## Test plan

report

# Fontys University of Applied Science Software

Project Plan Individual project:



Tutor: Tim Kurvers & Maja pesic

Student: Mohammed Al Harbi

4089553

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### **End-to-end testing:**

The front end is being test with a help of third party library cypress.

The main reason of E2E testing is to simulate the end user experience and mimic the scenarios expected to occur to realise if something went wrong (as a final step ) before actually deploying the application.

#### **Backend testing:**

The main reason of doing unit tests is to specifically check whether all the functions of a class works as intended and that the whole logic does what it does in the way it is expected to be.

In the backend there different type of unit tests:

- Unit tests for Model classes
- Unit tests for Data transfer object classes (DTO)
- Unit tests for Data access layer classes stubs (DALstub)
- Unit tests using Mockito (external library facilitate process of testing interfaces)
- Unit tests using Fake (test interfaces using an embedded database H2)
- Unit tests to test the existences of the controllers
- Unit tests to test the HTTP request (testing JWT generation, get some expected results from controllers using the header authorization (BEARER {auto generated JWT})).

#### **Integration testing:**

The main reason of using IT is to test service object classes that use data access layer interfaces

- Integration tests for service class objects (ServiceTest)

#### **User acceptance test:**

The test cases demonstrate the what the functionality is, the scenario or the condition and the expected results for each function.

#### Abbreviations

- TCA: Test case regarding (Admin) privileges
- TCS: Test case regarding (student) privileges
- TCT: Test case regarding (Teacher) privileges

		name	condition		results	implementation results
5	TCA- 01	The admin is able to add or signup a teacher	The admin was in his main page  The admin clicked on sign up a teacher button  The admin filled the registration form and submitted it.	First name: "John"  Last name: "Doe"  Date of birth: 24-07-1995  Email: JohnDoeWork@gmail.com  Username: "Jusr11"  Password: "imnot11john"  Specialization: "Game developer"	The teacher John doe is added to the universal platform database and all crud functions apply to him.	The functionality is working properly with no bugs.
5	TCA- 02	The admin is able to add or signup a student	The admin was in his main page  The admin clicked on sign up a student button  The admin filled the registration form and submitted it.	First name: "Michael"  Last name: "Osun"  Date of birth: 24-07-1995  Email: Miko@gmail.com  Username: "mmlo"  Password: "hihi1212"  Specialization: "Front end software developer"	The student Michael Osun is added to the universal platform database and all crud functions apply to him.	The functionality is working properly with no bugs.
5	TCA-	The admin is	The admin	NO DATA ENTERED	The admin	The

	03	able to see all the teachers	was in his main page  The admin clicked on get all teachers on the navigation		is redirected to a page where all the teachers are shown in person cards that display their	functionality is working properly with no bugs.
5	TCA- 04	The admin is able to see all the students	bar. The admin was in his main page  The admin clicked on get all teachers on the navigation bar.	NO DATA ENTERED	information. The admin is redirected to a page where all the students are shown in person cards that display their information	The functionality is working properly with no bugs.
5	TCA- 05	The admin is able to get a specific student using his ID	The admin was in his main page  The admin clicked on "Get students using a specific ID"  The admin selected the ID of the student and clicked on get student information button	Student ID: 33	A person card shows that include information regarding the student with the id 33	The functionality is working properly with no bugs.

5	TCA- 06	The admin is able to get a specific teacher using his ID	The admin was in his main page  The admin clicked on "Get teachers using a specific ID"  The admin selected the ID of the teacher and clicked on get teacher information button	Teacher ID: 39	A person card shows that include information regarding the teacher with the id 39	The functionality is working properly with no bugs.
5	TCA- 07	The admin is able to remove a teacher account from the universal platform Henaknowled ge	The admin was in his main page  The admin clicked on "Delete a teacher"  The admin selected the ID of the teacher and clicked on delete	Teacher ID: 39	The teacher with the id 39 is removed completely from the database which mean that the teacher doesn't have personal information in the database and can not log in anymore with his account	The functionality is working properly with no bugs.
5	TCA- 08	The admin is able to	The admin was in his	Student ID: 33	The student with the id	The functionality is

