## **Formative Assessment Guidelines**

This matrix is to give you in-sight to the guidelines your teachers use to give you feedback related to the learning outcomes (LOs). Note: your teacher can deviate from this matrix based on your situation.

		101	LO2	LO3	LO4	105	L06	1.07
	ŀ	Justify stakeholder feedback	Communication	Analysis and design	OO Concepts	Algorithms	Databases	Code quality
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		No explanation is given about made decisions.		No documentation is delivered (e.g. no project plan, UML Class Diagram,	Delivered implementation(s) use single class (or none).	Delivered application(s) contain only simple CRUD functionalities	No database(s) delivered	Git is not used during development.
Un	defined		You rarely meet the expected deadlines from the teachers with the expected deliverables.	Ideation Document, URS, etc.).	No application is delivered using ASP.NET Core Razor Pages.			Nothing is delivered related to testing (e.g. unit tests, test plan or test report).
			active asies.					
			During collaboration with peers, no feedback is given by you.					
$\vdash$		Incomplete explanation is given about made decisions but it is superficial and	Most of the time you are present during lectures, practical, demos and meetings,	Expected documentations are delivered, but the content is incomplete and	Delivered implementation(s) use multiple classes but they are not really	Delivered application(s) contain simple CRUD functionalities with simple input	Expected database(s) are delivered but contain big mistakes such as missing	Git is used during development for both individual as collaboration projects, but
			but non-responsive/passive.	contains mistakes. For example:		validation (e.g. non empty, handling wrong types, etc.).	tables, not correctly normalized, missing keys, missing relationships, etc.	the commits are minimal.
		contains mistakes (e.g. terms used without relating them to the deliverables).	but non-responsive/passive.	*		valuation (e.g. non empty, nanuling wrong types, etc.).	tables, not correctly normalized, missing keys, missing relationships, etc.	the commits are minimal.
		Marth. facilities and the control of	86-4-646-45	- Project plan is missing expected chapter(s).	classes, etc.).		Application(s) contain come accessing to confirm CRUD actions but are still	Delicered and instinctor(s) and the contribution to the
Ori	ienting		Most of the time you meet the expected deadlines from the teachers with the	- UML Class Diagram(s) contain format mistakes and simple OO principles are	Be a Brown of the first of the state of the		Application(s) contain some queries to perform CRUD actions, but are still	Delivered application(s) contain unit tests but do not cover all the units in the
- 1			expected deliverables.	applied (i.e. associations, inheritance) with mistakes;	Razor Page application(s) are delivered with only the views containing the static		incomplete.	logic layer and/or incomplete.
- 1				- URS is still unfinished and/or written from the wrong perspective (e.g. not sea	content.			
			During collaboration with peers, feedback given by you to peers are shallow and	level UCs, missing UC components, etc.).				A test plan is created for the 'synthesis assignment' & project, but the test cases
			not really usable to receiver to improve/keep positive points.					are incomplete /missing details to perform the tests.
		Explanation given about made decisions are explicit but still contain mistakes	You are present during lectures, practical, demos and meetings, but often	Expected documentations are delivered, but the content is incomplete/lacking.	Delivered implementation(s) match most of the UML Class Diagram design, if	Delivered application(s) contain CRUD functionalities with proper input	Expected database(s) are delivered, but sill contains minor mistakes or do not	Git is used during development for both individual and collaboration projects,
- 1		and the student does not always realize it during feedback.	unable to answer question when queried.	For example:	any, and applies simple OO principles (i.e. correct usage of associations,	validation (e.g. non empty, uniqueness, handling wrong types, ranges, simple	support the code design (e.g. missing intersection tables, tables to store	but during collaboration no branching is used and it is hard to trace back who did
				- Project plan contains expected chapters but information included is missing	encapsulation, inheritance, polymorphism).	regular expressions, etc.).	inheritance, etc.).	what.
		Most of the feedback has been incorporated, but similar mistakes are repeated	You meet the expected deadlines from the teachers with the expected	details to allow all stakeholders to understand the context of the project, what				
		ater on	deliverables.	will be delivered and how it can successfully be achieved.	Razor Page application(s) are delivered but do not always make use of the		Application(s) contain all queries for CRUD actions, but are sub-optimal (e.g.	Delivered application(s) contain unit tests to test units in the logic layer but only
Be	ginning			- UML Class Diagram(s) only have simple OO principles applied (i.e. associations,	framework's build-in functionalities covered during WAD (e.g. layout, input		using code to join data instead of using queries for joins, retrieving primary key	cover the happy-flow.
	-		During collaboration with peers, feedback given by you to peers are shallow and		validation, model binding, etc.).		with a select max(id), etc.).	
			not really usable to the receiver to improve/keep positive points.	- URS contains all the expected FRs and/or UCs, but there are still (minor)				A test plan is created for the 'synthesis assignment' & project, but the test cases
			, ,	mistakes (e.g. missing exceptions/extensions, constraints, etc.) and inconsistency			Querying the database via an application is sub-optimal, e.g. multiple queries	only cover the happy-flow.
				between the FRs/UCs/application (e.g. login as FR but no UC, UC about updating			should be combined into one.	,
				expects unexpected data when considering UC about adding, etc.).				
