information (e.g. email address, username, etc.).
- The user selects the file to be sent and enters the recipient's information.
- The file sharing system verifies the recipient's information and prompts the user to confirm the file and recipient.
- The user confirms the file and recipient.
- The file sharing system sends the file to the recipient through the file sharing system.
- The file sharing system notifies the user when the file has been successfully sent.

Receive File Use Case Diagram :

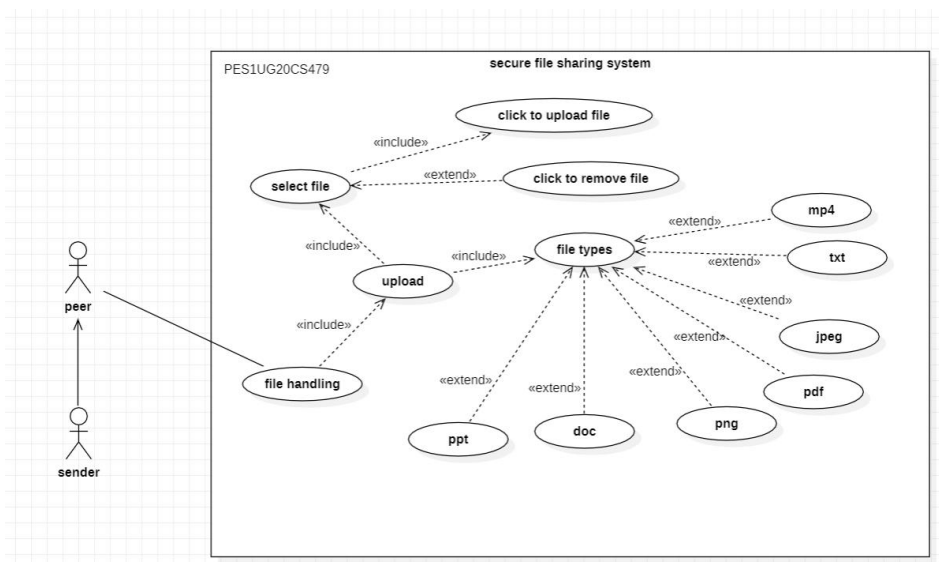


Description :

- Name : Receive File Use Case
- Description: This use case represents the actions that a recipient takes to receive a file sent through the file sharing system.

- Actors: Reciever, File Sharing System.
- Pre-conditions: The recipient has been notified that a file has been sent to them through the file sharing system.
- Post-conditions: The recipient has received the file through the file sharing system.
- Flow of Events:
 - The recipient logs in to the file sharing system.
 - The file sharing system notifies the recipient that a file has been sent to them.
 - The recipient selects the file and downloads it through the file sharing system.
 - The file sharing system verifies the recipient's identity and authorizes the download.
 - The file is downloaded to the recipient's device.
 - The file sharing system notifies the sender that the file has been successfully received.

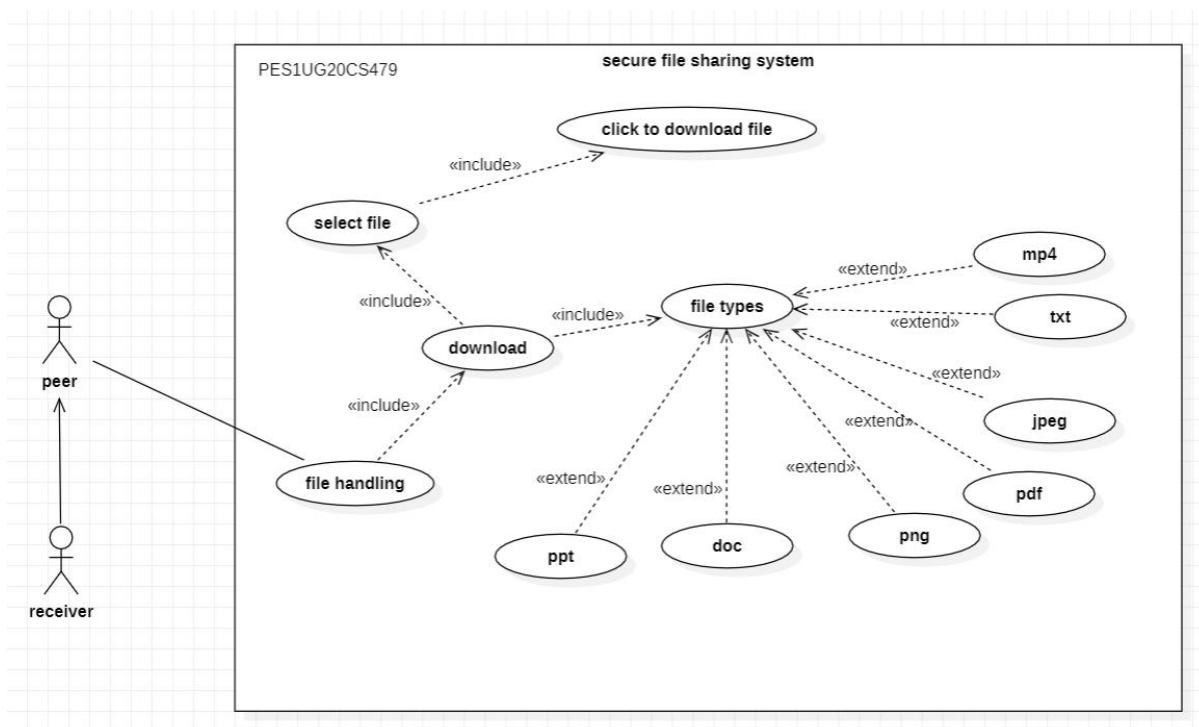
Upload File Use Case Diagram :