		mana ave =			22:0	م براه سادنی م
		remove a	main page		33 is	working
		student			removed	properly with
		account from			completely	no bugs.
		the universal	The admin		from the	
		platform	clicked on		database	
		Henaknowled	"Delete a		which mean	
		ge	student "		that the	
					student	
			The admin		does not	
			selected the		have	
			ID of the		personal	
			student and		information	
			clicked on		in the	
			delete		database	
					and cannot	
					log in	
					anymore	
					with his	
					account	
5	TCS-01	The student is	The student	First name: "Michael"	Michael as a	The
		able to	was in their		student	functionality is
		update his	main page	Last name:	realized	working
		personal		"Osuntuyi"	that his last	properly with
		information		,	name was	no bugs.
			The student	Date of birth:	wrong so he	
			clicked on	24-07-1995	updated the	
			"Update		last name.	
			personal	Email:	idot ridirio.	
			information"	Miko@gmail.com	Expected	
			iiiioiiiideioii	WING C STITUTION OF THE	results:	
			The student			
			filled in their		The last	
			new		name is	
			personal		updated in	
			details and		the	
			clicked on		universal	
			Update		platform	
			Opuale		and his last	
					name is	
					changed	
					everywhere	
					Michael last	
					name is	

					montioned	
					mentioned	
					in the	
5	TCT-01	The state of	The state of		platform.	TI
5	101-01	The teacher is	The teacher	First name: "John"	John doe	The
		able to	was in their		decided to	functionality is
		update his	main page	Last name:	change his	working
		personal		"Doe"	work email	properly with
		information			address to a	no bugs.
			The teacher	Date of birth:	one that by	
			clicked on "Update	24-07-1995	fontys.	
			personal	Email:	Expected	
			information"	J.D@teacher.fontys.nl	results:	
				•		
			The teacher		The email	
			filled in their		address of	
			new		John doe is	
			personal		updated	
			details and		everywhere	
			clicked on		it is	
			Update		mentioned	
					in the	
					platform	
					and for	
					admins that	
					can see	
					other users	
					like John	
					doe	
					information.	
5	TCA-	After an	The admin	First name: "Mohammed"	Mohammed	The
	09	admin signs	was in his		receives an	functionality is
		up a student,	main page	Last name:	automated	working
		an automated		"Harbi"	email	properly with
		email is sent	The admin		containing	no bugs.
		to the signed	presses on	Date of birth:	random	
		up student.	the add	24-07-1995	username	
		,	student		and	
			section	Email:	password	
				Mohammedalharbi000@g	, , , , , , , , , , , , , , , , , , , ,	
			The admin	mail.com		
			fills in all the		And is able	
			student		to login	
	<u> </u>	<u> </u>	Judgenie	l	1 50 100111	

		I	<u> </u>			
			details		with the	
					student	
			The admin		profile in	
			presses on		henaknowle	
			add button		dge	
5	TCA-	After an	The admin	First name: "Mohammed"	Mohammed	The
	10	admin signs	was in his		receives an	functionality is
		up a teacher,	main page	Last name:	automated	working
		an automated		"Harbi"	email	properly with
		email is sent	The admin		containing	no bugs.
		to the signed	presses on	Date of birth:	random	
		up teacher.	the add	24-07-1995	username	
			teacher		and	
			section	Email:	password	
				Mohammedalharbi000@g		
			The admin	<u>mail.com</u>	And is able	
			fills in all the		to login	
			teacher	Specialization:	with the	
			details	Front end developer	teacher	
					profile in	
			The admin		henaknowle	
			presses on		dge	
			add button			
5	TCA-	The admin is	The admin		A pop up	The
	11	informed with	was in his		appears	functionality is
		some help in	main page		indicating	working
		signing up a			some help	properly with
		student	The admin		regarding	no bugs.
			clicks on the		what is	
			signing up a		going to	
			student		happen.	
			navigation			
			link			
			The admin			
			clicks on			
			help button			
5	TCA-	The admin is	The admin		The admin	The
	12	able to logout	was in his		is	functionality is
			main page		redirected	working
1					back to the	properly with
		i e	l	I .	Ī	• •
			The admin		main	no bugs.
5			navigation link  The admin clicks on help button The admin was in his		The admin is redirected	functionalit working

			log out navigation link	page	
5	TCS-02	The student finds his information already written in the update student profile section	The student was in his main page  The student clicks on the update profile personal information navigation link	The student sees his personal information pre-written	The functionality is working properly with no bugs.
5	TCT-02	The teacher finds his information already written in the update teacher profile section	The teacher was in his main page  The teacher clicks on the update profile personal information navigation link	The teacher sees his personal information pre-written	The functionality is working properly with no bugs.
5	TCS-03	The student is able to see a generated unique code to redeem his points	The student in his main page  The student clicks on the points navigation link	The student is able to see a unique code	The functionality is working properly with no bugs.

