

WEB TECHNOLOGIES – WRITE UP

SPRINT #2

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1. INTRODUCTION

The login and logout functionalities will be added to the previous Admin Dashboard. Also will be adding new functionalities to the users table: it will be possible to create new users, update and delete them. All the alert message will be more interactive, integrated and consistent with the website look and feel. Some details to give a better user experience will be provided.

2. USER STORIES

1. As an Admin, I want to login so that I can have access to the admin dashboard.
2. As an Admin, I want to see my name and picture so that I know that is my session.
3. As an Admin, I want to logout so that I can leave my session.
4. As an Admin, I want to create a new user so that I can create an account to him.
5. As an Admin, I want to edit a user so that I can see the details and also perform more actions in the selected user.
6. As an Admin, I want to update a user so that I can change any detail of the user.
7. As an Admin, I want to delete a user so that I can block the access of the user deleted to the admin dashboard.
8. As an Admin, I want the title and subject of any new course to be mandatory so that I can have this info shown on the table instead of blanks.
9. As an Admin, I want the course details with the ID on the modal title and the title and description with a bigger field so that I can read easily.

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3. MANUAL TEST

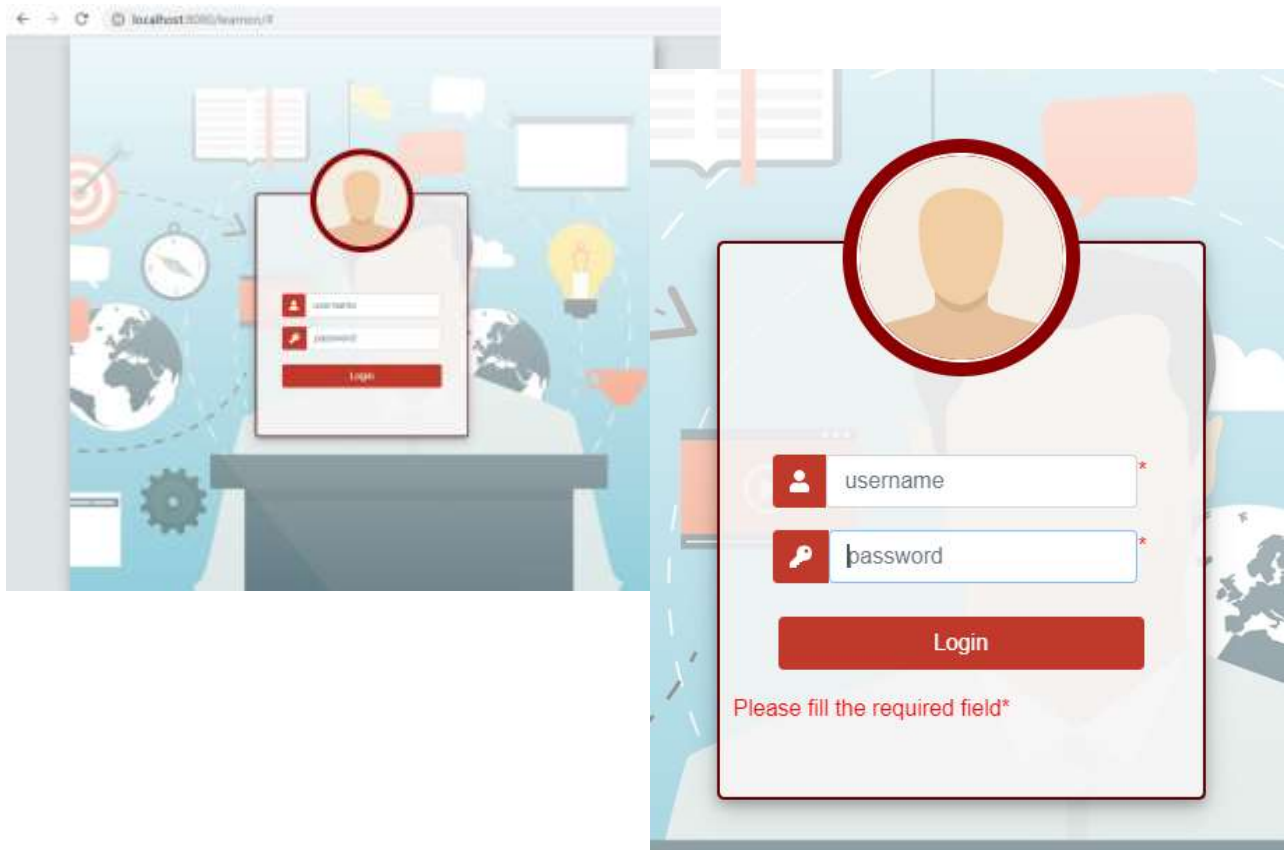
MANUAL TEST RESULT							
TEST CASE ID	User Story ID	Scenario description	Scenario No.	Test No.	Date of Test	Status	Bug ID
1	1	Login Unsuccessful due Empty Fields	1	US1SC1	23-Mar	PASS	--
2	1	Login Unsuccessful due Wrong Credentials	2	US1SC2	23-Mar	PASS	--
3	1	Login Successful	3	US1SC3	23-Mar	PASS	--
4	2	Name and picture showing on navigation bar	1	US2SC1	27-Mar	PASS	--
5	3	Logout Successfully	1	US3SC1	27-Mar	PASS	--
6	4	Create user unsuccessful due empty fields	1	US4SC1	27-Mar	FAIL	TC6 US4 SC1 BI1 TC6 US4 SC1 BI2
6	4	Create user unsuccessful due empty fields	1	US4SC1	02-Apr	PASS	TC6 US4 SC1 BI1 TC6 US4 SC1 BI2
7	4	No user created due cancel button	2	US4SC2	02-Apr	PASS	--
8	4	No user created due inadequate password	3	US4SC3	02-Apr	FAIL	TC8 US4 SC3 BI3
8	4	No user created due inadequate password	3	US4SC3	02-Apr	PASS	TC8 US4 SC3 BI3
9	4	New user created successfully	4	US4SC4	02-Apr	PASS	--
10	5	See the details for the selected user	1	US5SC1	02-Apr	PASS	--
11	6	Update successfully	1	US6SC1	02-Apr	FAIL	TC11 US6 SC1 BI4
11	6	Update successfully	1	US6SC1	02-Apr	PASS	TC11 US6 SC1 BI4
12	6	Update unsuccessfully	2	US6SC2	02-Apr	PASS	--
13	7	Delete a user successfully	1	US7SC1	02-Apr	PASS	--
14	8	No course created due mandatory fields not filled in	1	US8SC1	05-Apr	PASS	--
15	8	Course created when mandatory fields are filled in	2	US8SC2	05-Apr	PASS	--
16	9	Course details easier to read	1	US9SC1	05-Apr	PASS	--

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USER STORY 1 SCENARIO 1	As an Admin, I want to login so that I can have access to the admin dashboard.
TEST CASE ID	1
DESCRIPTION	Login Unsuccessful due Empty Fields
PRECONDITIONS	The Application Server and Database Server is running The browser is open
ACTIONS	Enter the url: http://localhost:8080/learnon Press enter Press login button
EXPECTED RESULTS	The login page is loaded It is possible to see a modal with a space to display the user picture, fields to insert the credentials (username and password) and the login button It is also possible to see an information about the required fields that must be filled in

