EU Fast Track Selenium Day 6

▼ Apache POI

> Apache POI, **provides pure Java libraries for reading and writing files in Microsoft Office formats, such as Word, PowerPoint and Excel**

- Helps us to connect MS files (mostly Excel files)

- Excel hierarchy: **Workbook** > Worksheet > **Row** > Cell

- We have to use different class for different files:

  - XSSFWorkbook -> xlsx (newer version of Excel files)

  - HSSFWorkbook -> xls (older version of Excel files)

- How to read Excel files?

```
String path = "SampleData.xlsx";
FileInputStream fileInputStream = new FileInputStream(path);
XSSFWorkbook workbook = new XSSFWorkbook(fileInputStream);
XSSFSheet sheet = workbook.getSheet("Employees");
sheet.getRow(1).getCell(1);
```

- How to write data to Excel file?

```
FileInputputStream fis = new FileInputputStream("Employees.xlsx");
XSSFWorkbook workbook = new XSSFWorkbook(fis);
XSSFSheet sheet = workbook.getSheetAt(0);
XSSFCell cell = sheet.getRow(0).createCell(3);
cell.setCellValue("Salary");

// to save changes
FileOutputStream outputStream = new FileOutputStream(filePath);
workbook.write(outputStream);

// close stram and workbook
outputStream.close();
workbook.close();
in.close();
```

- Some methods:

```
1. getPhysicalNumberOfRows()
   find the number of rows
   start counting from 1, not 0
   it will not count empty rows

2. getLastRowNum()
   it starts counting with 0
   counts empty rows too
```

▼ Re run

- We re run our test to see if it's a real bug or caused by us

- How to implement?

```
we add a new plugin to our existing CukesRunner class.
"rerun:target/rerun.txt"

This plugin will collects the failed test to a file called "rerun.txt"

Then we create a new Runner class called FailedTestRunner
@RunWith(Cucumber.class)
@CucumberOptions(
        plugin = {"html:target/failed-html-report"},
        features = "@target/rerun.txt",
        glue = "step_definitions"
)
public class FailedTestRunner {
}

After we run CukesRunner class, if there is any faild tests, we will run
FailedTestRunner class only to rerun our failed tests.
```

▼ HTML Report

- We already have reports coming from `html:target/default-html-reports` plugin.

- But we can have more detailed report

```
add below dependency to the pom file
      <dependency>
          <groupId>me.jvt.cucumber</groupId>
          <artifactId>reporting-plugin</artifactId>
          <version>7.2.0</version>
```

```
        </dependency>

Also you have to update your cucumber dependency to the latest version
```

- The reports are in target/cucumber path