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Test Case design USM

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Contents

INTRODUCTION

Document Purpose

The purpose of this document is to describe the current automated tests that have been developed for testing the Front end and Back End parts in the project UNIONVMS.

Tests regarding Front End have been developed in **PROTRACTOR** framework. PROTRACTOR is an end-to-end test framework for AngularJS applications. Test regarding the Back End have been developed in **ARQUILLIAN** framework.

The list of the programs corresponding to the tests is as follows:

1. applications-spec.js
2. organisations-spec.js
3. policies-spec.js
4. roles-spec.js
5. login-spec.js
6. changePassword-spec.js
7. securityAnswers-spec.js
8. resetPasswordSecurityAnswers-spec.js
9. account-spec.js
10. duplicateUserProfile-spec.js
11. setPassword-spec.js
12. changes-spec.js
13. userRoles-spec.js

And the following table shows the relationships between the tests and the USM modules, the User stories and the corresponding functional requirements:

USM Module	Folder	Tests	Pages	USER STORY	Requeriment
applications	applications	applications-spec.js	applicationsPage.js	USM-08 View applications	Create and manage DB functions and procedures
organisations	organisations	organisations-spec.js	endpointsChannelsPage.js	USM-10 View organisations / USM-11 Manage organisations	Create organization / Manage endpoints with organizations
			endpointsContactsPage.js		
			organisationsDetailsPage.js		
			organisationsPage.js		
policies	policies	policies-spec.js	policiesPage.js	SEC-09 Configure pwd policy	Make expiration period configurable / Make password expiration warning behaviour configurable / Make password requirements and complexity settings configurable / Make the number of log-on attempts configurable / Reset password at expiration
roles	roles	roles-spec.js	rolesPage.js	USM-15 View roles / USM-16 Manage roles	Create and edit user roles / Add permissions / Assign user rights / Define dynamic roles / Configure and update access rights
scenarios	scenarios				
shared	shared	login-spec.js	loginPage.js	SEC-01 Authenticate users	Access based on name and password
		changePassword-spec.js	menuPage.js	USM-05 Amend user login password	Amend information from user account
		securityAnswers-spec.js		USM-06 Amend user security information	Amend information from user account
				SEC-10 Reset password	Create a process to reset the password
users	account	account-spec.js	accountDetailsPage.js	USM-02 Manage accounts	Create user account / Update user account / View and manage users list
		duplicateUserProfile-spec	usersPage.js	USM-14 Copy profiles	Copy and assign user profiles
		setPassword-spec.js		USM-25 Admin user can set user password	
	changes	changes-spec.js	changesPage.js	USM-04 Amend user contact details	Manage user account information
	contactDetails				
	preferences				
	userRoles	userRoles-spec.js		USM-17 Manage User Context	Add permissions / Assign roles to
		resetPasswordSecurityAnswers-spec.js		SEC-10 Reset password	Create a process to reset the password

TESTING THE WEB INTERFACE
2.1. Test the reset password

2.1.1. TC1 Set the Security questions

1. Test Case ID	TC1
2. Title	Set the Security questions
3. Description	To set the Security questions of a certain user.
4. Test objective : a. User Story	USM-06 Amend user security information
b. Functional requirement	Amend information from user account
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test user data is well defined in the data base. 2. The test user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	Log in the USM portal with the username and password: Username: **USM_TEST_1** Password: **password**100** 2. Activate the "*Login*" button.
Result 1	The user is successfully logged in the USM portal.
7. Step/Action2	Select the option "*Change Security Answer*" in the *"User"* menu of USM.
Result 2	The *"Change Your Security Answers"* panel appears.
8. Step/Action3	1.Introduce the following values for the questions and answers: Question 1: **What is your favourite movie?** Answer 1: **White** Question 2: **What was the name of your first pet?** Answer 2: **Churrina** Question 3: **What was the model of your first car?** Answer 3: **Seat Panda** Current Password: **password**100** 2. Activate the "*Save*" button.

Result 3	The *"Change Your Security Answers"* panel displays a successful message. The Security Questions/Answers for the test user are successfully saved in the data base.
9. Test case Execution Time	10 seconds
10. Execution scripts	
11. Test environments	Acceptance

2.1.2. TC2 Test values of the "Reset password" and "Set new password" panels

1. Test Case ID	TC2
2. Title	**Test values of the "*Reset password*" and "*Set new password*" panels**
3. Description	**Test the values of the "*Reset password*" and "*Set new password*" panels with a wrong new password.**
4. Test objective : **a. User Story**	
b. Functional requirement	To reset the password by introducing the Security answers.
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test user data is well defined in the data base. 2. The test user successfully accesses to the portal USM and the Login panel is displayed. 3. TC1 must be executed first.
6. Step/Action1	Select the "*forgotten password*" link in the Login panel.
Result 1	The *"Reset password"* panel appears.