TEST STATUS – PASSED

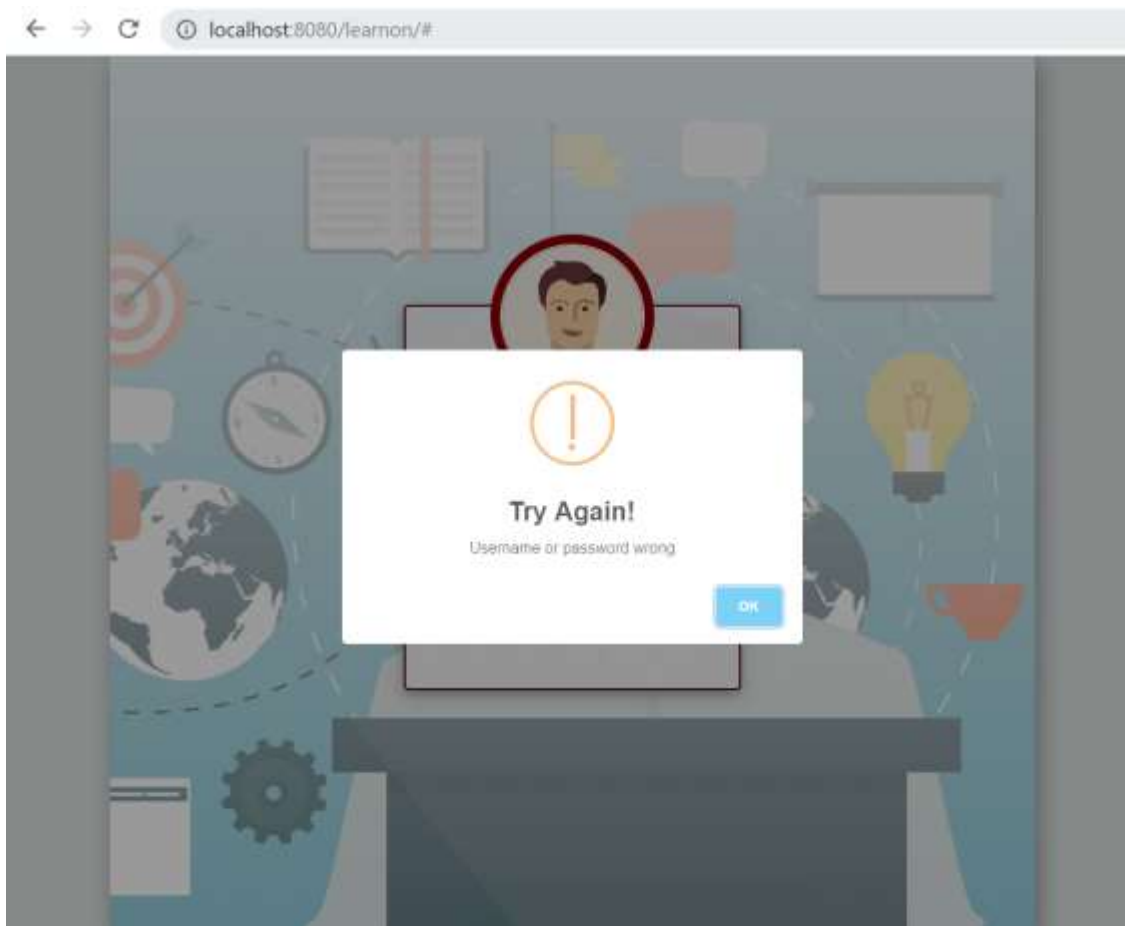


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USER STORY 1	As an Admin, I want to login so that I can have access to the admin
SCENARIO 2	dashboard.
TEST CASE ID	2
DESCRIPTION	Login Unsuccessful due Wrong Credentials
PRECONDITIONS	The Application Server and Database Server is running The browser is open
ACTIONS	Enter the url: http://localhost:8080/learnon Press enter Insert a wrong credential combination Press login button
EXPECTED RESULTS	The login page is loaded If the username is valid the picture appears Due any wrong credential combination inserted a message appears informing wrong details The login page is presented with the previous fields filled in

TEST STATUS – PASSED

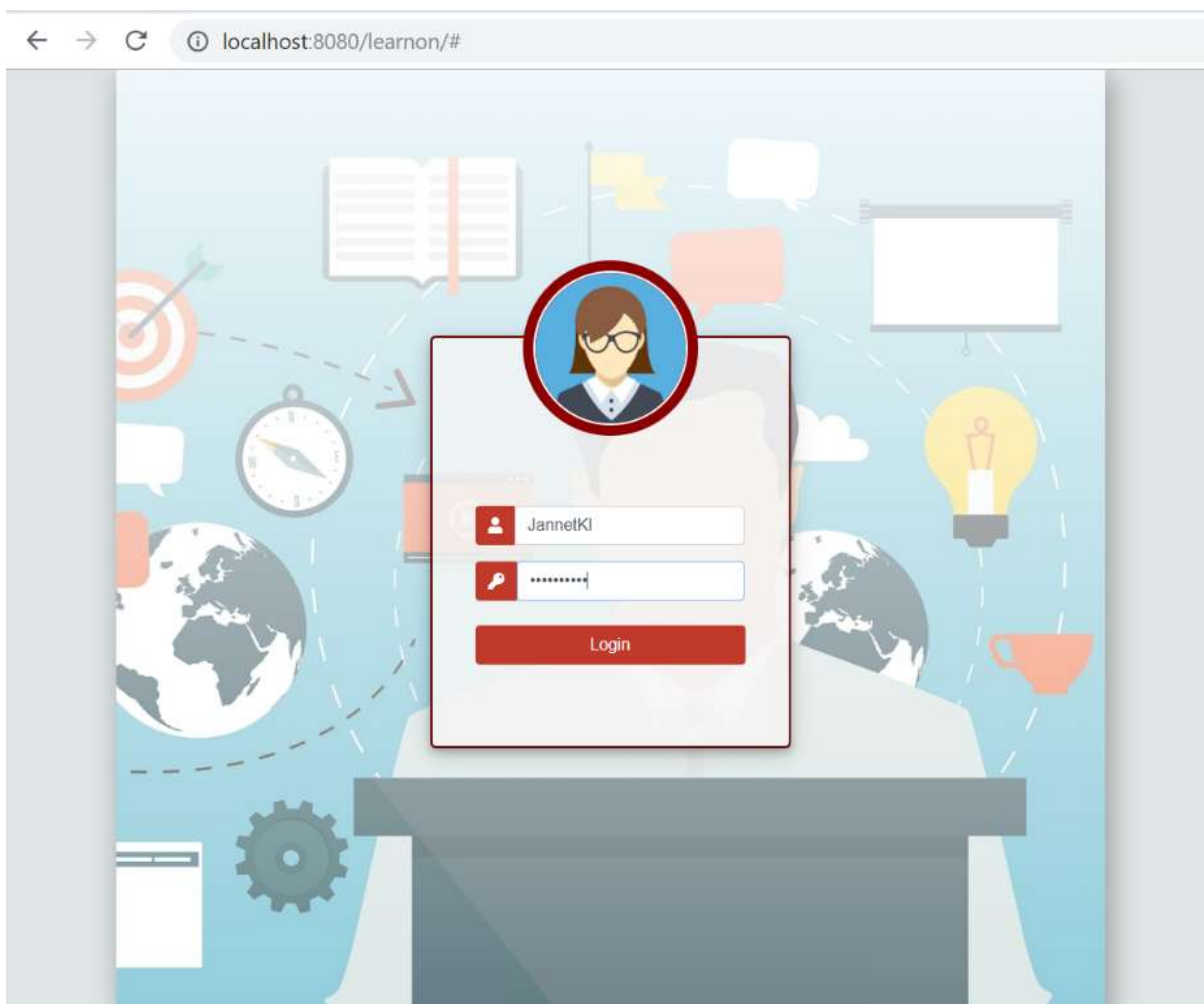


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USER STORY 1	As an Admin, I want to login so that I can have access to the admin
SCENARIO 3	dashboard.
TEST CASE ID	3
DESCRIPTION	Login Successful
PRECONDITIONS	The Application Server and Database Server is running The browser is open
ACTIONS	Enter the url: http://localhost:8080/learnon Press enter Insert valid credentials combination Press login
EXPECTED RESULTS	The login page is loaded The picture is displayed when a valid username is typed in The admin dashboard appears with the picture and name of the user logged in