Description :

- Name: upload file use case
- Summary: select the file and upload it in file database
- Actor: peer(sender)
- Pre-condition: client has entered the platform
- Description: click on “UPLOAD” to upload the file select file from the peer local system click on “OK” to start upload, uploading could be stopped
- Exception: file is invalid or corrupted
- Post-condition: send file for encryption

Download File Use Case Diagram :

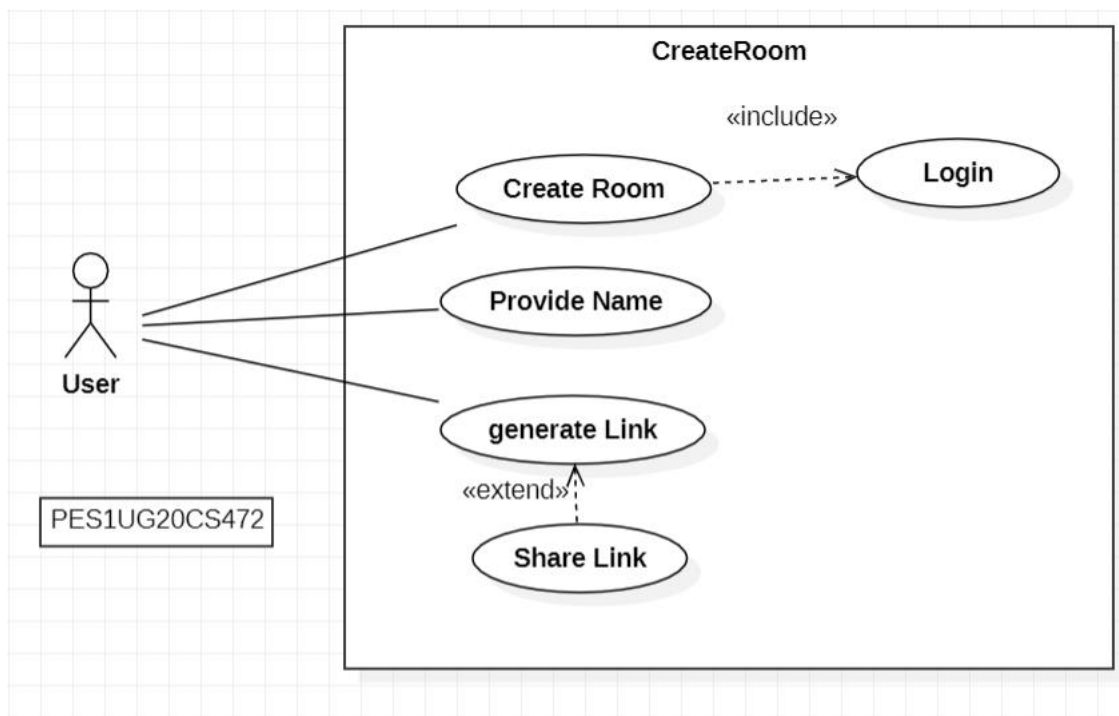


Description :

- Name: download file use case

- Summary: download shared file in the room
- Actor: peer(receiver).
- Pre-condition: file had been received and verified by decryption
- Description: click on “DOWNLOAD” to download the file. select the destination to download in the peer’ s local system click on “OK” to start downloading, downloading could be stopped.
- Exception: file is invalid or corrupted
- Post-condition: peer can continue being in the room to share and receive files.

