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| **Review Form** | | | |
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|  | **Document Title:** | **LabAssiAsseRequirements.pdf** | |
|  | **Reviewer Name:** | Cristian Serban, Eduard Stef | |
|  | **Review date:** | **19.03.2023** |  |
|  |  |  |  |
| **Crt. No.** | **Checked Item** | **Doc. page/line** | **Comments/ improvements** |
| 1 | D\_01 | Page 4, FR6.0 | No definition for motivation to understand what is asked |
| 2 | D\_01 | Page 4, FR7.0 | No definition for criteria to understand what is asked |
| 3 | D\_06 | Page 4, FR1.1 | Laboratory theme definition should be specified |
| 4 | D\_03 | Page 4, FR6.0 | Requirement describes two requirements. |
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|  | **Effort to review document (hours): 2** | |  |

Requirements Phase Defects

Unit Design Phase Defects

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| **Review Form** | | | |
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|  | **Document Title:** | **Project\_AnalysisDesignDocument\_LabAssiaseProjectV01**  **.docx** | |
|  | **Reviewer Name:** | **Stef Eduard, Serban Cristian-George** | |
|  | **Review date:** | **19.03.2023** |  |
|  |  |  |  |
| **Crt. No.** | **Checked Item** | **Doc. page/line** | **Comments/ improvements** |
| 1 | D\_02 | Page 3, Line 1 | Missing functional requirements |
| 2 | D\_01 | Page 3, Line 3 | Incomplete error handling description and no specificatons on the error messages. |
| 3 | D\_01 | Page 3, Line 3 | No descriptions about how the initial values of the fields should be initialized |
| 4 | D\_06 | Page 6, Diagram | There should not be an aggregation between service and repository in that direction. |
| 5 | D\_07 | Page 8, Add Diagram | The Sequence diagram is not correct since a new course should not be created when adding a new student. |
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|  | **Effort to review document (hours): 2** | |  |

Coding Phase Defects

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| **Review Form** | | | |
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|  | **Document Title:** | Project\_AnalysisDesignDocument\_LabAssiA sseProjectV01.docx | |
|  | **Reviewer Name:** | Cristian Serban, Eduard Stef | |
|  | **Review date:** | **19.03.2023** |  |
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| **Crt. No.** | **Checked Item** | **Doc. page/line** | **Comments/ improvements** |
| 1 | D\_07 | 3-4 | The error handling for the first two use cases is inconsistent. When a string value is provided instead of an integer (for example, for the student's group), the application crashes. |
| 2 | D\_07 | 5/4.3 | The source code for the Student entity is incomplete as it lacks the attributes for email and professor name. |
| 3 | D\_01 | 5/4.5 | The validator classes need to be modified to raise exceptions that include all the errors associated with the entity fields. Currently, they follow a first-come-first-served approach where only the first error encountered is displayed to the user. |
| 4 | D\_04 | 5/4.5 | Both success and error messages are displayed when the validation of an entity fails. |
| 5 | D\_07 | 6 | The class diagram requirements are not fully met as the source code contains specialized repositories and XML files that are not represented in the class diagram. |
| 6 | D\_07 | 8 | Changing from an XML repository to a different type, such as a file repository, requires multiple code modifications because the service repository fields are of the XML Repo type. This violates several GRASP principles, including low coupling and polymorphism, as specified in the analysis document. It is recommended to use polymorphism and keep references to abstract CRUD repository classes instead to address these issues. |
| 7 | D\_07 | 8 | Ideally, the serialization and deserialization of entities should not be the responsibility of the repository. To address this, a possible approach is to use the Strategy design pattern. |
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|  | **Effort to review document (hours): 2** | |  |