TEST STATUS – PASSED

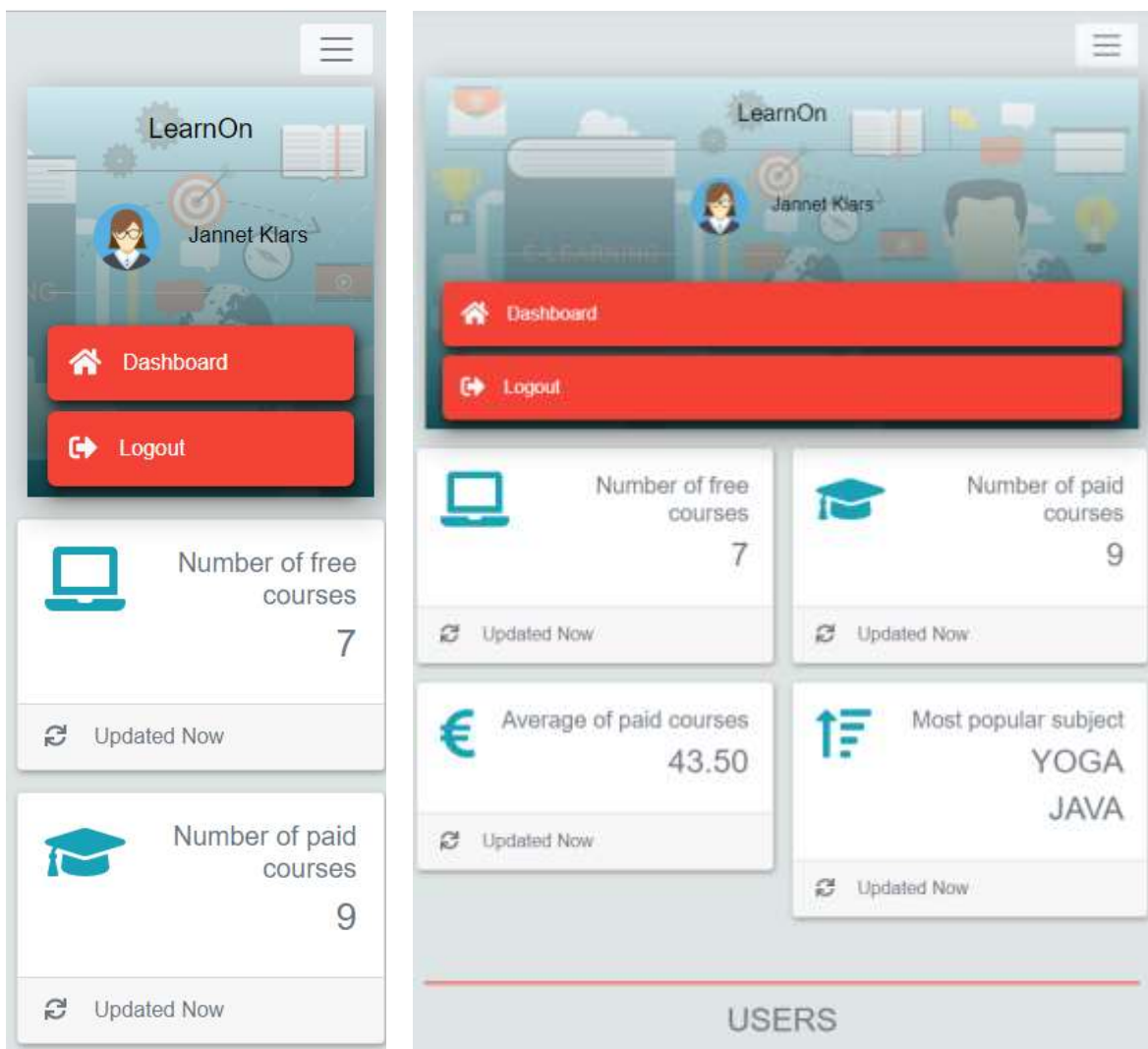


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USER STORY 2	As an Admin, I want to see my name and picture so that I know that is my session.
SCENARIO 1	
TEST CASE ID	4
DESCRIPTION	Name and picture showing on navigation bar
PRECONDITIONS	The Application Server and Database Server is running The browser is open
ACTIONS	Enter the url: http://localhost:8080/learnon Press enter Insert valid credentials combination Press login
EXPECTED RESULTS	The login page is loaded The picture is displayed when a valid username is typed in The admin dashboard appears with the picture and name of the user logged in

TEST STATUS – PASSED



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USER STORY 3 SCENARIO 1	As an Admin, I want to logout so that I can leave my session.
TEST CASE ID	5
DESCRIPTION	Logout Successfully
PRECONDITIONS	The Application Server and Database Server is running The browser is open
ACTIONS	Enter the url: http://localhost:8080/learnon Press enter Insert valid credentials combination Press login Press logout
EXPECTED RESULTS	The login page is loaded The picture is displayed when a valid username is typed in The admin dashboard appears with the picture and name of the user logged in The login page appears again with all fields ready to be filled in (no credentials inserted and no picture)

TEST STATUS – PASSED

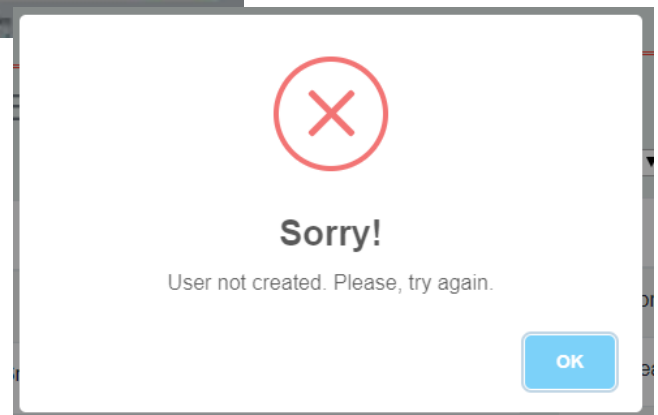
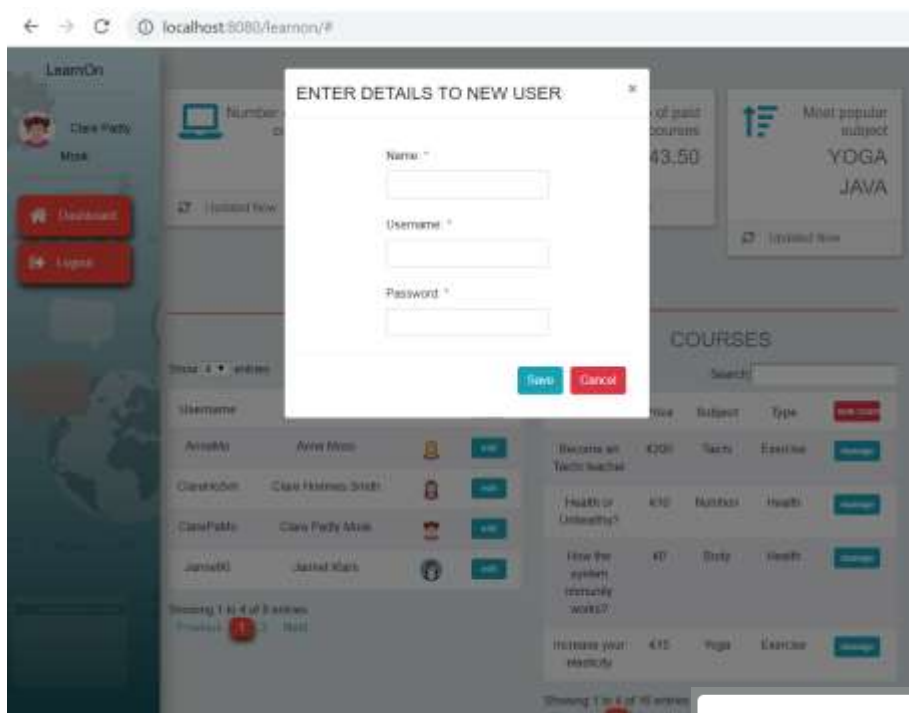


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USER STORY 4 SCENARIO 1	As an Admin, I want to create a new user so that I can create an account to him.
TEST CASE ID	6
DESCRIPTION	Create user unsuccessful due empty fields
PRECONDITIONS	The Application Server and Database Server is running The browser is open The user is logged in
ACTIONS	Press new user button Press Save
EXPECTED RESULTS	A window to enter the details to the new user appears informing the required fields An error message appears informing no user created

