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| **Lockedme.com**  **(Sprint work and Project specification)** |

**Version History:**

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| Author | **Aman Kumar** |
| Purpose | **Sprint work and Project specification with Code** |
| Date | **12/08/2021** |
| Version | **1.0** |

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# Modules in the Project:

* Display all files
* Add Files
* Delete File
* Search File

# Java Technologies Used:

* Exception Handling
* Working with Files
* Naming Standards
* Modularity
* Object Oriented Programming
* Collections
* Control Structure
* Data Structure

# Sprint Work wise:

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| Sprint Number | Modules |
| 1. | >> Display all files: This module will display all the file name in the folder  >> Add new files: This Module will add file in the folder |
| 2. | >>Delete Files: This module will be used to delete the file.  >>Search File : This module will be used to search the file.  >>Testing  >>Deployment (Creating a Jar File) |

# GITHUB link:

# Project Code:

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| **Folder Structure** |
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| **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 all the file name from the folder  \* **@param** folderpath  \* **@return** List <String>  \*/  **public** **static** List<String> getAllFiles (String folderpath)  {  //Creating File Object  File fl = **new** File(folderpath);    //Getting all the file into FileArray  File [] listOfFile = fl.listFiles();    //Declare a list to store file names  List<String> fileNames = **new** ArrayList<String>();    **for**(File f:listOfFile)  fileNames.add(f.getName());    //return the List  **return** fileNames;    }  /\*\*  \* This method will create content into the file specified  \* **@param** folderpath  \* **@param** Filename  \* **@param** content  \* **@return** boolean  \*/  **public** **static** **boolean** createFiles (String folderpath, String fileName, List <String> content)  {  **try**  {  File fl = **new** File(folderpath, fileName);  FileWriter fw = **new** FileWriter(fl);  **for** (String s:content)  {  fw.write(s+"\n");  }  fw.close();  **return** **true**;  }  **catch**(Exception Ex)  {  **return** **false**;  }  }  /\*\*  \* This method will delete the specific file if exist  \* **@param** folderpath  \* **@param** fileName  \* **@return**  \*/  **public** **static** **boolean** deleteFile (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 code will search the specific file if exist  \* **@param** folderpath  \* **@param** fileName  \* **@return**  \*/    **public** **static** **boolean** searchFile (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**;    }  } |

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| **LockedMeProject.java** |
| **package** com.lockedme;  **import** java.util.ArrayList;  **import** java.util.List;  **import** java.util.Scanner;  **public** **class** LockedMeProject  {  **static** **final** String ***folderpath*** = "D:\\MyPhase1Project\\LockedMeFiles";  **public** **static** **void** main(String[] args)  {  **int** proceed= 1;    **do**  {  //Variable declaration  Scanner obj = **new** Scanner(System.***in***);  **int** ch;    //Menu  *displayMenu*();  System.***out***.println("Enter your Choice:");  ch=Integer.*parseInt*(obj.nextLine());    **switch**(ch)  {  **case** 1 : *getAllFiles*();  **break**;  **case** 2 : *createFiles*();  **break**;  **case** 3 : *deleteFile*();  **break**;  **case** 4 : *searchFile*();  **break**;  **case** 5 : System.*exit*(0);  **break**;  **default** : System.***out***.println("Invalid Option");  **break**;  }  }  **while**(proceed>0);  }  **public** **static** **void** displayMenu()  {  System.***out***.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");  System.***out***.println("\t\tLockedMe.com");  System.***out***.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");  System.***out***.println("1. Get all file");  System.***out***.println("2. Add new file");  System.***out***.println("3. Delete a file");  System.***out***.println("4. Search a file");  System.***out***.println("5. Exit");  System.***out***.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");  }    /\*\*  \* This method is for getting the file name.  \*/  **public** **static** **void** getAllFiles()  {  //Getting the File Name  List<String> fileNames = FileManager.*getAllFiles*(***folderpath***);    **for**(String f:fileNames)  System.***out***.println(f);    }    /\*\*  \* This method is to create the files  \*/  **public** **static** **void** createFiles()  {  //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 the FIle Name:");  fileName= obj.nextLine();    //Read number of lines from user  System.***out***.println("Enter how many line 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.*createFiles*(***folderpath***, fileName, content);    **if**(isSaved)  System.***out***.println("File and data is saved sucessfully");  **else**  System.***out***.println("Some error occured. Please contact admin@LockedMe.com");  }    /\*\*  \* This method is to delete the specific file  \*/  **public** **static** **void** deleteFile()  {  //Variable Declaration  String fileName;  Scanner obj = **new** Scanner(System.***in***);    //Read file name from user  System.***out***.println("Enter file name to delete:");  fileName= obj.nextLine();    //Deleting the file  **boolean** isDeleted = FileManager.*deleteFile*(***folderpath***, fileName);    **if**(isDeleted)  System.***out***.println("File deleted successfully");  **else**  System.***out***.println("File not found! Enter valid file name.");  }    /\*\*  \* This method is to search the file.  \*/  **public** **static** **void** searchFile()  {  //Variable Declaration  String fileName;  Scanner obj = **new** Scanner(System.***in***);  //Read file name from user  System.***out***.println("Enter file name to searched:");  fileName= obj.nextLine();    //Searching the file  **boolean** isFound = FileManager.*searchFile*(***folderpath***, fileName);    **if**(isFound)  System.***out***.println("File is present");  **else**  System.***out***.println("File not present.");  }  } |