

Test plan

report

Fontys University of Applied Science
Software

Project Plan Individual project:



Henaknowledge

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sprint	ID	Function	Pre-	Used data	Expected	actual
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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	<p>The admin was in his main page</p> <p>The admin clicked on sign up a teacher button</p> <p>The admin filled the registration form and submitted it.</p>	<p>First name: "John"</p> <p>Last name: "Doe"</p> <p>Date of birth: 24-07-1995</p> <p>Email: JohnDoeWork@gmail.com</p> <p>Username: "Jusr11"</p> <p>Password: "imnot11john"</p> <p>Specialization: "Game developer"</p>	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	<p>The admin was in his main page</p> <p>The admin clicked on sign up a student button</p> <p>The admin filled the registration form and submitted it.</p>	<p>First name: "Michael"</p> <p>Last name: "Osun"</p> <p>Date of birth: 24-07-1995</p> <p>Email: Miko@gmail.com</p> <p>Username: "mmlo"</p> <p>Password: "hihi1212"</p> <p>Specialization: "Front end software developer"</p>	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	<p>was in his main page</p> <p>The admin clicked on get all teachers on the navigation bar.</p>		is redirected to a page where all the teachers are shown in person cards that display their information.	functionality is working properly with no bugs.
5	TCA-04	The admin is able to see all the students	<p>The admin was in his main page</p> <p>The admin clicked on get all teachers on the navigation bar.</p>	NO DATA ENTERED	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	<p>The admin was in his main page</p> <p>The admin clicked on "Get students using a specific ID"</p> <p>The admin selected the ID of the student and clicked on get student information button</p>	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	<p>The admin was in his main page</p> <p>The admin clicked on “Get teachers using a specific ID”</p> <p>The admin selected the ID of the teacher and clicked on get teacher information button</p>	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 Henaknowledge	<p>The admin was in his main page</p> <p>The admin clicked on “Delete a teacher ”</p> <p>The admin selected the ID of the teacher and clicked on delete</p>	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

		remove a student account from the universal platform Henaknowledge	<p>main page</p> <p>The admin clicked on "Delete a student "</p> <p>The admin selected the ID of the student and clicked on delete</p>		33 is removed completely from the database which mean that the student does not have personal information in the database and cannot log in anymore with his account	working properly with no bugs.
5	TCS-01	The student is able to update his personal information	<p>The student was in their main page</p> <p>The student clicked on "Update personal information"</p> <p>The student filled in their new personal details and clicked on Update</p>	<p>First name: "Michael"</p> <p>Last name: "Osuntuyi"</p> <p>Date of birth: 24-07-1995</p> <p>Email: Miko@gmail.com</p>	<p>Michael as a student realized that his last name was wrong so he updated the last name.</p> <p>Expected results:</p> <p>The last name is updated in the universal platform and his last name is changed everywhere Michael last name is</p>	The functionality is working properly with no bugs.

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

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

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

5	TCS-04	The student is able to search on teachers for contacting	<p>The student in his main page</p> <p>The student clicks on the contact navigation link</p>	<p>search:</p> <p>ahmed harbi</p>	The student is able to see the teacher ahmed Harbi card and able to contact him	The functionality is working properly with no bugs.
5	TCS-05	The student is able to filter searching teachers by specialization	<p>The student in his main page</p> <p>The student clicks on the contact navigation link</p> <p>Clicks on the database management button</p>		The student is able to see all the teachers with the specialization databases management	The functionality is working properly with no bugs.
5	TCS-06	The student is able to share an experience	<p>The student in his main page</p> <p>The student clicks on share experience navigation link</p> <p>The student fills in all the experience details and clicks on share button</p>	<p>Title : "a test"</p> <p>Description: "this is to test the new Henaknowledge feature of sharing experiences!"</p>	All the students and teachers of Henaknowledge are able to see the shared experience	The functionality is working properly with no bugs.

