SOURCE CODE

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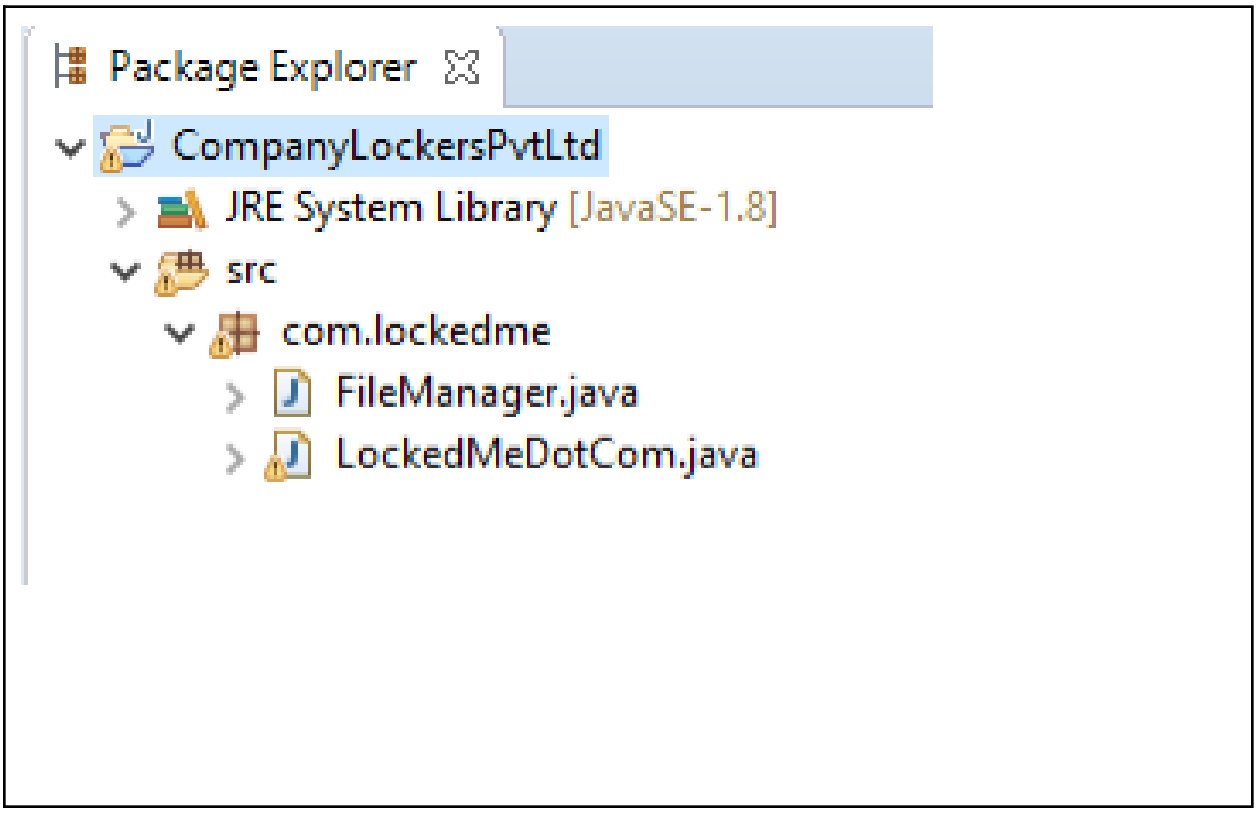
PROJECT CODE:

Folder Structure :



FileManager.java

```
package com.lockedme;

import java.io.File;
import java.io.FileWriter;
import java.util.ArrayList;
import java.util.List;

public class FileManager
{
	/**
	 * This method will return the files names from the folder
	 * @param folderpath
	 * @return List<String>
	 */
	public static List<String> getAllFiles(String folderpath)
	{
		// Creating File object
		File folder = new File(folderpath);

		// Getting all the Files into FileArray
		File[] listOfFiles = folder.listFiles();

		// Declaring a List to store file names
		List<String> fileNames = new ArrayList<String>();

		for(File f:listOfFiles)
			fileNames.add(f.getName());

		// return the List
		return fileNames;
	 }


	/**
	 * This method will create or append content to the specified file
	 * @param folderpath
	 * @param fileName
	 * @param content
```

```
     * @return boolean
     */
    public static boolean addFiles(String folderpath, String fileName, List<String>
content)
    {
        try
        {
          File folder = new File(folderpath, fileName);
          FileWriter fw = new FileWriter(folder);

          for(String s : content)
          {
                fw.write(s+"\n");
          }
          fw.close();
          return true;
        }
        catch(Exception Ex)
        {
            return false;
        }

     }

    /**
     * This method will delete the file name if it exists
     * @param folderpath
     * @param fileName
     * @return boolean
     */
    public static  boolean deleteFiles(String folderpath, String fileName)
    {

          // Adding folder path with file name and creating file object
          File file = new File(folderpath+"\\"+fileName);

          try
          {
                if(file.delete())
                      return true;
```

```
                else
                        return false;
        }
        catch(Exception Ex)
        {
                return false;
        }
    }

    /**
     * This method will search the file name if it exists
     * @param folderpath
     * @param fileName
     * @return boolean
     */
    public static  boolean searchFiles(String folderpath, String fileName)
    {
        // Adding folder path with file name and creating file object
        File file = new File(folderpath+"\\"+fileName);

        if(file.exists())
                return true;
        else
                return false;

    }
}
```