TEST STATUS – PASSED

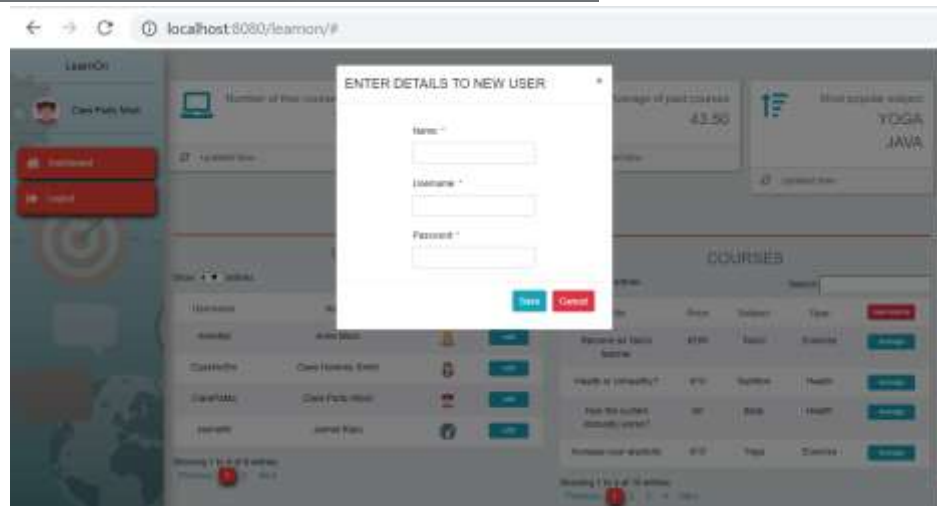
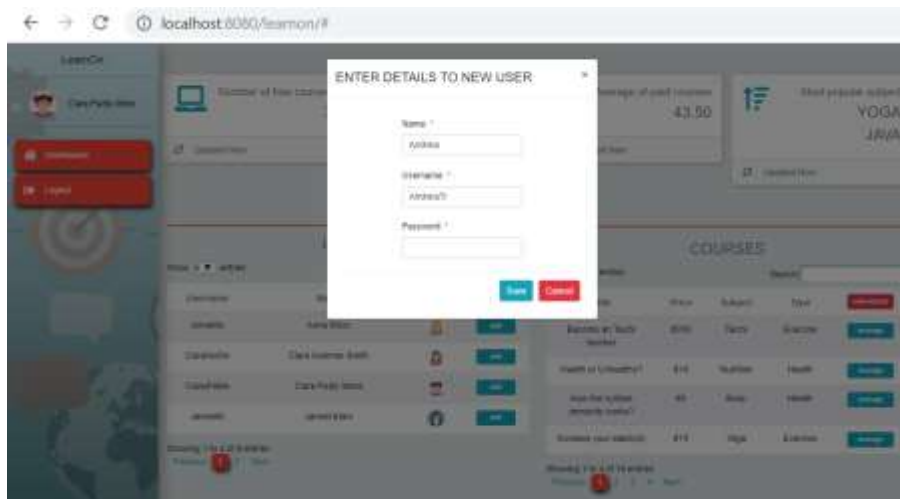


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USER STORY 4 SCENARIO 2	As an Admin, I want to create a new user so that I can create an account to him.
TEST CASE ID	7
DESCRIPTION	No user created due cancel button
PRECONDITIONS	The Application Server and Database Server is running The browser is open The user is logged in
ACTIONS	Press new user button Press Cancel Press new user button
EXPECTED RESULTS	A window to enter the details to the new user appears informing the required fields No user is created and all the fields are cleared including the password indications

TEST STATUS – PASSED

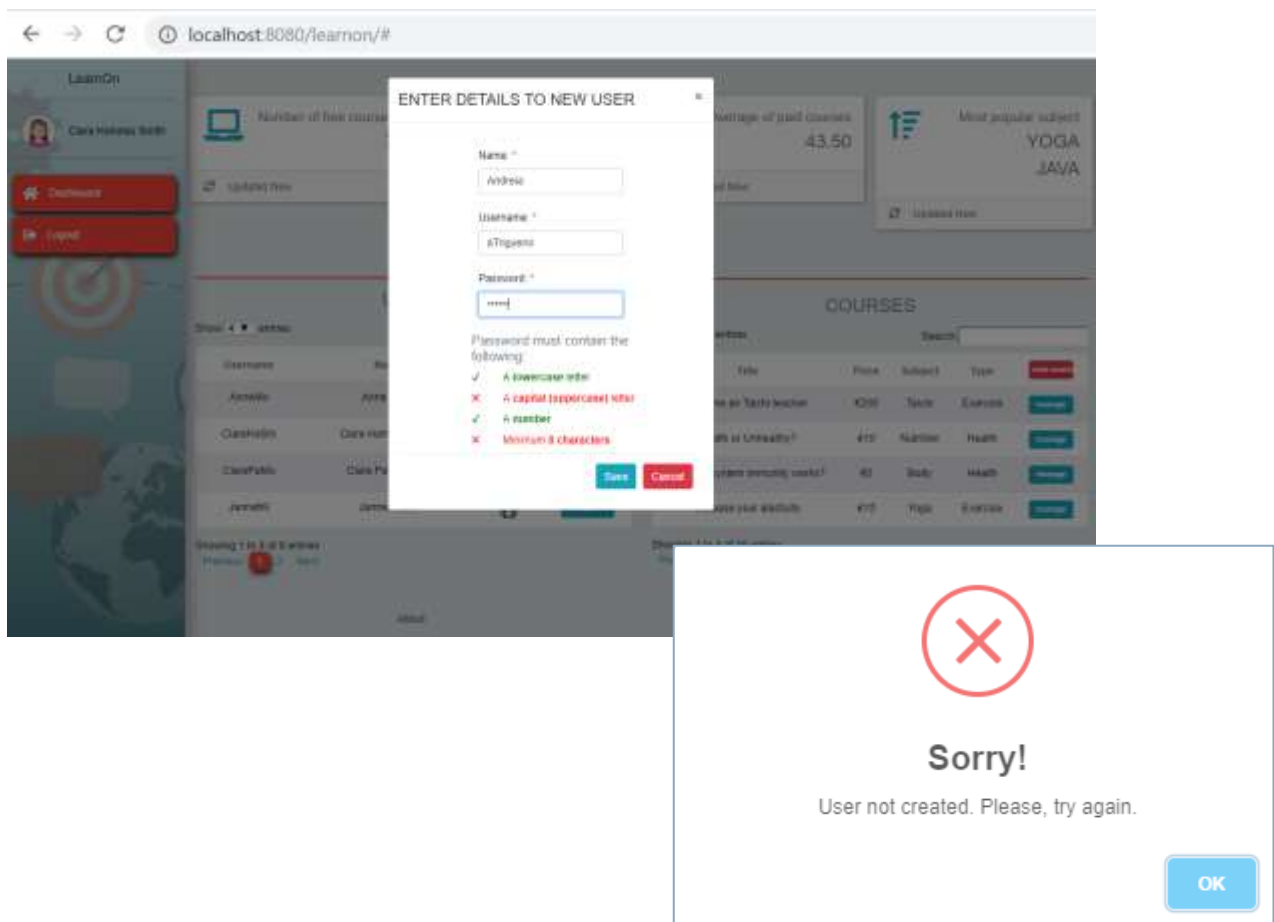


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USER STORY 4	As an Admin, I want to create a new user so that I can create an account to him.
SCENARIO 3	
TEST CASE ID	8
DESCRIPTION	No user created due inadequate password
PRECONDITIONS	The Application Server and Database Server is running The browser is open The user is logged in
ACTIONS	Press new user button Fill in all the fields, but password insufficient Press save button Press new user button
EXPECTED RESULTS	A window to enter the details to the new user appears informing the required fields The informations to the password appear No user is created and an error message appears All the previous data inserted is present

