Lockedme.com

Application Source Code

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Purpose	Application Source Code
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Version	1

```
package phase1Project;
import java.util.Scanner;
import java.io.File;
import java.io.FileWriter;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.List;
public class PrototypeV1 {

	public static void main(String[] args) {

	// We Start the prototype calling the landing page and from there we take the users input for what he wants to do

		landingPage();

		}

	// The Methods to be used in the prototype


	 /**
	  * this method will show the landing page and ask the user to choose from the landing page
	  */
	 static void landingPage() {

		// Printing the Prototype Landing Page and asking the user for an input
```

```
        System.out.println("**********************************************************************
********************");

        System.out.println("**********************************************************************
********************");
                System.out.println();
                System.out.println();
                System.out.println();
                System.out.println("                    lockedme.com");
                System.out.println();
                System.out.println();
                System.out.println("              Please choose from the options below");
                System.out.println("                  1-To view the files");
                System.out.println("                  2-To Control the files");
                System.out.println("                  3-To Close the application");
                System.out.println();
                System.out.println();
                System.out.println("               Devolped by : Lockers Pvt. Ltd.");
                System.out.println();
                System.out.println();
                System.out.println();

        System.out.println("**********************************************************************
********************");

        System.out.println("**********************************************************************
********************");
```

```
        // Identifying the variable to be used in choosing the option and reading input from user
        Scanner obj = new Scanner(System.in);
        int mainch = Integer.parseInt(obj.nextLine());

        // switch case to choose from the landing page

                switch (mainch) {
                // case 1 will print out all of the files in the folderpath
                case 1:
                        viewFiles();
                                return;
                // case 2 will show you the control files menu to choose form
                case 2:
                        controlFiles();
                                return;
                // case 3 will exit the prototype
                case 3:
                        System.exit(0);
                                return;
                // if the input is invalid the system will show the below message
                default:
                        System.out.println("Please Enter a Valid Number");
                        landingPage();
                }


}
```

```
	/**
	 * this method prints out the control files menu and asks the user to choose what item he wants to do
	 */
	static void controlFiles () {

		// printing out the control files menu and asking the user for an input

System.out.println("**********************************************************************");

System.out.println("**********************************************************************");
		System.out.println();
		System.out.println();
		System.out.println();
		System.out.println("                    Lockers Pvt. Ltd.");
		System.out.println();
		System.out.println();
		System.out.println("              Please choose from the options below");
		System.out.println("                 1-To Add a New File");
		System.out.println("                 2-To Delete an exiciting file");
		System.out.println("                 3-To Search for a File");
		System.out.println("                 4-to get back to the main menu");
		System.out.println();
		System.out.println();
		System.out.println("               Devolped by : Abdulaziz AlHadlag");
		System.out.println();
		System.out.println();
```

```
                System.out.println();

System.out.println("**********************************************************************
**************");

System.out.println("**********************************************************************
**************");

                // Reading input from user
                Scanner obj = new Scanner(System.in);
                int contch = Integer.parseInt(obj.nextLine());

                // switch case to control the files

                switch (contch) {

                // case 1 will let the user add file
                case 1 :
                        // variable decleration
                        String fn;
                        int linescount;
                        List<String> content = new ArrayList<String>();
                        String folderpath ="C:\\Users\\hadlagak\\Desktop\\Test";

                        // read file name from the user
                        System.out.println("Enter the File name ");
                        fn=obj.nextLine();
                        //read number of lines from user
                        System.out.println("Enter how many lines in the file");
                        linescount=Integer.parseInt(obj.nextLine());
```

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            // read content from the 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 = addFile(folderpath, fn, content);
            if (isSaved) {
                  System.out.println("file and data is saved");
                  controlFiles();
            }
            else {
                  System.out.println("some error occured");
                  controlFiles();
            }
            return;
      // case 2 will let the user delete a file
      case 2:
            // variable decleration and assigning the folderpath
            String filename;
            folderpath ="C:\\Users\\hadlagak\\Desktop\\Test";
            // ask the user to enter file name
            System.out.println("enter filename to be deleted");
            filename=obj.nextLine();

            // to check if the file exict in the folder it will delete it
            boolean isDeleted = deleteFile(folderpath, filename);
            if(isDeleted) {
                  System.out.println("File is Deleted");
```

```
                controlFiles();
        }
        else {
                System.out.println("Either file is not deleted or does not exict");
                controlFiles();
        }

        return;
// case 3 allows the user to search for a file
case 3:
        // assign the folder path
        folderpath ="C:\\Users\\hadlagak\\Desktop\\Test";
        // ask the user to enter the file name
        System.out.println("enter filename to be searched for");
        filename=obj.nextLine();

        boolean isFound = searchFile(folderpath, filename);
        if(isFound) {
                System.out.println("File is present");
                controlFiles();
        }
        else {
                System.out.println("Either file is not present");
                controlFiles();
        }
        return;
// returning to the landing page
case 4:
        landingPage();
```

```
                return;

        default :
                System.out.println("Please Enter a Valid Number");
                controlFiles();
        }
}

/**
 * This method print out the file in the assigned path in ascending order
 */
static void viewFiles() {

        // Declaring the files path
        File fileDir = new File("C:\\Users\\hadlagak\\Desktop\\Test");
        // seraching the files and sorting them in ascending order
                if(fileDir.isDirectory()){
                        // declare a list to store file names
                        List<String> listFile = Arrays.asList(fileDir.list());
                        Collections.sort(listFile);
                        // printing out the results
                        System.out.println("---------------------------------------");
                        System.out.println("Here Are Your Files");
                        for(String s:listFile){
                                System.out.println(s);}}
                else{
                        System.out.println(fileDir.getAbsolutePath() + " is not a directory");
                }
                //return the user to the landing page after showing the results
```

```
                System.out.println();
                System.out.println();
                System.out.println("---------------------------------------");
                System.out.println();
                System.out.println();
                landingPage();

                }


/**
 * this method allows the user to add new file
 */
static boolean addFile (String folderpath, String fn, List<String> content) {
        try {
                // creating new file
                File fl = new File (folderpath, fn);
                FileWriter fw = new FileWriter(fl);
                // creating the content in the file
                for (String s:content)
                {
                        fw.write(s+"\n");
                }
                fw.close();
                return true;
        }
        catch(Exception Ex) {
                return false;
```

```
            }
        }

        /**
         * this method allows the user to delete an exiting file
         */
        static boolean deleteFile (String folderpath, String filename) {
            // to look for the file needed
            File file = new File(folderpath+"\\"+filename);
            try {
                // to delete the file if exict
                if (file.delete())
                    return true;
                else
                    return false;
            }
            catch (Exception Ex) {
                return false;
            }

        }

        /**
         * this method allows the user to search for an exiting file
         */
        static boolean searchFile (String folderpath, String filename) {
            // to search for the file
            File file = new File(folderpath+"\\"+filename);
            if (file.exists())
```

```
                return true;
        else
                return false;
                                        }


}
```