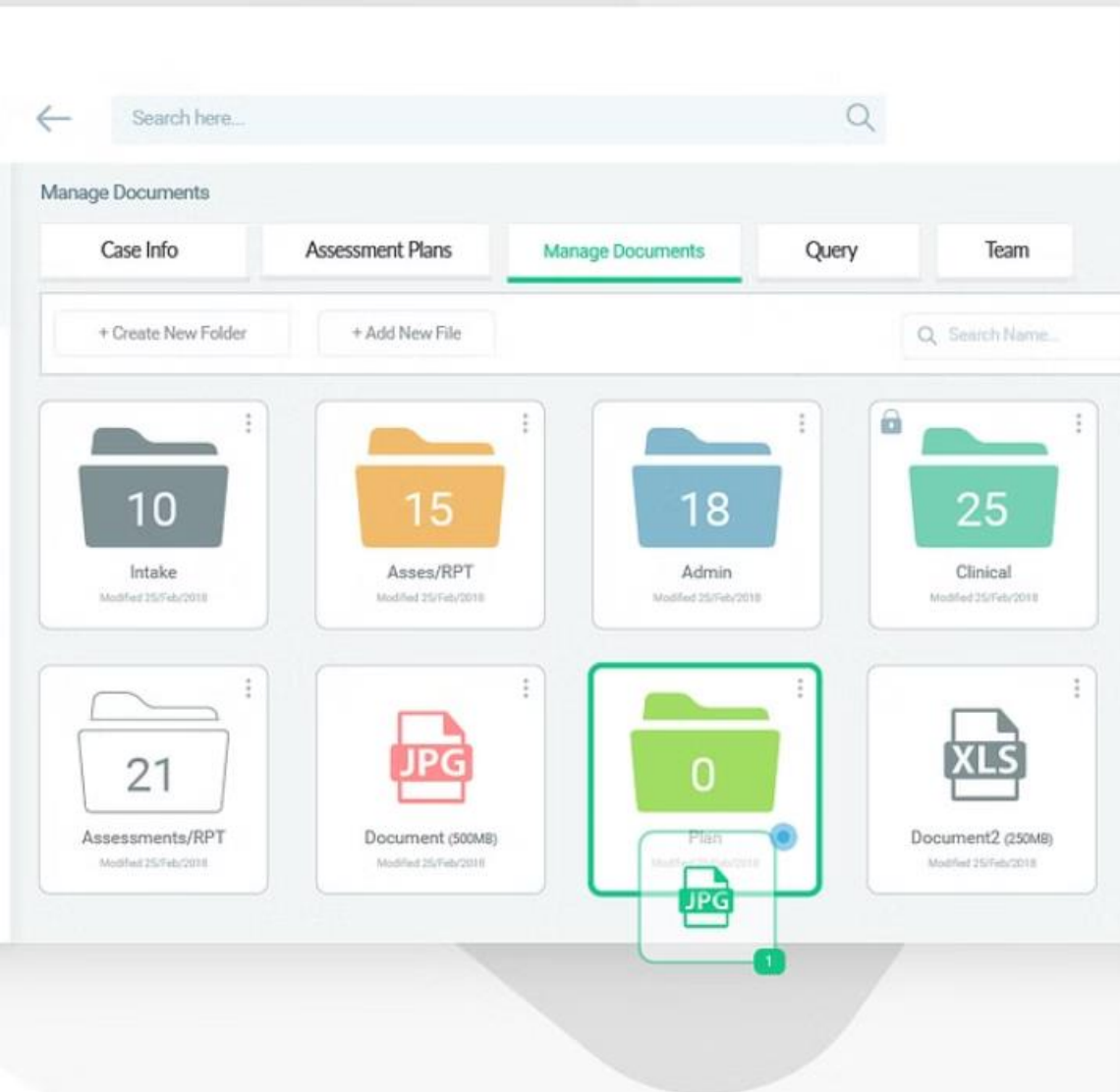


## File Management System

File upload option through device, drop-box, Google drive.  
drag and drop in file and folder



# FileNest: Collaborative File Management System

The Collaborative File Management System is a comprehensive solution designed to facilitate efficient management of files stored on a server. It provides users with a range of features, including the ability to create, delete, rename, write to, and read from files, all accessible through both a command-line interface (CLI) and a graphical user interface (GUI). This system aims to simplify file operations and enhance collaboration among users, making it a valuable tool for various applications and environments.

# Command-Line Interface (CLI)

## List Files

Users can view a list of files available on the server, allowing them to stay informed about the contents of the file system.

1

2

## Create File

Users can create new files on the server, expanding the file system as needed. If a file with the same name already exists, the system notify the user.

## Delete File

Users can delete existing files from the server, freeing up space and maintaining an organized file system. If the specified file does not exist, the system will inform the user.

3

# Command-Line Interface (CLI) Continued

## Rename File

Users can rename existing files on the server, allowing them to better organize and manage their files. If the specified file does not exist, the system will notify the user.

1

2

## Write to File

Users can write data to existing files on the server, enabling them to update and maintain the content of their files. If the specified file does not exist, the system will inform the user.

3

## Clear File Content

Users can clear the content of existing files on the server, effectively resetting the file to an empty state. If the specified file does not exist, the system will notify the user.



