

ODSOFT 2021/2022 – Project self-assessment

TEAM ID: G4_0_1

Instructions: Please mark put an X on the non-greyed column that better reflects your project's item achievement. Fill the gaps (_____) when appropriate.

Analysis Grading: 0 – No Submission; 1 – Attempt; 2 – Achieves Sufficiently 50%; 3 – Achieves partially, includes justification for main options; 4 – Achieves completely with justifications and alternatives.

Requirements Grading: 0 – No Submission; 1 – Attempt; 2 – Achieves Sufficiently; 3 – Achieves with Minor Faults; 4 – Achieves completely including advanced topics.

Description	Analysis					Requirements				
	0	1	2	3	4	0	1	2	3	4
2.1 Base Pipeline – Overall Grading										
<ul style="list-style-type: none"> The overall pipeline should be designed. This includes a high-level design for all the concerns; 										
<ul style="list-style-type: none"> The design should include a description of the process, including the Git organization (i.e., branching model) model to be adopted and how it relates to the pipeline; 										
<ul style="list-style-type: none"> The application should be completed with the specific features for the project: 										
<ul style="list-style-type: none"> o Book concept; (or entity 1); 										
<ul style="list-style-type: none"> o Bookmark concept; (or entity 2); 										
<ul style="list-style-type: none"> o Tag concept; (or entity 3); 										
<ul style="list-style-type: none"> o Lease concept; (or entity 4); 										
<ul style="list-style-type: none"> o Book cannot be leased to different contacts at the same time; (or constraint 1); 										
<ul style="list-style-type: none"> o Contacts cannot lease more than three books at a time: (or constraint 2); 										
<ul style="list-style-type: none"> o Tags with the same description should not be allowed; (or constraint 3); 										
<ul style="list-style-type: none"> Unit tests are implemented, Unit Tests Report and Coverage Report are published on Jenkins; 										
<ul style="list-style-type: none"> Pit Mutation tests (or similar) are executed, and Mutation Coverage Report is published on Jenkins; 										
<ul style="list-style-type: none"> Generate the Project Report PDF file from your project's Readme.md. You may choose the technology to use. 										
<ul style="list-style-type: none"> Used technology to generate PDF: <u>MarkdownToPdfTask</u> 										
<ul style="list-style-type: none"> The pipeline works both on Windows and Linux operating systems; 										
<ul style="list-style-type: none"> Classify your final project according to the Maturity Model; 										
<ul style="list-style-type: none"> Implement the pipeline for the specifics of this concern. The base pipeline implementation should also include all the features addressed in Class Assignment – Part Two, using parallel stages when suitable. Which steps are run in parallel? 										
<ul style="list-style-type: none"> <u>Run unit tests</u>, <u>Run integration</u>, <u>Run Javadoc</u>, _____, _____; 										
<ul style="list-style-type: none"> <u>Run checkstyle</u>, <u>Run SpotBugs</u>, _____, _____, _____; 										
<ul style="list-style-type: none"> <u>Publish unit tests</u>, <u>Publish integration tests</u>, <u>Publish mutation tests</u>, <u>Publish Javadoc</u>, <u>Publish jacoco</u>, <u>Publish Checkstyle</u>, <u>Publish spotbugs</u> 										
<ul style="list-style-type: none"> _____, _____, _____, _____, _____; 										
<ul style="list-style-type: none"> _____, _____, _____, _____, _____; 										

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Description	Analysis					Requirements				
	0	1	2	3	4	0	1	2	3	4
2.2 Documentation and Database – Overall Grading Student # 1210107 Name: Jorge Gonçalves				●					●	
• The specific stages for this concern of the pipeline should be designed;				●						
• Implement the pipeline for the specifics of this concern. Analysis results must be published and explicitly discussed in the project report;				●					●	
• The application should have a persistence layer that must use a relational database. You may choose the technology to use for this non-functional requirement; In the CMS case, it should use an SGBD running on a different system than the CMS web application using containerisation.			●					●		
• Used SGBD: <u>H2</u>										
• Generate and archive the project's Moodle zip submission file, containing the Project Report PDF, the Jenkinsfile and the generated artefacts for the build (e.g., Javadoc, reports, etc – excluding all temporary files);					●					●
○ Jenkinsfile										●
○ Project Report PDF										●
○ Artefacts (please detail)										●
▪ <u>source code</u> ;										●
▪ <u>documentation</u> ;										●
▪ <u>tests</u> ;										●
▪ <u>gradle</u> ;										●
▪ _____;										
▪ _____;										
▪ _____;										
▪ _____;										
▪ _____;										
▪ _____;										
▪ _____;										
• The pipeline works both on Windows and Linux operating systems;										●
• Advanced requirement: The chosen application should be adapted to foreseen third-parties version releases. In the CMS case, explicitly document and adapt the current CMS solution for supporting Gradle's (v. 6.9.1 or superior (7.3)) latest release and latest JDK's release (v. 11 or superior).			●					●		

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[illegible]

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Project Report – Overall Grading										
<ul style="list-style-type: none"> Evidences of continuous building of the pipeline (build history with increasing stages) 										
<ul style="list-style-type: none"> Specifies the details of the design 										
<ul style="list-style-type: none"> Specifies the technical details of the implementation 										
<ul style="list-style-type: none"> Provides analysis of possible alternatives and the justification of the options. 										
Teamwork Effort										
<ul style="list-style-type: none"> Student # 1180813 ; Accomplishment % 45 ; (The sum of all percentages should equal 100%) 										
<ul style="list-style-type: none"> Student # 1210107 ; Accomplishment % 55 ; (The sum of all percentages should equal 100%) 										
<ul style="list-style-type: none"> Student # ; Accomplishment % ; (The sum of all percentages should equal 100%) 										
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