 PHASE1\_PROJECT

package phase1.training; import java.io.File; import java.io.IOException; import java.util.Arrays; import java.util.Scanner;

public class ProjectPhase1 {

static String DIRECTORY; File folder\_name; public ProjectPhase1() {

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 \*\*";

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 data\n"+

" b -> Delete a data\n"+

" c -> Search a data\n"+ " d -> Back"; 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();

}

case 2 : { showSecondaryMenu();

}

case 3 : {

System.out.println("Thank you , Visit again");

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]; switch (option){ case 'a' : {

System.out.print(" Adding a data...Please Enter data Name:");

String filename = scanner.next().trim().toLowerCase(); addFile(filename); break;

}

case 'b' : {

System.out.print(" Deleting a data...Please Enter data Name:");

String filename = scanner.next().trim(); deleteFile(filename);

break;

}

case 'c' : {

System.out.print(" Searching a data...Please Enter data Name:");

String filename = scanner.next().trim(); searchFile(filename);

break;

}

case 'd' : {

System.out.println("Going Back to MAIN menu"); showPrimaryMenu(); 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("No files found");

else {

String[] list = folder\_name.list();

System.out.println("The data's in "+ folder\_name +" are :"); Arrays.sort(list); for (String str:list) {

System.out.println(str);

}

}

}

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("data " + filename + " already exists at "+folder\_name);

return;

}

}

filepath.createNewFile();

System.out.println("data "+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("data " + filename + " deleted from " +folder\_name);

return;

}

}

System.out.println("FILE NOT FOUND");

}

void searchFile(String filename) { String[] list = folder\_name.list(); for (String file: list) { if (filename.equals(file)) {

System.out.println("FOUND : data " + filename + " exists at "+folder\_name);

return;

}

}

System.out.println("Data NOT Found (DNF)");

}

public static void main(String[] args) {

System.out.println("Developer Name: Abbas"+WELCOME\_PROMPT); ProjectPhase1 menu = new ProjectPhase1(); menu.showPrimaryMenu();

}

}