**File Explorer Applicatio**

**Pseducode for File Explorer.h:**

Header File: FileExplorer.h

Define FILE\_EXPLORER\_H

Include necessary headers #include <string> #include <filesystem>

Define the FileExplorer class

Class FileExplorer

Public:

Constructor FileExplorer()

Initialize currentDirectory to the current path

// FileExplorer Destructor

~FileExplorer():

// Clean up resources, if any

// List files in the given directory path

listFiles(path):

// Retrieve a list of files and directories from the specified path

// Store the list in the 'files' member variable

// Display the files and directories to the user

Method navigateTo(path: std::string) : void

// Change current directory to the specified path

Method copyFile(source: std::string, destination: std::string) : void

// Copy a file from source to destination

Method moveFile(source: std::string, destination: std::string) : void

// Move a file from source to destination

Method deleteFile(path: std::string) : void

// Delete the specified file

Method createFile(path: std::string) : void

// Create a new file at the specified path

Method searchFiles(directory: std::string, keyword: std::string) : void

// Search for files containing the keyword in the specified directory

Method setPermissions(path: std::string, permissions: std::filesystem::perms) : void

// Set the permissions of the specified file

Method displayPermissions(path: std::string) : void

// Display the permissions of the specified file in a readable format

Private:

// Attribute currentDirectory: std::filesystem::path

// Store the current directory path

**Pseducode for File Explorer.cpp**

Implementation File: FileExplorer.cpp

Include the FileExplorer.h header

#include "FileExplorer.h"

Include additional necessary headers

#include <iostream>

#include <fstream>

#include <algorithm>

#include <stdexcept>

#include <vector>

Define the constructor for FileExplorer class

Constructor: FileExplorer()

// Initialize the FileExplorer object

// Destructor for FileExplorer

~FileExplorer():

// Clean up resources, if any

// List files in the specified directory path

listFiles(path):

Clear the 'files' vector to remove any previous listings

For each entry in the directory at 'path'

Add the entry's path to the 'files' vector

Print the entry's path

// Navigate to a different directory and list its contents

navigateTo(path):

Clear the 'files' vector to remove previous listings

Call listFiles(path) to list files in the new directory

// Print the list of files stored in the 'files' vector

printFiles():

For each file in the 'files' vector:

Print the file's path

// Copy a file from 'src' to 'dest'

copyFile(src, dest):