		Explanation given about made decisions are explicit but during feedback sessions	You are present during lectures, practical, demos and meetings and, when		Delivered implementation(s) match most of the class diagram design, if any, and	Delivered application(s) contain simple CRUD functionalities with proper input	Expected database(s) are delivered to support the application(s), but sill contain	Git is used during development for both individual and collaboration projects.
		minor mistakes are discovered which the student is able to correct after minimal		- Project plan contains expected chapters and allows all stakeholders to	apply intermediate OO principles (i.e. correct usage of associations,	validation (e.g. non empty, uniqueness, handling wrong types, ranges, regular	minor mistakes.	but a basic branching strategy is used (e.g. a branch for each developer), and,
		hints from the teacher	required, is usic to driswer questions.	understand the context of the project, what will be delivered and how it can	encapsulation, inheritance, polymorphism, layered design and SRP).	expressions, etc.).	Timor miscancis.	during collaboration, it is possible to trace back who did what.
			You meet the expected deadlines from the stakeholders (teachers and peers)	successfully be achieved.	cheapsdation, milentance, porymorphism, layered design and sitt j.	expressions, exery.	Application(s) contain all queries for CRUD actions, but the more complex	during conduction, it is possible to trace back who did what
			with the expected deliverables.	- UML Class Diagram(s) have correct application of only intermediate OO	Razor Page application(s) are delivered and make use of the framework's build-in	In addition, the application(s) contain functionalities implementing business	queries are still sub-optimal.	Unit tests are present to test units in the logic layer covering the happy-flow and
		anymore	with the expected deliverables.		functionalities (e.g. layout, input validation, model binding, etc.) covered during		queries are still sub-optimal.	most important alternative-flows are also tested and covered.
		·	During callebration with some foodback since bures to some or weekle to				Ourseins the database size as application in least at a minimum (a.e.	
Pro	oficient		During collaboration with peers, feedback given by you to peers are usable to	- URS contains all the expected FRs and/or UCs and does not completely match	WAD.	etc.) and/or algorithms to solve non-trivial functional requirements	Querying the database via an application is kept at a minimum (e.g.	AAA structure is applied to keep unit test readable.
			the receiver after some more discussions. In addition, features of GitLab are	with the most recent version of the application. Minor inconsistencies are			smart/combined queries should be used instead of loops sending multiple	Miles and Stand Broad and the Control of the Contro
			used to support a professional way of collaboration (e.g. issue tracking, issue	present but overall does not impact how the UCs/implementation behaves.			queries).	When required, Dependency Injection is applied to decouple logic and data
			board, etc.).					access layer to allow proper testing.
								A test plan and test report are delivered for the 'synthesis assignment' & project
								and the test cases cover the happy-flow and the most important alternative-
$\vdash$								flows.
- 1			You have a pro-active participation during lectures, practical, demos and	Expected documentations are delivered with appropriate and up-to-date		Delivered application(s) contain simple CRUD functionalities with proper input	Expected database(s) are delivered and support the application design properly	
- 1		sessions any minor mistakes the student realizes are corrected without any hints	meetings.	content. For example:	covered OO principles (i.e. correct usage of associations, encapsulation,	validation (e.g. non empty, uniqueness, handling wrong types, ranges, regular		branching strategies are used, commits are easily trace-back to each developers
- 1		from the teacher		- Project plan contains expected chapters are kept up-to-date (i.e. a living	inheritance, SOLID) correctly	expressions, etc.).	Application(s) contain optimized queries for CRUD actions.	task, releases are tagged appropriately, etc.
- 1			You meet the expected deadlines from the stakeholders (teachers and peers)	document) and allows all stakeholders to understand the context of the project,				
		Most of the feedback have been incorporated and a pro-active attitude is shown	with the expected deliverables.	what will be delivered and how it can successfully be achieved.	Razor Page application(s) are delivered and make use of the framework's build-in	In addition, the application(s) contain functionalities implementing business	Querying the database via the application is kept at a minimum (e.g.	Unit tests are present to test units in the application covering happy and
		related to double checking for similar mistakes, proposing possible		- UML Class Diagram(s) have correct application of the covered OO principles	functionalities (e.g. layout, input validation, model binding, etc.) covered during	rules (e.g. free shipping based on x, y, z, limiting input based on related entities,	smart/combined queries instead of loops sending simple queries). SQL functions	alternative-flows.
Ad	vanced	fixes/workarounds, etc.	During collaboration with peers, feedback given by you to peers are constructive	(i.e. associations, encapsulation, inheritance, layered design and SOLID) and	WAD.	etc.) and algorithms to solve non-trivial functional requirements	(e.g. MIN, MAX, SUM, EXTRACT, etc.) are used when applicable.	AAA structure and SOLID principles are applied to keep unit test maintainable.
			to the receiver.	matches the implementation;				
			In addition to GitLab, other tools are properly used to support a professional way	- URS contains all the expected FRs and UCs that are up-to-date (i.e. treated as a		From an implementation perspective, proper data structures are used/included		When required, Dependency Injection is applied to decouple logic and data
			of collaboration.	living document).		to support non-trivial functionalities		access layers to allow proper testing.
						**		
								A test plan and test report are delivered for the 'synthesis assignment' & project
ı								
								and cover both happy- and alternative-flows.