ReportSystem project Report

A very simple report with screenshot result.

In this project, I implemented the following api:

1. **List** all files: @GetMapping("/excel")
2. **generate** single sheet excel file - @PostMapping(“/excel”)
3. **multiSheet file generation**: - @PostMapping(“/excel/auto”)
4. **delete file**: @DeleteMapping("/excel/{id}")
5. **download a file**: @GetMapping("/excel/{id}/content")
6. batch generation : @PostMapping(path = "/excel/batch")
7. batch generation : @PostMapping(path = "/excel/batch")

Please see the screenshot result on the next page.

I also process those aspects:

1. Log: write into the log if get any responses or exceptions
2. ExceptionHandling: Write ApplicationException for all RuntimeException(NOT\_FOUND)
3. Validation: valid the json data and splitBy key word for multiSheet api
4. ThreadSafety: when download the file, set synchronize keyword and close the stream with finally keyword. when store the file, I think it should be thread safe(If the duplicate name, I still store it with random filename).
5. Testing:
6. In applicationTest - 4 tests: testExcelGeneration, testGetFile, testDeleteFile and testSaveBatchofFiles. All test passed.
7. APITest – 6 tests: testFileDownload(Pass), testListFiles(Pass), testDeleteFile(Pass), testDownloadZip(Pass); testExcelGeneration(Fail), testExcelGenerationMultiSheet(Fail) and testBatchGeneration(Fail);

*The 3 failed tests due to JSONParser and nullPoint exception problem. I didn’t fix it right now.*

A screenshot of a cell phone

Description automatically generatedA picture containing drawing

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1. Before any file stored, there are no files in the repository.

**List** all files: @GetMapping("/excel")

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1. **generate** single sheet excel file - @PostMapping(“/excel”)

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1. **multiSheet file generation**: - @PostMapping(“/excel/auto”)

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1. **delete file**: @DeleteMapping("/excel/{id}")

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1. **download a file**: @GetMapping("/excel/{id}/content")

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1. batch generation : @PostMapping(path = "/excel/batch")

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1. batch downloading: @GetMapping("/excel/downloadZip")

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