	TCC O4	<del>-</del>	<del></del>			
5	TCS-04	The student is	The student		The student	The
		able to search	in his main	search:	is able to	functionality is
		on teachers	page	ahmed harbi	see the	working
		for contacting			teacher	properly with
			The student		ahmed	no bugs.
			clicks on the		Harbi card	
			contact		and able to	
			navigation		contact him	
			link			
5	TCS-05	The student is	The student		The student	The
		able to filter	in his main		is able to	functionality is
		searching	page		see all the	working
		teachers by			teachers	properly with
		specialization	The student		with the	no bugs.
			clicks on the		specializatio	
			contact		n databases	
			navigation		manageme	
			link		nt	
			Clicks on the			
			database			
			managemen			
			t button			
5	TCS-06	The student is	The student	Title : "a test"	All the	The
		able to share	in his main		students	functionality is
		an experience	page	Description: "this is to test	and	working
		arr experience	Page	the new Henaknowledge	teachers of	properly with
			The student	feature of sharing	Henaknowle	no bugs.
			clicks on	experiences!"	dge are able	110 2453.
			share	ехрепенеез:	to see the	
			experience		shared	
			navigation			
			link		experience	
			IIIIK			
			The student			
			fills in all the			
			experience			
			details and			
			clicks on			
			share			
			button			

5	TCS-07	The second of the	The second of		The second of	Tla a
)	103-07	The student is	The student		The student	The
		able to check	in his main		is able to	functionality is
		out all the	page		see the	working 95%
		shared			title, able to	with small bug
		experiences	The student		like or	on liking and
			clicks on		dislike,	disliking
			experiences		able to see	feature (the
			navigation		the	person can
			link		description,	only like or
					add a	dislike once
			The student		comment	but the bug
			clicks on "a		and read all	occurs because
			test"		the	of not updated
			experience		comments	state of the
			card		against the	liking and
					chosen	disliking)
5	TCS-08	The student is	The student		experience The student	The
]	103-08					
		able to like a	in his main		sees a title "test"	functionality is
		shared	page		test	working 95%
		experience	The student		Description	with small bug on liking and
			clicks on		" this is to	disliking
			experiences		test the	feature (the
			·		new	person can
			navigation link		henaknowle	only like or
			IIIIK		dge feature	dislike once
			The student		of sharing	but the bug
			clicks on "a		experiences	occurs because
			test"		I"	of not updated
			experience		:	state of the
			card		And the	liking and
			33		number of	disliking)
			The student		likes has	
			clicks on like		been	
			thump up		increased	
			icon		from 0 to 1	
5	TCS-09	The student is	The student		The student	The
		able to dislike	in his main		sees a title	functionality is
		a shared	page		"test"	working 95%
		experience				with small bug
			The student		Description	on liking and
					· · · · · · · · · · · · · · · · · · ·	-

5	TCS-10	The student is	clicks on experiences navigation link  The student clicks on "a test" experience card  The student clicks on dislike thump down icon	"this is to test the new henaknowle dge feature of sharing experiences!"  And the number of like has been decreased from 1 to 0 And the number of dislikes has been increased 0 to 1	disliking feature (the person can only like or dislike once but the bug occurs because of not updated state of the liking and disliking)
5	ICS-10	The student is able to contact a teacher	The student on his main page  The student clicks on contact navigation link  The student clicks on contact a teacher  The student is able to send a question to the specified teacher	a empty field appears where student can send the question and once the teacher have replied the student can mark it as useful or not useful	Has not been implemented yet

5	TCT-03	The teacher is able to check his own points	The teacher on his main page  The teacher clicks on the navigation link your points		The teacher is able to see his own points	The functionality is working properly with no bugs.
5	TCT-04	The teacher is able to see a unique for his points	The teacher on his main page  The teacher clicks on the navigation link your points		The teacher is able to see a unique code to redeem his points	The functionality is working properly with no bugs.
5	TCT-05	The teacher is able to share his own experience	The teacher on his main page  The teacher clicks on share experience navigation link	Title: "a test from a teacher"  Description: "this is to test the new Henaknowledge feature of sharing experiences!"	All the students and teachers of Henaknowle dge are able to see the shared experience	The functionality is working properly with no bugs.
5	TCT-06	The teacher is able to check out other experiences	The teacher in his main page  The teacher clicks on experiences navigation link  The teacher clicks on "a		The teacher is able to see the title, able to like or dislike, able to see the description, add a comment and read all	The functionality is working 95% with small bug on liking and disliking feature (the person can only like or dislike once but the bug occurs because

			test from a teacher" experience card	the comments against the chosen experience	of not updated state of the liking and disliking)
5	TCT-07	The teacher is able to like an experience	The teacher in his main page  The teacher clicks on experiences navigation link  The teacher clicks on "a test from a teacher" experience card  The teacher clicks on like button	The like has been increased from 0 to 1,  The like thump up icon indicates that the teacher has liked this experience	The functionality is working 95% with small bug on liking and disliking feature (the person can only like or dislike once but the bug occurs because of not updated state of the liking and disliking)
5	TCT-08	The teacher is able to dislike an experience	The teacher in his main page  The teacher clicks on experiences navigation link  The teacher clicks on "a test from a teacher" experience card	the dislike has been increased from 0 to 1,  the like has been decreased from 1 to 0,  The like thump up icon indicates that the teacher has liked this	The functionality is working 95% with small bug on liking and disliking feature (the person can only like or dislike once but the bug occurs because of not updated state of the liking and disliking)

