

## Unit Design Phase Defects

## Review Form

<b>Document Title:</b>	
<b>Reviewer Name:</b>	<b>Cionte Bianca, Nedelcu Dania, Petriuc Cosmin</b>
<b>Review date:</b>	<b>16/03/2025</b>

<b>Crt. No.</b>	<b>Checked Item</b>	<b>Doc. page/line</b>	<b>Comments/ improvements</b>
1	D_01	PDF line 4-5	Overall organization of the program is not clear(constructor of Student doesn't have the professor's id). The Student's id is said to be a number in the req but it is a string in code.
2	D_03	PDF line 4-5	The error handling strategy is not coherent because it only checks if the fields are not empty. It should check if the email has: "@gmail.com" and if the datatypes are valid. Or if a user enters a duplicate id.
3	D_06	Service: 26	The service should use an object of a generic repository in order to accommodate changes for the two different types of repo: XML and File
4	D_02	PDF	The system must specify that an email is sent to the student in order to validate the email
5	D_02	Service: 246	calculeazaSPredare() uses ChronoUnit.DAYS.between() but does not handle cases like holidays.
6	D_04	Service: 162	The Observer design pattern could be used to notify students when a grade is added
7	D_02	3. Use cases-diagram	The teacher should be allowed to extend the deadline of the assignment
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<b>Effort to review document (hours):</b>
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1	D_01	Service	Violation of the Single Responsibility Principle. The service performs: validation, writing to files, makes computations
2	D_06	Service: 26,27,29	The naming of XML repositories as (studentFileRepository for StudentXMLRepo) is misleading
3	D_04	Service: 126	BufferedWriter.write(): The filename "fisiere/" + student.getNume() + ".txt" may cause errors if student.getNume() contains special characters
4	D_06	StudentValidation: 20	the condition if(entity.getNume() == "") should use .equals("") for proper string comparison
5	D_05	Service: 234	There is no validation to check whether the writeToFile() operation was successful
6	D_02	Service: 168	This only allows late submissions if students are exactly one week late but does not account for later submissions
7	D_01	Service: 232	The deadline validation allows strange behavior. We should ensure the new deadline is >= to the current deadline, that it does not exceed the allowed max or it isn't in the past
8	D_01	Service: 145,163	The validate() method throws a ValidationException, but in addNota(), updateTema() we don't explicitly catch and handle this exception
9	D_01	Service: 261	The computation of the semester's week is not correct in the calculeazaSPredare() function
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