5	TCS-07	The student is able to check out all the shared experiences	<p>The student in his main page</p> <p>The student clicks on experiences navigation link</p> <p>The student clicks on “a test” experience card</p>		<p>The student is able to see the title, able to like or dislike, able to see the description, add a comment and read all the comments against the chosen experience</p>	<p>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)</p>
5	TCS-08	The student is able to like a shared experience	<p>The student in his main page</p> <p>The student clicks on experiences navigation link</p> <p>The student clicks on “a test” experience card</p> <p>The student clicks on like thump up icon</p>		<p>The student sees a title “test”</p> <p>Description “ this is to test the new henaknowledge feature of sharing experiences !”</p> <p>And the number of likes has been increased from 0 to 1</p>	<p>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)</p>
5	TCS-09	The student is able to dislike a shared experience	<p>The student in his main page</p> <p>The student</p>		<p>The student sees a title “test”</p> <p>Description</p>	<p>The functionality is working 95% with small bug on liking and</p>

			<p>clicks on experiences navigation link</p> <p>The student clicks on “a test” experience card</p> <p>The student clicks on dislike thump down icon</p>		<p>“ this is to test the new henaknowledge feature of sharing experiences !”</p> <p>And the number of like has been decreased from 1 to 0 And the number of dislikes has been increased 0 to 1</p>	<p>disliking feature (the person can only like or dislike once but the bug occurs because of not updated state of the liking and disliking)</p>
5	TCS-10	The student is able to contact a teacher	<p>The student on his main page</p> <p>The student clicks on contact navigation link</p> <p>The student clicks on contact a teacher</p> <p>The student is able to send a question to the specified teacher</p>		<p>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</p>	<p>Has not been implemented yet</p>

5	TCT-03	The teacher is able to check his own points	<p>The teacher on his main page</p> <p>The teacher clicks on the navigation link your points</p>		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	<p>The teacher on his main page</p> <p>The teacher clicks on the navigation link your points</p>		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	<p>The teacher on his main page</p> <p>The teacher clicks on share experience navigation link</p>	<p>Title : “a test from a teacher”</p> <p>Description: “this is to test the new Henaknowledge feature of sharing experiences!”</p>	All the students and teachers of Henaknowledge 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	<p>The teacher in his main page</p> <p>The teacher clicks on experiences navigation link</p> <p>The teacher clicks on “a</p>		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	<p>The teacher in his main page</p> <p>The teacher clicks on experiences navigation link</p> <p>The teacher clicks on “a test from a teacher” experience card</p> <p>The teacher clicks on like button</p>		<p>The like has been increased from 0 to 1,</p> <p>The like thump up icon indicates that the teacher has liked this experience</p>	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	<p>The teacher in his main page</p> <p>The teacher clicks on experiences navigation link</p> <p>The teacher clicks on “a test from a teacher” experience card</p>		<p>the dislike has been increased from 0 to 1,</p> <p>the like has been decreased from 1 to 0,</p> <p>The like thump up icon indicates that the teacher has liked this</p>	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)

			The teacher clicks on like button		experience	
5	TCT-09	The teacher is able to logout from main page	<p>The teacher on his main page</p> <p>The teacher clicks on the logout navigation link</p>		The teacher is logged out and redirected to the main landing page	The functionality is working properly with no bugs.
5	TCT-10	The teacher is able to login to his profile	<p>The teacher is in the log in form</p> <p>The teacher enters the unique username and password received in their email</p>		The teacher is logged in to the teacher profile	The functionality is working properly with no bugs.
5	TCT-11	The teacher is able to answer student questions	<p>The teacher in his main page</p> <p>The teacher clicks on the questions navigation link</p> <p>The teacher clicks on the question that has been a student</p>	<p>question: "what kind of database types are there?"</p> <p>answer: "primitive types and there are specific types, for example MySQL has specific mysql database types so on so fourth"</p>	The teacher would be informed that his answer is waiting to be assessed by the student and if the student mark it as useful, it appears in the useful column.	Has not been implemented yet

			The teacher types the answer and clicks on send answer			
5	TCS-11	The student is able to login to his profile	<p>The student is in the log in form</p> <p>The student enters the unique username and password received in their email</p>		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	<p>The admin is in the log in form</p> <p>The admin enters his pre-made account details</p>		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	<p>The admin in his main page</p> <p>The admin clicks on the add admin navigation link</p> <p>Fills in all the details and clicks on add</p>	<p>Firstname: "Jalio"</p> <p>Lastname: "kirlo"</p> <p>Date of birth:19-06-1970</p>	Jalio receives an automatic email containing unique credentials.	<p>The functionality is added in backend.</p> <p>The functionality has not yet been added to the frontend.</p>

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

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