Create Room Use Case Diagram :

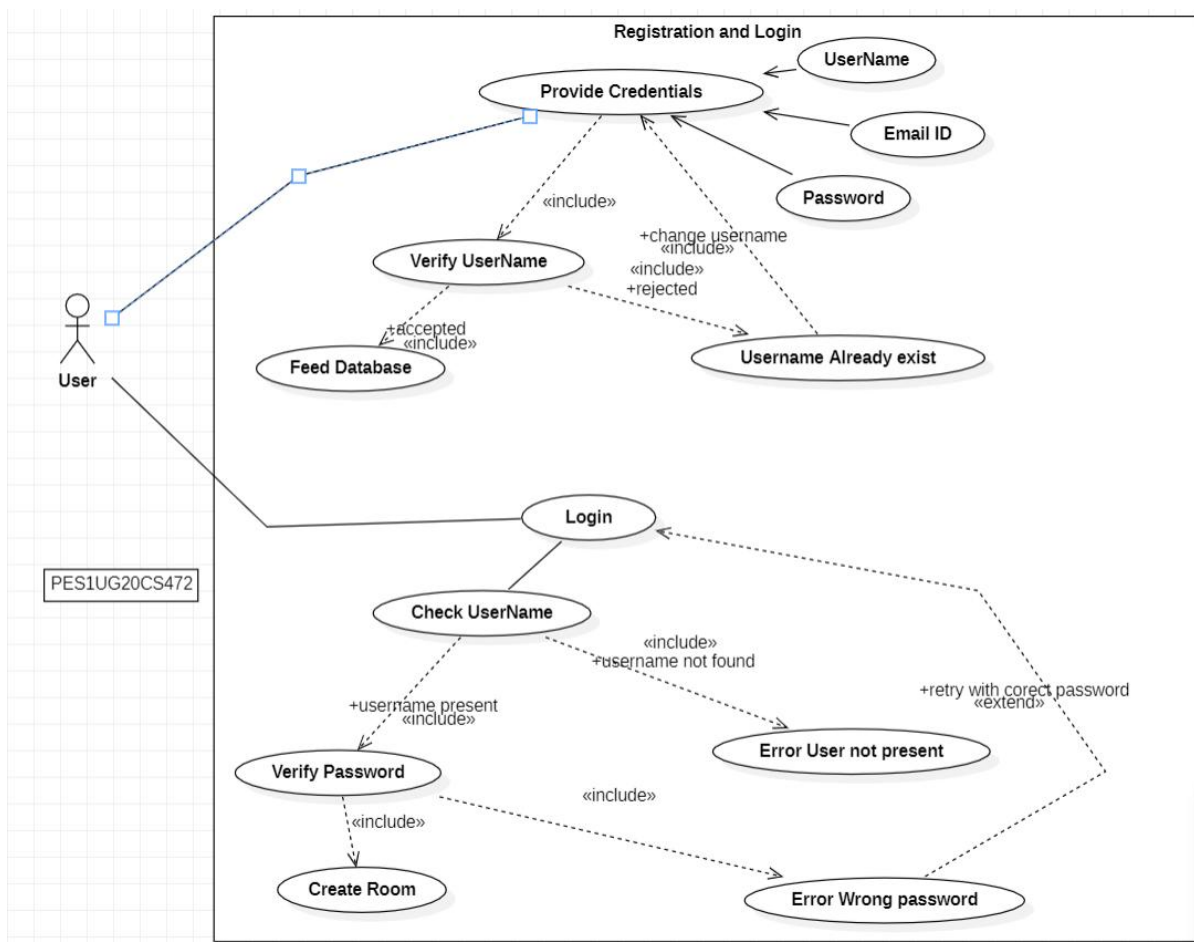


Description :

- Name: CreateRoom
- Summary: Create a room where peers can share files
- Actor: User

- Preconditions: The Client has entered the platform
- Description:
 - - Click on “create room”
 - - Click on “generate room link”
 - - Click on “share link” and share it with other peers and the peers can join the room if the room limit has not been exceeded
- Exceptions: The room limit exceeds
- Post-condition: Peers can join and share files

Registration and Login Use Case Diagram :



Description :

- Name: Registration and Login
- Summary: Register or login to room
- Actor: User
- Description:
 - if the user already has an account, they enter their username or email address and password and click the "login" button.
 - If the user is a new user, they click the "register" button and are directed to a registration form.
 - If the credentials are valid and the account is activated, the system logs the user in and directs them to the main page of the application or website.
 - If the credentials are not valid or the account has not been activated, the system displays an error message explaining why the login failed
- Exceptions: invalid username or password
- Post-condition: Go ahead and Create or join room

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