5	TCT-09	The teacher is able to logout from main page	The teacher clicks on like button  The teacher on his main		experience  The teacher	The
5	TCT-09	able to logout from main	button  The teacher on his main		The teacher	The
5	TCT-09	able to logout from main	The teacher on his main		The teacher	The
5	TCT-09	able to logout from main	on his main		The teacher	The
5	TCT-09	able to logout from main	on his main		The teacher	The
5	TCT-09	able to logout from main	on his main		The teacher	The
5	TCT-09	able to logout from main	on his main		The teacher	The
		from main				
			50.50		is logged	functionality is
		page	page		out and	working
					redirected	properly with
			The teacher		to the main	no bugs.
			clicks on the		landing	O
			logout		page	
			navigation		bage	
1			link			
5	TCT-10	The teacher is	The teacher		The teacher	The
	101-10	The teacher is				
		able to login	is in the log		is logged in	functionality is
		to his profile	in form		to the	working
					teacher	properly with
					profile	no bugs.
			The teacher			
			enters the			
			unique			
			username			
			and			
			password			
			received in			
			their email			
5	TCT-11	The teacher is		guestion: "what kind of	The teacher	Has not been
				· ·		
				"		•
			Page			yet
			The teacher	answer: "primitive types		
		questions				
				I -	_	
			link			
				tourth"		
	1		question		useful, it	
			that has		appears in	
			been a		the useful	
5	TCT-11	The teacher is able to answer student questions	received in their email The teacher in his main page The teacher clicks on the questions navigation link The teacher clicks on the questions	question: "what kind of database types are there?"  answer: "primitive types and there are specific types, for example MySql has specific mysql database types so on so fourth"		Has not beer implemented yet

		<u> </u>	<u> </u>	T	<u> </u>	
	T00 14		The teacher types the answer and clicks on send answer			
5	TCS-11	The student is able to login to his profile	The student is in the log in form  The student enters the unique username and password received in their email		The student is logged in to the student profile	The functionality is working properly with no bugs.
5	TCA- 13	The admin is able to login to his profile	The admin is in the log in form  The admin enters his pre-made account details		The admin is logged in in the admin profile	The functionality is working properly with no bugs.
5	TCA- 14	The admin is able to register other admins	The admin in his main page  The admin clicks on the add admin navigation link  Fills in all the details and clicks on add	Firstname: "Jalio" Lastname: "kirlo" Date of birth:19-06-1970	Jalio receives an automatic email containing unique credentials.	The functionality is added in backend.  The functionality has not yet been added to the frontend.

5	TCT-12	The teacher is	The teacher	comment: "this is a good	The teacher	The
		able to	opens his	experience, keep up the	would be	functionality is
		comment in	main page	good work"	able to see	working
		an experience			his	properly with
		arr experience	The teacher		comment	no bugs.
			clicks on		being	110 2 4801
			experiences		posted in	
			experiences		the	
			Chooses an		comment	
			experience		section of	
					the	
			Go to		experience.	
			comment			
			section			
			Add a			
			comment			
5	TCA-15	The admin is	The admin		The admin	Has not been
		able to check	on his main		is able to	implemented
		the activity of	page		see	
		the students			teachers	
		and teachers	The admin		and	
			clicks on the		students	
			activity		and their	
			navigation		activity in	
			link		using	
					henaknowle	
					dge	
5	TCA-16	The admin is	The admin		The admin	Has not been
		able to check	on his main		is able to	implemented
		the statistics	page		see the	
					statistics of	
			The admin		henaknowle	
			clicks on the		dge in	
			statistics		terms of	
			navigation		activity	
			link		experiences	
					likes dislikes	
					extra	

5	TCA-17	The admin is	The admin	The admin	Has not been
		able to	on his main	is able to	implemented
		control some	page	see the	yet
		of the styling		dash board	
		and options in	The admin	and change	
		henaknowled	clicks on the	settings,	
		ge	settings	then these	
			navigation	would be	
			link	taken place	
				to all users	
				of	
				henaknowle	
				dge.	