# Graphical User Interface (GUI)

## List Files

The GUI provides a scrollable text box that displays the list of files available on the server, allowing users to easily view and manage the contents of the file system.

## Create File

Users can input a filename in a text box and click a button to create a new file on the server. If the file already exists, the system will notify the user.

## Delete File

Users can select a file from the list and click a button to delete the file from the server. If the specified file does not exist, the system will inform the user.

# Graphical User Interface (GUI)

## Continued

### Rename File

Users can input the old and new filenames in text and click a button to rename the file on the server. If the specified file does not exist, the system will notify the user.

### Write to File

Users can input a filename and data in text boxes, then click a button to write the data to the corresponding file on the server. If the specified file does not exist, the system will inform the user.

### Read File

Users can input a filename in a text box and click a button to display the content of the file in a scrollable text box. If the file is empty or the specified file does not exist, the system will notify the user.



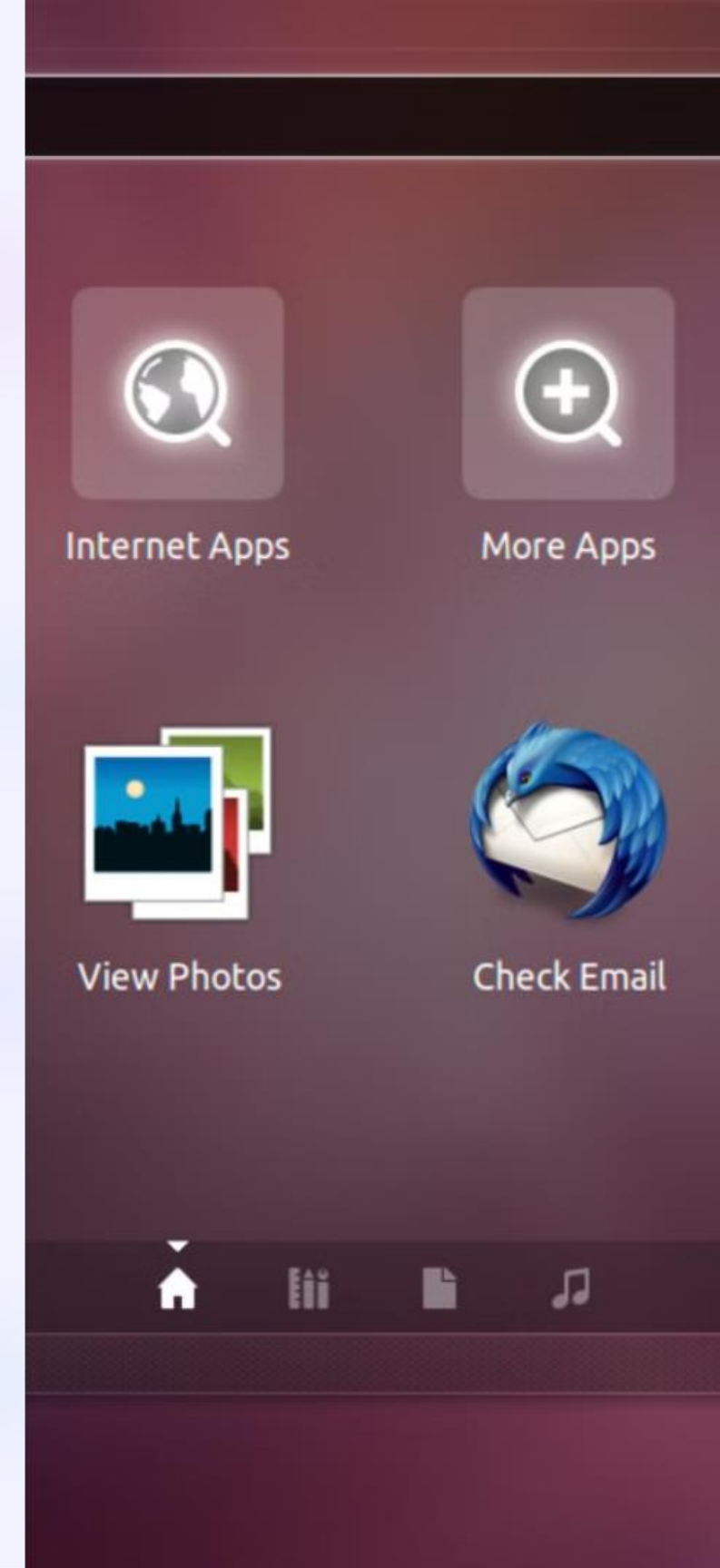
# Graphical User Interface (GUI) Continued

## Clear File Content

Users can input a filename in a text box and click a button to clear the content of the corresponding file on the the server. If the specified file does not exist, the system will inform the user.

## Exit

Users can click a button to exit the graphical user interface, terminating their connection with the server and concluding their file management session.





# Error Handling and Future Enhancements

1

## Error Handling

Both the server and client applications implement robust error handling mechanisms, displaying appropriate error messages to users in case of connection failures, invalid requests, or other unexpected situations.

2

## Future Enhancements

The Collaborative File Management System can be further improved with features such as enhanced security, file transfer capabilities, improved GUI functionality, real-time updates, and file versioning, making it a more comprehensive and user-friendly solution.



# **Team Members**

**B22AI051: Arjun Bhattad**

**B22AI056: Chirag Kumar**

**THANK  
YOU**