Internship Week (1) Day 2 Task

Step 1: Setting Up IntelliJ IDEA

- 1. Open IntelliJ IDEA.
- 2. Create a New Project:
 - Click on File > New > Project.
 - Select Maven on the left side.
 - Check Create from archetype if you need a predefined structure.
- 3. Advanced settings Details:
 - o GroupId: com.tripillar.filehandling
 - o ArtifactId: FileHandlingProject
 - Version: Leave default (or 1.0-SNAPSHOT).
 - o Click Finish.

Step 2: Adding Apache POI Dependency for Excel Handling

- 1. **Open the pom.xml file** from the project root.
- 2. Inside <dependencies>, add the following dependencies for Apache POI (for Excel handling):

```
Pom.xml
```

<!-- For parsing XSSF files (Excel 2007+) -->

3. **Reload Maven** to download the dependencies: You can press the Reload button in the Maven tool window.

Step 3: Creating Package Structure

- 1. In the src/main/java folder, right-click and create two packages:
 - o com.tripillar.filehandling.text
 - o com.tripillar.filehandling.excel

Step 4: Writing Code for Text File Handling

a. WriteTextFile.java

- 1. Inside the text package, create a new Java class WriteTextFile.java.
- 2. Write code to create and write to a text file using BufferedWriter and FileWriter:

```
java

package com.tripillar.filehandling.text;

import java.io.BufferedWriter;

import java.io.FileWriter;
```

import java.io.IOException;

```
public class WriteTextFile {
  public static void main(String[] args) {
    String fileName = "example.txt";
    try (BufferedWriter writer = new BufferedWriter(new FileWriter(fileName))) {
        writer.write("Hello, this is a sample text.");
        System.out.println("Text file written successfully.");
```

```
} catch (IOException e) {
      e.printStackTrace();
    }
  }
}
b. ReadTextFile.java
   1. Create another Java class ReadTextFile.java.
   2. Write code to read from a text file using BufferedReader and FileReader:
java
package com.tripillar.filehandling.text;
import java.io.BufferedReader;
import java.io.FileReader;
import java.io.IOException;
public class ReadTextFile {
  public static void main(String[] args) {
    String fileName = "example.txt";
    try (BufferedReader reader = new BufferedReader(new FileReader(fileName))) {
      String line;
      while ((line = reader.readLine()) != null) {
         System.out.println(line);
      }
    } catch (IOException e) {
      e.printStackTrace();
    }
  }
}
```

Step 5: Writing Code for Excel File Handling

a. WriteExcelFile.java

1. Inside the excel package, create a Java class WriteExcelFile.java.

2. Write code to create an Excel file using Apache POI:

```
java
package com.tripillar.filehandling.excel;
import org.apache.poi.ss.usermodel.*;
import org.apache.poi.xssf.usermodel.XSSFWorkbook;
import java.io.FileOutputStream;
import java.io.IOException;
public class WriteExcelFile {
  public static void main(String[] args) {
    String fileName = "example.xlsx";
    Workbook workbook = new XSSFWorkbook();
    Sheet sheet = workbook.createSheet("SampleSheet");
    // Creating a row and adding data
    Row row = sheet.createRow(0);
    row.createCell(0).setCellValue("Name");
    row.createCell(1).setCellValue("Age");
    Row row1 = sheet.createRow(1);
    row1.createCell(0).setCellValue("John Doe");
    row1.createCell(1).setCellValue(25);
```

```
// Writing to file
    try (FileOutputStream fileOut = new FileOutputStream(fileName)) {
      workbook.write(fileOut);
      System.out.println("Excel file written successfully.");
    } catch (IOException e) {
      e.printStackTrace();
    }
  }
}
b. ReadExcelFile.java
   1. Create another Java class ReadExcelFile.java in the excel package.
   2. Write code to read from an Excel file:
java
package com.tripillar.filehandling.excel;
import org.apache.poi.ss.usermodel.*;
import org.apache.poi.xssf.usermodel.XSSFWorkbook;
import java.io.FileInputStream;
import java.io.IOException;
public class ReadExcelFile {
  public static void main(String[] args) {
    String fileName = "example.xlsx";
    try (FileInputStream fis = new FileInputStream(fileName);
       Workbook workbook = new XSSFWorkbook(fis)) {
      Sheet sheet = workbook.getSheetAt(0);
```

```
for (Row row : sheet) {
         for (Cell cell: row) {
           switch (cell.getCellType()) {
             case STRING:
                System.out.print(cell.getStringCellValue() + "\t");
                break;
             case NUMERIC:
                System.out.print(cell.getNumericCellValue() + "\t");
                break;
           }
         }
         System.out.println();
      }
    } catch (IOException e) {
      e.printStackTrace();
    }
  }
}
```

Step 6: Running the Project

- 1. Right-click on each file and choose Run.
- 2. Ensure that both the text file and Excel file operations work as expected.

Step 7: GitHub Submission

1. Initialize Git in your project directory:

```
git init
git add .
git commit -m "Initial commit - File Handling Project"
```

- 2. Create a new repository on GitHub.
- 3. Push your project to GitHub:

BHARATH GOWDA A	1NH23MC033
git remote add origin <your-repo-url></your-repo-url>	
git push -u origin main	
Challenges faced :	
 While adding maven dependencies I got some error then I resolved that problems. While coding and giving naming conventions we faced some problem then we resolved 	ł it.
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