TEST STATUS – PASSED

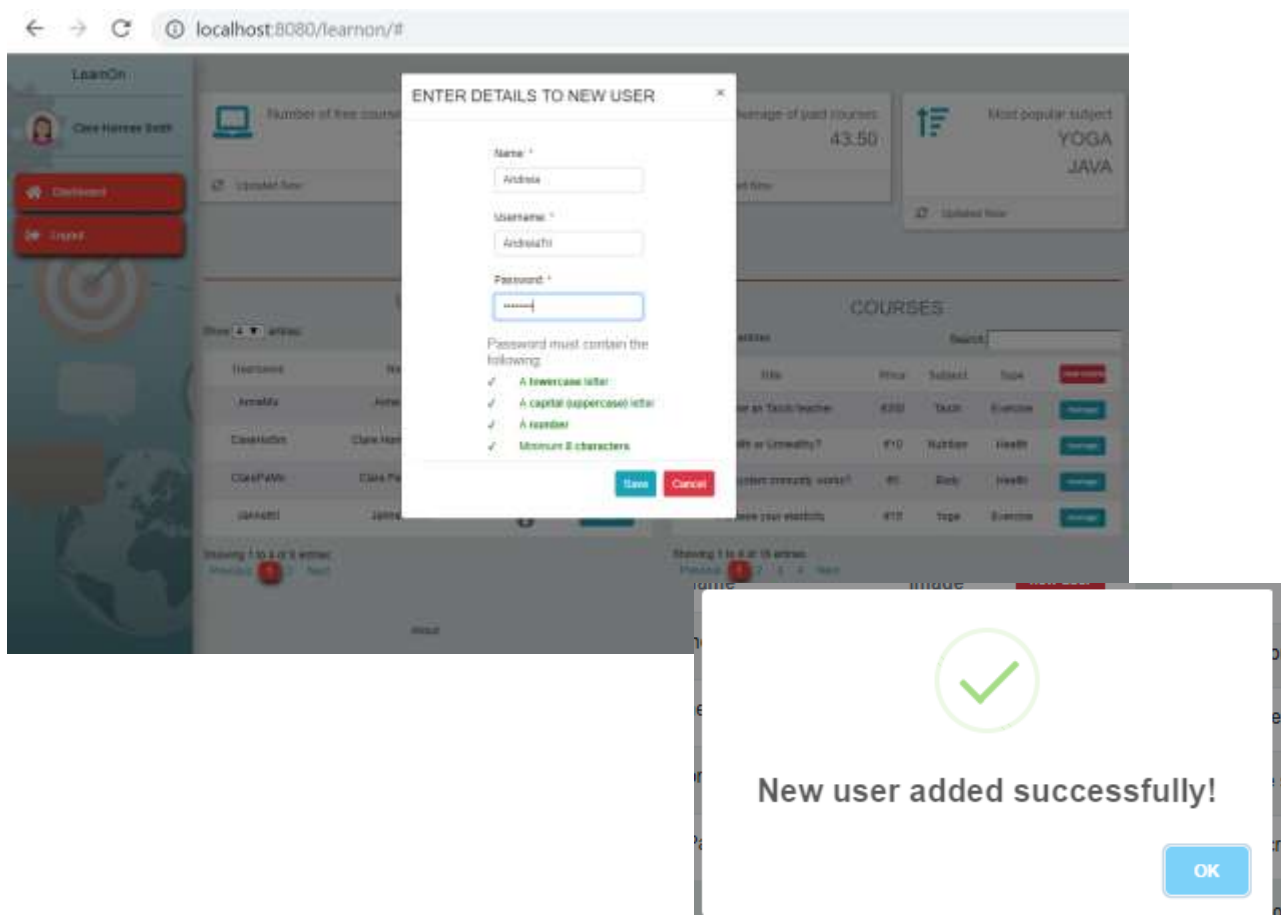


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USER STORY 4	As an Admin, I want to create a new user so that I can create an account to him.
SCENARIO 4	
TEST CASE ID	9
DESCRIPTION	New user created successfully
PRECONDITIONS	The Application Server and Database Server is running The browser is open The user is logged in
ACTIONS	Press new user button Fill in all the fields and a valid password Press save button Press new user button
EXPECTED RESULTS	A window to enter the details to the new user appears informing the required fields The informations to the password appear The user is created and a success message appears All the fields are cleared including the password indications

TEST STATUS – PASSED

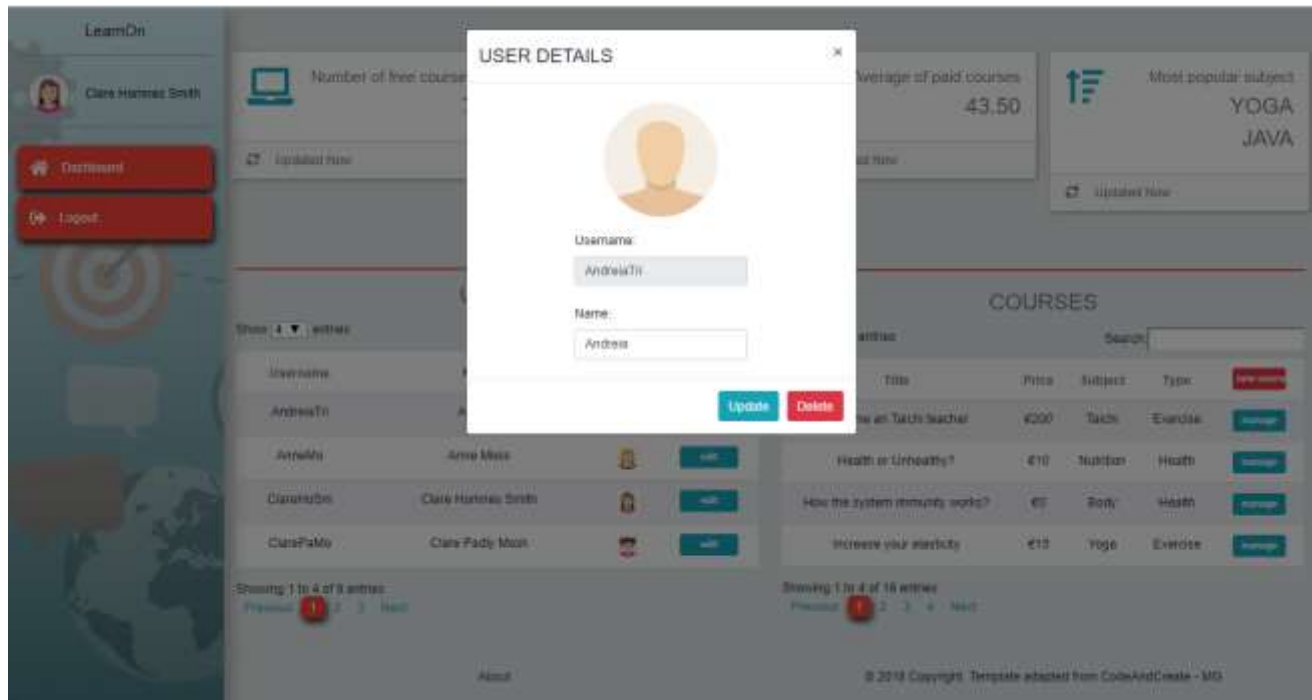


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USER STORY 5 SCENARIO 1	As an Admin, I want to edit a user so that I can see the details and also perform more actions in the selected user.
TEST CASE ID	10
DESCRIPTION	See the details for the selected user
PRECONDITIONS	The Application Server and Database Server is running The browser is open The user is logged in
ACTIONS	Press edit button
EXPECTED RESULTS	The user details appear A button to update and other to delete are also present

