**Project One**

**Problem Statement**

Company Locker Prt LTD. Want to digitize their product by using existing technology software.

**Target**

Creating application prototype.

**Technology used**

Java Programming, GitHub

**Main idea of application**

There are three phases were followed.

Phase one:

* Retrieving all file names in the current directory as an ascending order.

Phase two:

* Adding a user specified file to current directory.

Phase Three:

* Deleting a user specified file from current directory.

Agile Methodology

1st Sprint

* Writing code by using Eclipse IDE to perform phase one.
* Testing the code output.
* If accepted outcomes, then move to second sprint otherwise fix bugs.

2nd Sprint

* Writing code as extended to code which has finished in first sprint to perform phase two.
* Testing the code output.
* If accepted outcomes, then move to second sprint otherwise fix bugs.

3rd Sprint

* Testing whole code (program) for ensure all outcomes.
* If accepted outcomes, then move to second sprint otherwise fix bugs.

**Flow Chart**

Getting specified Path

If incorrect path

If correct path

Print Message as Invalid value

Extracting all files in the current directory and printing as an ascending order

Getting specified file name

For creating a new file

If incorrect file

If file not exist

Print Message as file already existed

Creating new file in current directory

Getting specified file name

For deleting the file

If exists

If file not exist

Deleting specified file

Print message as file not existed

Closing Program

**Source Code**

package projcectOne;

import java.io.\*;

import java.util.\*;

public class DigitizedProduct {

static void currentFiles( ) {

// printing a list of files in current directory as ascending order

System.out.println("Do you want to know all items in current dirctory?");

Scanner scanner = new Scanner( System.in );

System.out.println("Enter the file path: ");

String dirPath = scanner.nextLine(); // Takes the directory path as the user input

File folder = new File(dirPath);

if(folder.isDirectory())

{

File[] fileList = folder.listFiles();

Arrays.sort(fileList);

System.out.println("\nTotal number of items present in the directory: " + fileList.length );

// Lists only files since we have applied file filter

for(File file:fileList)

{

System.out.println(file.getName());

}

// Creating a filter to return only files.

FileFilter fileFilter = new FileFilter()

{

@Override

public boolean accept(File file) {

return !file.isDirectory();

}

};

fileList = folder.listFiles(fileFilter);

// Sort files by name

Arrays.sort(fileList, new Comparator()

{

@Override

public int compare(Object f1, Object f2) {

return ((File) f1).getName().compareTo(((File) f2).getName());

}

});

//Prints the files in file name ascending order

System.out.println("\nAll File Names in Directory ascending order:\n");

for(File file:fileList)

{

System.out.println(file.getName());

}

}

else

{

System.out.println("\nSorry, you entered an incorrect path.");

}

// scanner.close();

}

**static void addingFile()**

**// creating new file to current dirctory**

**{**

**Scanner scanner = new Scanner( System.in );**

**System.out.println("\nAdding file to existing directory list");**

**System.out.println("Enter file name: ");**

**File newFile = new File(scanner.nextLine());**

**try**

**{**

**if (newFile.createNewFile()) {**

**System.out.println("New file is created");**

**}**

**else {**

**System.out.println("You entered existed file name");**

**}**

**} catch (IOException e) {**

**// TODO Auto-generated catch block**

**e.printStackTrace();**

**}**

**}**

**static void deletingFile()**

**{**

**System.out.println("\nDeleting file from existing directory list");**

**System.out.println("Enter file name: ");**

**Scanner scanner = new Scanner( System.in );**

**File newFile = new File(scanner.nextLine());**

**boolean b = newFile.delete();**

**if (b) {**

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

**}**

**else {**

**System.out.println("Last file you entered stil existed, you enter invalid file name");**

**}**

**System.out.println("\nThe application is exist now");**

**}**

**public static void main(String[] args) throws IOException {**

**currentFiles();**

**addingFile();**

**deletingFile();**

**}**

**}**