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| **LockedMe.Com**  **(Project Specifications and Sprint Work)** |

**Version History:**

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| --- | --- |
| Developer | Swathi Suheal J I |
| Purpose | Application Screenshots |
| Date | 10th August 2021 |
| Version | 1.0 |

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## Project Git Hub Link:

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| Repository Name: JavaPhase1 |
| GIT HUB Link: https://github.com/SwathiJI/JavaPhase1.git |

## Modules in the project

* + - Display all files
    - Add files
    - Delete files
    - Search files

## Java Technologies Used

* Working with files
* Naming Standards
* Object Oriented Programming Language
* Modularity
* Collection
* Exception Handling
* Control Structures
* Looping
* Array concepts
* Data structures

## Sprint Wise Work

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| --- | --- |
| Sprint Number | Module |
|  | Display file  Add file |
|  | Delete file  Search file |

## Story.

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| --- | --- |
| Display Files | 1. It displays all the files present in folder 2. All the files are sorted in ascending order. 3. Exception handling managed. |
| Add Files | 1. This module uses scanner function to read user input and creates new file in the selected file path. 2. Displays the message if file is added successfully. |
| Delete Files | 1. Checks with user which file needs to be deleted. 2. This function is not case sensitive. 3. Checks for the file in folder and deletes the file. 4. If file is not present it throws file not found message |
| Search Files | 1. This module also takes user input and searches appropriate files in the folder. 2. This function is also not case sensitive. |

## 4.Project Code

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| Folder Structure. |
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| FileManagement.java package com.lockedme;  import java.io.File;  import java.io.FileWriter;  import java.util.ArrayList;  import java.util.List;  public class FileManagement  {  public static List<String> getAllFiles(String folderpath)  {  //Creating File Object  File n1=new File(folderpath);    //Getting all the files into FileArray  File[] listoffiles = n1.listFiles();    //Declare a List to Store File Names  List<String> fileNames = new ArrayList<String>();    for(File n:listoffiles)  fileNames.add(n.getName());    //Return the List  return fileNames;  }    /\*\*  \* This method will create or append the content into the specified files  \* @param folderpath  \* @param fileName  \* @param content  \* @return boolean  \*/  public static boolean addFiles(String folderpath, String fileName, List<String> content)  {  try  {  //Creating File object  File n1 = new File(folderpath, fileName);  FileWriter fw = new FileWriter(n1);    //Displaying Content of the file  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 its present in the directory  \* @param folderpath  \* @param fileName  \* @return boolean  \*/    public static boolean deleteFile(String folderpath, String fileName)  {  File file = new File(folderpath+"\\"+fileName);    try  {  //Deleting the file  if(file.delete())  return true;  else  return false;  }  catch(Exception Ex)  {  return false;  }  }    /\*\*  \* This method will search the file name  \* @param folderpath  \* @param fileName  \* @return boolean  \*/  public static boolean searchFile(String folderpath, String fileName)  {  //Create the file object to search file  File file = new File(folderpath+"\\"+fileName);    //Searching File  if(file.exists())  return true;  else  return false;  }  } |
| PilotProject.java |
| package com.lockedme;  import java.util.ArrayList;  import java.util.Collections;  import java.util.List;  import java.util.Scanner;  public class PilotProject  {  static final String folderpath="D:\\Suheal\\MyPhase1 Project\\LockedMe Files";  public static void main(String[] args)  {  int proceed = 1;      do  {  //Variable Declaration  int ch;    //Display Menu  ch=displayMenu();    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 int displayMenu()  {  Scanner obj = new Scanner(System.in);  int ch;    System.out.println("\n\n--------------------------------------------------------------");  System.out.println("\t\t LockedMe.com");  System.out.println("--------------------------------------------------------------");  System.out.println("\t1. Display All Files");  System.out.println("\t2. Add New File");  System.out.println("\t3. Deleted a File");  System.out.println("\t4. Search a File");  System.out.println("\t5. Exit");  System.out.println("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");  System.out.println("Enter your choice");  ch = Integer.parseInt(obj.nextLine());    return ch;  }    public static void getAllFiles()  {  //Getting File Names  List <String> fileNames =FileManagement.getAllFiles(folderpath);      if(fileNames.size()==0)  System.out.println("No Files in the directory");  else  {  //Sorting Files  Collections.sort(fileNames);    for(String n:fileNames)  {  //Printing sorted file List  System.out.println(n);  }  }  }    public static void createFiles()  {  //Add File Code  //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 lines are there 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 = FileManagement.addFiles(folderpath, fileName, content);    if(isSaved)  System.out.println("File and Data Saved Successfully");  else  System.out.println("Error while creating files. Please Contact Admin@Locedme.com");  }    public static void deleteFile()  {  //Code for deleting the file  String fileName;  Scanner obj = new Scanner(System.in);    //Read the Content from user to delete the file  System.out.println("Enter the file name to be deleted:");  fileName = obj.nextLine();    //Displaying if the entered file is deleted  boolean isDeleted = FileManagement.deleteFile(folderpath, fileName);      if(isDeleted)  System.out.println("File deleted successfully");  else  System.out.println("File not Found");  }    public static void searchFile()  {  //Code for Searching the file  String fileName;  Scanner obj = new Scanner(System.in);  System.out.println("Enter the file name to be searched:");  fileName = obj.nextLine();    //Is the Entered file present in the directory  boolean isFound = FileManagement.searchFile(folderpath, fileName);    if(isFound)  System.out.println("File is present in the folder");  else  System.out.println("File not Found");  }  } |