Phase 1 Project Source Code

```
import java.io.File;
import java.io.IOException;
import java.util.Arrays;
import java.util.Scanner;

public class LockedMe {
    static String DIRECTORY;
    File folder_name;

    public LockedMe() {
        DIRECTORY = System.getProperty("user.dir");
        folder_name = new File(DIRECTORY+"/files");
        if (!folder_name.exists())
            folder_name.mkdirs();
        System.out.println("DIRECTORY : "+ folder_name.getAbsolutePath());
    }

    private static final String WELCOME_PROMPT =
            "\n**********  LockedMe.com **********"+
                "\n********** Snehal Pardeshi**********\n";
```

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private static final String MAIN_MENU_PROMPT =
        "\nMAIN MENU - Select any of the following: \n"+
              "1 -> List files in directory\n"+
              "2 -> Add, Delete or Search\n"+
              "3 -> Exit Program";


private static final String SECONDARY_MENU_PROMPT =
        "   \nSelect any of the following: \n"+
              "   a -> Add a file\n"+
              "   b -> Delete a file\n"+
              "   c -> Search a file\n"+
              "   d -> GoBack";


void showPrimaryMenu() {
    System.out.println(MAIN_MENU_PROMPT);
    try{
        Scanner scanner = new Scanner(System.in);
        int option = scanner.nextInt();
        switch (option){
            case 1 : {
                showFiles();
                showPrimaryMenu();
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            }
            case 2 : {
               showSecondaryMenu();
            }
            case 3 : {
               System.out.println("Thank You");
               System.exit(0);
            }
            default: showPrimaryMenu();
         }
      }
      catch (Exception e){
         System.out.println("Please enter 1, 2 or 3");
         showPrimaryMenu();
      }
   }

   void showSecondaryMenu() {
      System.out.println(SECONDARY_MENU_PROMPT);
      try{
         Scanner scanner = new Scanner(System.in);
         char[] input = scanner.nextLine().toLowerCase().trim().toCharArray();
         char option = input[0];
```

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switch (option){
    case 'a' : {
        System.out.print("↳ Adding a file...Please Enter a File Name : ");
        String filename = scanner.next().trim().toLowerCase();
        addFile(filename);
        break;
    }
    case 'b' : {
        System.out.print("↳ Deleting a file...Please Enter a File Name : ");
        String filename = scanner.next().trim();
        deleteFile(filename);
        break;
    }
    case 'c' : {
        System.out.print("↳ Searching a file...Please Enter a File Name : ");
        String filename = scanner.next().trim();
        searchFile(filename);
        break;
    }
    case 'd' : {
        System.out.println("Going Back to MAIN menu");
        showPrimaryMenu();
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                break;
            }
            default : System.out.println("Please enter a, b, c or d");
        }
        showSecondaryMenu();
    }
    catch (Exception e){
        System.out.println("Please enter a, b, c or d");
        showSecondaryMenu();
    }
}

void showFiles() {
    if (folder_name.list().length==0)
        System.out.println("The folder is empty");
    else {
        String[] list = folder_name.list();
        System.out.println("The files in "+ folder_name +" are :");
        Arrays.sort(list);
        for (String str:list) {
            System.out.println(str);
        }
    }
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    }

    void addFile(String filename) throws IOException {
        File filepath = new File(folder_name +"/"+filename);
        String[] list = folder_name.list();
        for (String file: list) {
            if (filename.equalsIgnoreCase(file)) {
                System.out.println("File " + filename + " already exists at " +
folder_name);
                return;
            }
        }
        filepath.createNewFile();
        System.out.println("File "+filename+" added to "+ folder_name);
    }

    void deleteFile(String filename) {
        File filepath = new File(folder_name +"/"+filename);
        String[] list = folder_name.list();
        for (String file: list) {
            if (filename.equals(file) && filepath.delete()) {
                System.out.println("File " + filename + " deleted from " + folder_name);
                return;
```

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            }
        }
        System.out.println("Delete Operation failed. FILE NOT FOUND");
    }

    void searchFile(String filename) {
        String[] list = folder_name.list();
        for (String file: list) {
            if (filename.equals(file)) {
                System.out.println("FOUND : File " + filename + " exists at " +
folder_name);
                return;
            }
        }
        System.out.println("File NOT found (FNF)");
    }

    public static void main(String[] args) {
        System.out.println(WELCOME_PROMPT);
        LockedMe menu = new LockedMe();
        menu.showPrimaryMenu();
    }
}
```