TEST STATUS – PASSED

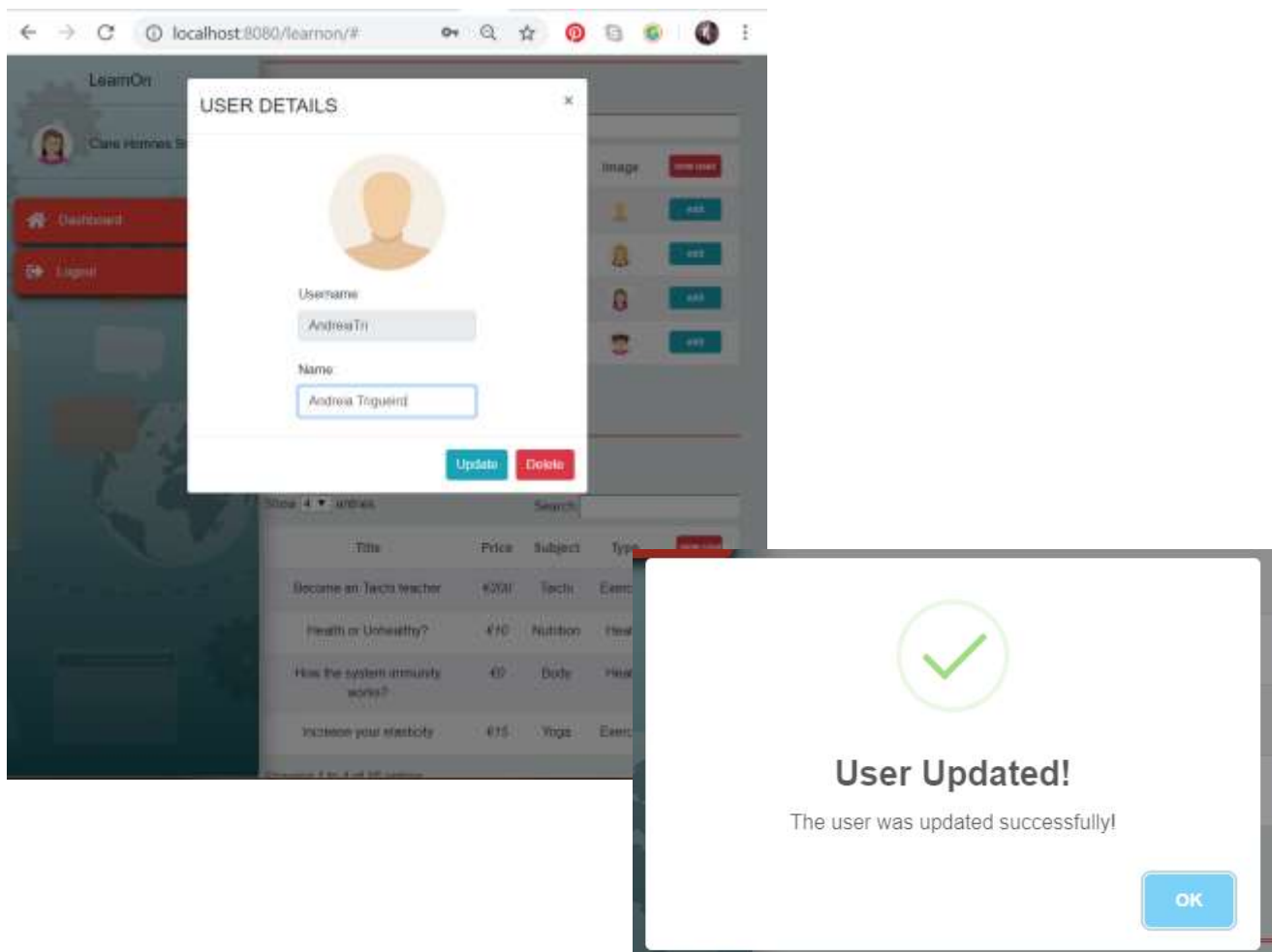


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SPRINT #2

USER STORY 6 SCENARIO 1	As an Admin, I want to update a user so that I can change any detail of the user.
TEST CASE ID	11
DESCRIPTION	Update successfully
PRECONDITIONS	The Application Server and Database Server is running The browser is open The user is logged in
ACTIONS	Press edit button Update the name field Press Update button
EXPECTED RESULTS	The user details appear The name field is enable to be updated The user is updated and a success message appear

TEST STATUS – PASSED

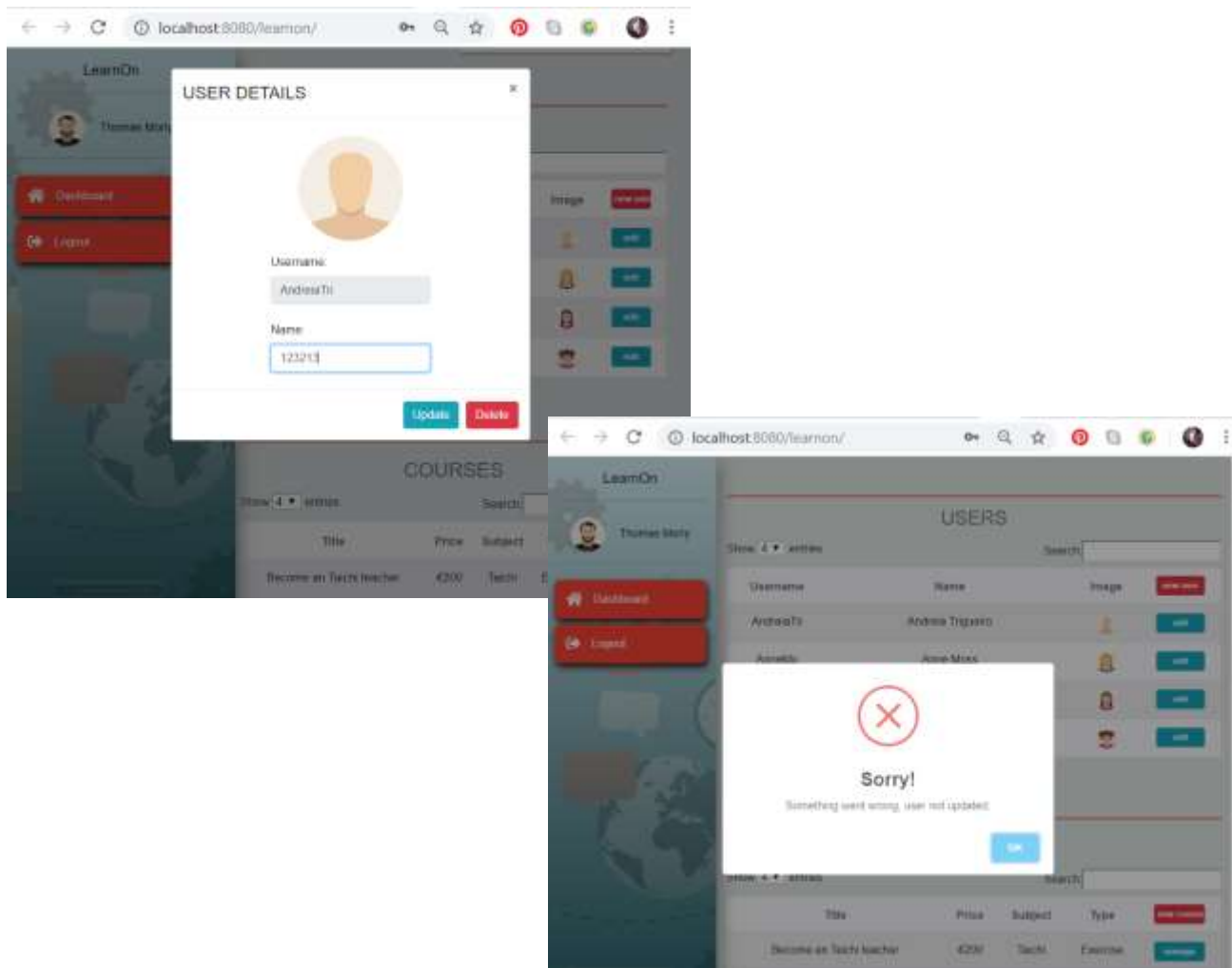


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SPRINT #2

USER STORY 6 SCENARIO 2	As an Admin, I want to update a user so that I can change any detail of the user.
TEST CASE ID	12
DESCRIPTION	Update unsuccessfully
PRECONDITIONS	The Application Server and Database Server is running The browser is open The user is logged in
ACTIONS	Press edit button Update the name field with numbers Press Update button
EXPECTED RESULTS	The user details appear The name field is enabled to be updated The user is not updated and an error message appear