LockedMeDotCom.java

```
package com.lockedme;

import java.util.ArrayList;
import java.util.List;
import java.util.Scanner;

public class LockedMeDotCom
```

```
{
   static final String folderpath = "D:\\Phase1FinalProject\\LockedMeProjectFiles";
        public static void main(String[] args)
        {
                int proceed = 1;
                do
                {


                        // Variable declaration
                        int ch;

                        // Menu
                        ch = displayMenu();


                        switch(ch)
                        {
                        case 1 : getAllFiles();
                                 break;
                        case 2 : addFiles();
                                 break;
                        case 3 : deleteFiles();
                                 break;
                        case 4 : searchFiles();
                                 break;
                        case 5 : System.exit(0);
                                 break;
                        default : System.out.println("Invalid Option");
                                 break;

                        }

                }while(proceed>0);


        }


        public static int displayMenu()
```

```
  {
        Scanner obj = new Scanner(System.in);
        int ch;

        System.out.println("*************************************************");
        System.out.println("\t  Company Lockers Pvt. Ltd.");
        System.out.println("*************************************************");
        System.out.println("1. Display all files");
        System.out.println("2. Add a new file");
        System.out.println("3. Delete a file");
        System.out.println("4. Search a file");
        System.out.println("5. Exit");
        System.out.println("*************************************************");
        System.out.println("Enter your choice:");
        ch = Integer.parseInt(obj.nextLine());

        return ch;
  }

  public static void getAllFiles()
  {
        // code for getting file names

List<String> fileNames = FileManager.getAllFiles(folderpath);

if(fileNames.size()==0)
  System.out.println("No files in the directory");
else
{
  System.out.println("File list is below:");

      for(String f : fileNames)
  System.out.println(f);
}
  }

  public static void addFiles()
  {

        // code for add files
```

```
		// Variable Declaration
		Scanner obj = new Scanner(System.in);
		String fileName;
		int linesCount;
		List<String> content = new ArrayList<String>();

		// Read File Name from user
		System.out.println("Enter File Name:");
		fileName = obj.nextLine();

		// Read number of lines from user
		System.out.println("Enter number of lines in the file:");
		linesCount = Integer.parseInt(obj.nextLine());

		// Read lines from user
		for(int i = 1; i<=linesCount; i++)
		{
			System.out.println("Enter line "+i+":");
			content.add(obj.nextLine());
		}

		// Save the content into the file
		boolean isSaved = FileManager.addFiles(folderpath, fileName, content);

		if(isSaved)
			System.out.println("File and data saved sucessfully");
		else
			System.out.println("Some error occured. Please contact
admin@abc.com");


	}

	public static void deleteFiles()
	{
		// Code for deleting a file

		String fileName;
		Scanner obj = new Scanner(System.in);
```

```
            System.out.println("Enter file name to be deleted:");
            fileName = obj.nextLine();

            boolean isDeleted = FileManager.deleteFiles(folderpath,  fileName);
            if(isDeleted)
                  System.out.println("File deleted successfully");
            else
                  System.out.println("Either file does not exist or some access
issue");

      }

      public static void searchFiles()
      {
            // Code for searching a file
            String fileName;
            Scanner obj = new Scanner(System.in);
            System.out.println("Enter file name to be searched:");
            fileName = obj.nextLine();

            boolean isFound = FileManager.searchFiles(folderpath,  fileName);
            if(isFound)
                  System.out.println("File is present in the folder");
            else
                  System.out.println("File is not present in the folder");
      }

}
```