TEST STATUS – PASSED

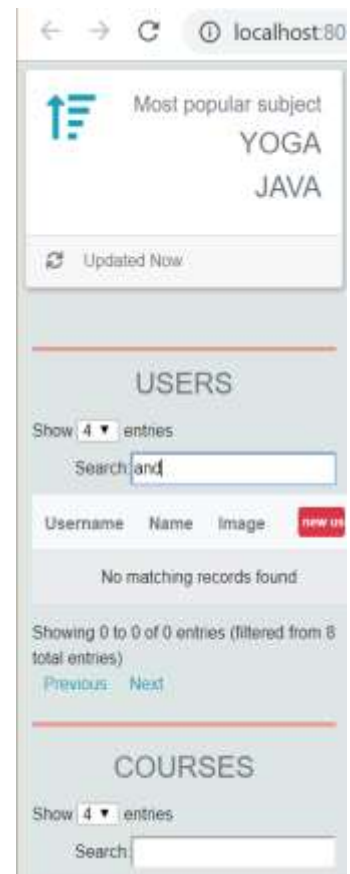
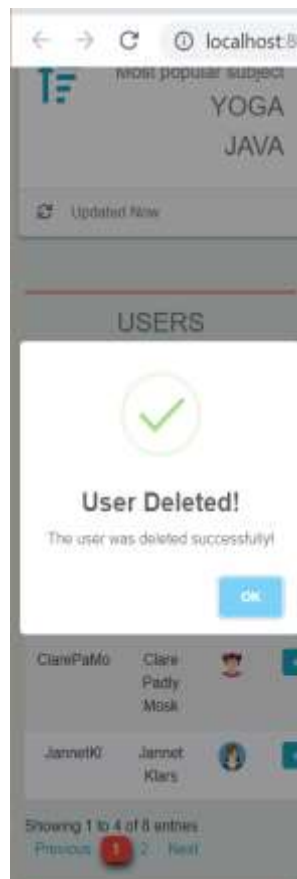
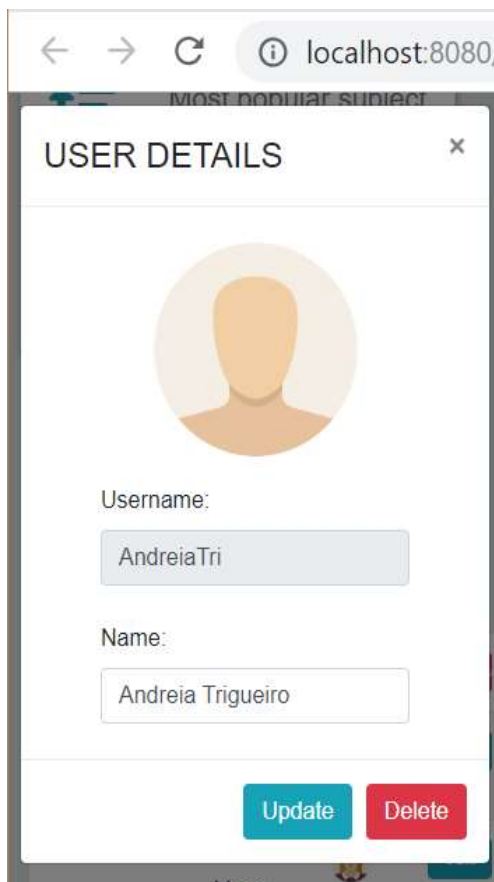


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USER STORY 7 SCENARIO 1	As an Admin, I want to delete a user so that I can block the access of the user deleted to the admin dashboard.
TEST CASE ID	13
DESCRIPTION	Delete a user successfully
PRECONDITIONS	The Application Server and Database Server is running The browser is open The user is logged in
ACTIONS	Press edit button related to the user that you pretend delete Press Delete button
EXPECTED RESULTS	The user is removed from table users (check it using the search box) A success message appears

TEST STATUS – PASSED

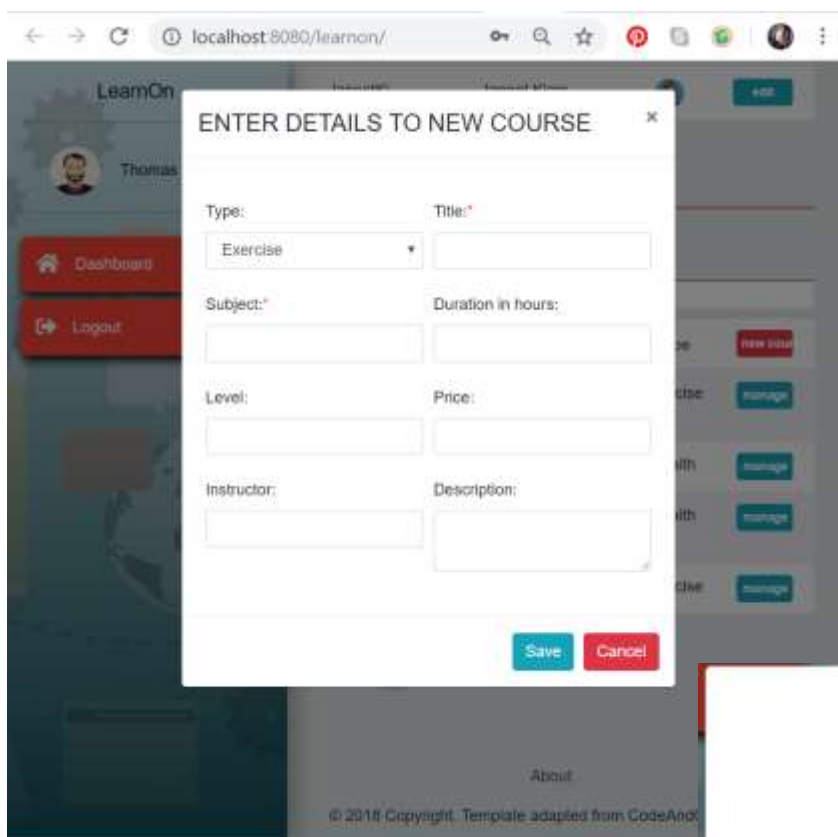


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USER STORY 8	As an Admin, I want the title and subject of any new course to be mandatory so that I can have this info shown on the table instead of blanks.
SCENARIO 1	
TEST CASE ID	14
DESCRIPTION	No course created due mandatory fields not fill in
PRECONDITIONS	The Application Server and Database Server is running The browser is open The user is logged in
ACTIONS	Press in new course button Press save button
EXPECTED RESULTS	A pop-up modal window appears with all the fields to be filled in The modal is closed and an error message informs that no course is added

TEST STATUS – PASSED



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USER STORY 8 SCENARIO 2	As an Admin, I want the title and subject of any new course to be mandatory so that I can have this info shown on the table instead of blanks.
TEST CASE ID	15
DESCRIPTION	Course created when mandatory fields are filled in
PRECONDITIONS	The Application Server and Database Server is running The browser is open The user is logged in
ACTIONS	Press in new course button Fill in the mandatory fields Press save button
EXPECTED RESULTS	A pop-up modal window appears with all the fields to be filled in The modal is closed and a success message informs that the course is added

TEST STATUS – PASSED

ENTER DETAILS TO NEW COURSE

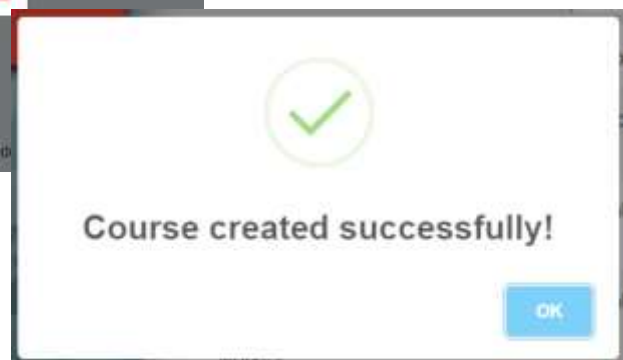
Type: Programming Title: Start with Python

Subject: Python Duration in hours:

Level: Price:

Instructor: Description:

Save Cancel

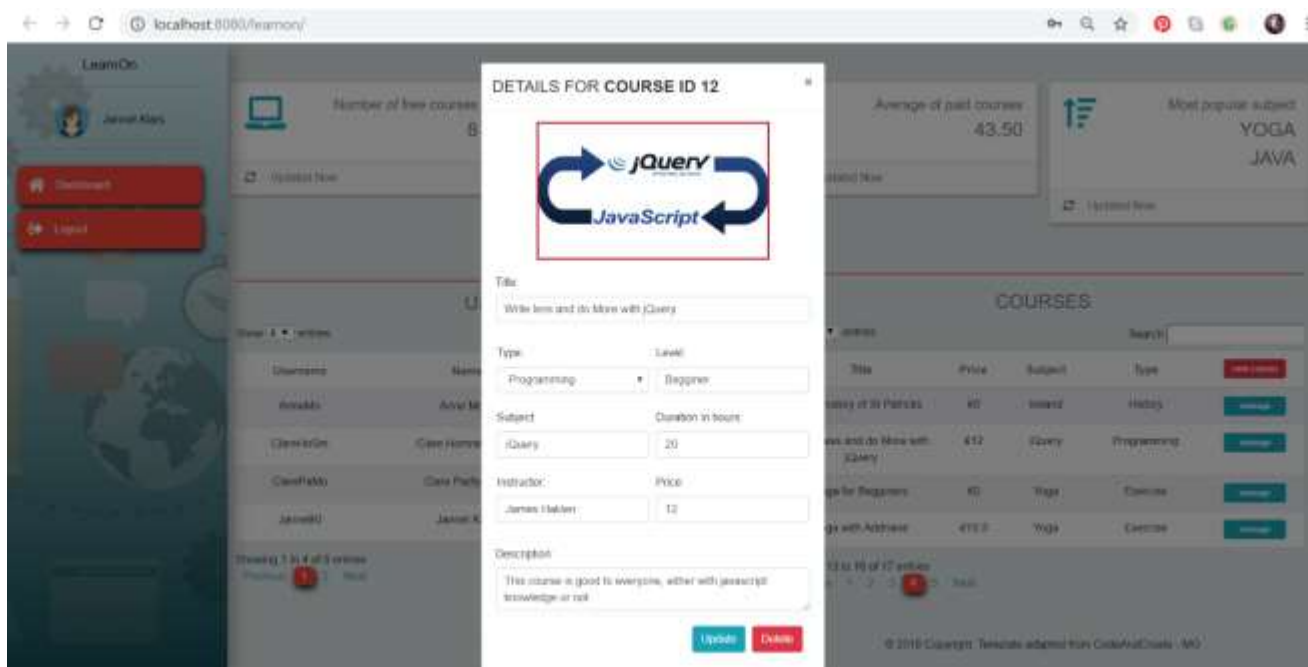


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USER STORY 9 SCENARIO 1	As an Admin, I want the course details with the ID on the modal title and the title and description with a bigger field so that I can read easily.
TEST CASE ID	16
DESCRIPTION	Course details easier to read
PRECONDITIONS	The Application Server and Database Server is running The browser is open The user is logged in
ACTIONS	Press in manage
EXPECTED RESULTS	A pop-up modal window appears with all the details information to the selected course and an update and cancel button. The title of the pop-up have the ID of the course, and the fields title and description have a bigger sized field.

TEST STATUS – PASSED



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4. TEST REPORT SUMMARY

TEST TYPE	TOTAL SCENARIOS	NUMBER PASSED	NUMBER FAILED
Manual	16	16	0
Arquillian	15	15	0

Imported (08-Apr-2019 18:07:43)

Element	Coverage	Covered Instructions	Missed Instructions	Total Instructions
learnon	41.9 %	687	951	1,638
src/test/java	9.6 %	101	951	1,052
src/main/java	100.0 %	586	0	586
com.ait.webtechnologies.project.learnon.data	100.0 %	128	0	128
CourseDAO.java	100.0 %	72	0	72
UserDAO.java	100.0 %	56	0	56
com.ait.webtechnologies.project.learnon.model	100.0 %	104	0	104
Course.java	100.0 %	73	0	73
User.java	100.0 %	31	0	31
com.ait.webtechnologies.project.learnon.rest	100.0 %	354	0	354
CourseWS.java	100.0 %	167	0	167
JaxRsActivator.java	100.0 %	3	0	3
UserWS.java	100.0 %	184	0	184

```
-----
T E S T S
-----
Running com.ait.webtechnologies.project.learnon.test.rest.CourseWSTest
Apr 08, 2019 6:04:55 PM org.xnio.Xnio <clinit>
INFO: XNIO version 3.2.0.Beta4
Apr 08, 2019 6:04:56 PM org.xnio.nio.NioXnio <clinit>
INFO: XNIO NIO Implementation Version 3.2.0.Beta4
Apr 08, 2019 6:04:56 PM org.jboss.remoting3.EndpointImpl <clinit>
INFO: JBoss Remoting version (unknown)
Tests run: 9, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 6.508 sec - in com.ait.webtechnologies.project.learnon.test.rest.CourseWSTest
Running com.ait.webtechnologies.project.learnon.test.rest.UserWSTest
Tests run: 6, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 3.3 sec - in com.ait.webtechnologies.project.learnon.test.rest.UserWSTest

Results :

Tests run: 15, Failures: 0, Errors: 0, Skipped: 0

[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 15.979 s
[INFO] Finished at: 2019-04-08T18:05:04+01:00
[INFO] -----
```

5. BUG REPORT

BUG ID	SOFTWARE VERSION	DESCRIPTION OF BUG	STEPS TO RE-CREATE BUG	STATUS
TC6 US4 SC1 BI1	2	After logout, when login with any user all the work (a search or a fields fill in) of the previous user is there	click on new course> fill in some fields> click on cancel> click on search user > fill in something > click on logout > login with any user	SOLVED
TC6 US4 SC1 BI2	2	The symbol of required fields (*) to the new user and new course is disappearing after cancel	click on new course / user > check the required symbol(*) > click on cancel > click on new course / user > check the required symbol (*)	SOLVED
TC8 US4 SC3 BI3	2	The indications about the password that is been created are not resetting after click on cancel or after create a user successfully	click on new user > fill in the password > click on cancel > click on new user > check the password indications	SOLVED
TC11 US6 SC1 BI4	2	When editing a user is possible update the name to numbers	click on edit > insert numbers in the name field > click on update	SOLVED

There are currently no known existing bugs in this project

6. APPLICATION EVALUATION

To match the project brief in each sprint I divided the content into points. Following are the checklist resulted of my understanding of the project:

ALL SPRINTS <ul style="list-style-type: none">✓ Use RESTful web services✓ Return all data in JSON format✓ Store in the database all information about users/admin and products✓ Application Manual Tested✓ Demo clear on the user stories✓ Submit write-up	SPRINT #0 <ul style="list-style-type: none">✓ Postman rest client to test the CRUD actions for users/admins and for a chosen product (courses)
SPRINT #1 <ul style="list-style-type: none">✓ UI Admin Dashboard✓ List all users and courses✓ CRUD for courses✓ Use Cards✓ Use Modal/Dialog boxes✓ Use DataTables✓ Fully Responsive✓ Application Automated Tested (Arquillian)	SPRINT #2 <ul style="list-style-type: none">✓ Have Login / Logout✓ Add CRUD for users✓ Fully Responsive✓ Application Automated Tested (Arquillian)

I felt that all the points were matched. Also during the development I felt that some details where important to the consistency¹, user experience (UX) and feel and look of the website, so I added it (and I believe with more one sprint was worthy to keep improving it). I am very happy with this project, because allowed me to understand the relation css – jQuery – html in more detail and also allowed me to try and test

¹ As example, do not allow to create a user with a name with numbers, the password validation, mandatory fields, clean fields just when save successful or cancel are pressed.

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different things and ideas. I enjoyed to work with the template, changed it and test it in the different responsive sizes / formats. I also get fun looking for solutions online and adapt them to my project.

Another improvement will be allow to choose the picture / image of the user and the course, either when creating or when updating them.

Just for fun, and to have functionality in all the existing buttons I added the following information in the about link / button:

The screenshot shows a web application interface with a modal window titled "PROJECT 2019". The modal contains the following information:

- COURSE:** Masters of Science in Applied Software Engineering
- SUBJECT:** Web Technologies
- LECTURER:** Mary Giblin
- STUDENT:** Andreia Trigueiro [A00258363]
- PROJECT GOAL:** Develop a Web Application using SPA architecture that achieves the following points:
 - ✓ Use RESTful web services
 - ✓ Have CRUD actions for a chosen product (courses)
 - ✓ Have CRUD actions for users/admins
 - ✓ Have Login/Logout
 - ✓ Use Cards
 - ✓ Use Modal/Dialog boxes
 - ✓ Use DataTables
 - ✓ Fully Responsive
 - ✓ Application Manual Tested
 - ✓ Application Automated Tested (Arquillian)
 - ✓ Store in the database all information about users/admin and products
- PROJECT ARCHITECTURE:**
 - Web Client:** HTML5, CSS3, JavaScript, jQuery, DataTables, Bootstrap
 - Server:** JAX-RS, EJB, JPA, JBoss
 - Database:** MySQL
 - Interactions:** HTTPRequest, HTTPResponse, Ajax Requests, JSON data

The background of the application shows a sidebar with "Dashboard" and "Logout" buttons, and a main area with a "new course" button and a table of courses.