7. Step/Action2	To inspect in the *"Reset password"* panel that:
	   1. The title of the panel: **Reset password**
	   2. The label of the panel: **Username**

Result 2	The values are correct.
8. Step/Action3	1. Introduce the following value in the *"Reset password"* panel: Username : **USM_TEST_1**

	2. Activate the "*Reset password"* button.
Result 3	The "*Set new password*" panel appears. The questions displayed in the panel are: **What is your favourite movie? What was the name of your first pet? What was the model of your first car?**
9. Step/Action4	a. To inspect in the *"Set new password"* panel that: 1. The title of the panel: **Set new password** 2. The 1st label of the panel: **Security questions:** 3. The 2nd label of the panel: **Answer:** 4. The 3rd label of the panel: **Answer:** 5. The 4th label of the panel: **Answer:** 6. The 5th label of the panel: **New Password** 7. The 6th label of the panel: **Confirm Password** b. To introduce in the "*Set new password*" panel the values: 1. Answer: **White** 2. Answer: **Churrina** 3. Answer: **Seat Panda** 4. New Password: **aa** 5. Confirm Password: **aa** Where **aa** is a password that does not obey the password policies. c. Activate the "*Save*" button.
Result 4	The values are correct. The panel displays the error message: `Password must contain at least 8 characters`
10. Test case Execution Time	10 seconds
11. Execution scripts	
12. Test environments	Acceptance

2.1.3. TC3 Test the reset of password by giving a wrong answer.

1. Test Case ID	TC3
2. Title	**Test the reset password by giving a wrong answer.**
3. Description	**Test the "*Set new password*" panel giving a wrong answer and inspect the error message.**
4. Test objective : **a. User Story**	SEC-10 Reset password

b. Functional requirement	Create a process to reset the password
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test user data is well defined in the data base. 2. The test user successfully accesses to the portal USM and the Login panel is displayed. 3. TC1 must be executed first.
6. Step/Action1	Select the "*forgotten password*" link in the Login panel.
Result 1	The *"Reset password"* panel appears.
7. Step/Action2	1. Introduce the following value in the *"Reset password"* panel: Username : **USM_TEST_1** 2. Activate the "*Reset password*" button.
Result 2	The "*Set new password*" panel appears. The questions displayed in the panel are: **What is your favourite movie?** **What was the name of your first pet?** **What was the model of your first car?**

8. Step/Action3	1. To introduce in the "*Set new password*" panel the values:
	   a. Answer: **White**
	   b. Answer: **Churrina**
	   c. Answer: **Mercedes**
	   d. New Password: **password**101**
	   e. Confirm Password: **password**101**
	
	Where **Mercedes** is a wrong answer.
	
	2. Activate the "*Save*" button.

Result 3	The panel displays the error message: `Invalid security answers`
9. Test case Execution Time	10 seconds
10. Execution scripts	
11. Test environments	Acceptance

2.1.4. TC4 Test the reset of password with security questions.

1. Test Case ID	TC4
2. Title	Test the reset of password with security questions

3. Description	Test the reset of password by answering properly the security questions
4. Test objective : **a. User Story**	SEC-10 Reset password
b. Functional requirement	Create a process to reset the password
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test user data is well defined in the data base. 2. The test user successfully accesses to the portal USM and the Login panel is displayed. 3. TC1 must be executed first.
6. Step/Action1	Select the "*forgotten password*" link in the Login panel.
Result 1	The *"Reset password"* panel appears.
7. Step/Action2	1. Introduce the following value in the *"Reset password"* panel: Username : **USM_TEST_1** 2. Activate the "*Reset password*" button.
Result 2	The "*Set new password*" panel appears. The questions displayed in the panel are: **What is your favourite movie?** **What was the name of your first pet?** **What was the model of your first car?**

8. Step/Action3	1. To introduce in the "*Set new password*" panel the values:
	    a. Answer: **White**
	    b. Answer: **Churrina**
	    c. Answer: **Seat Panda**
	    d. New Password: **password**101**
	    e. Confirm Password: **password**101**
	
	2. Activate the "*Save*" button.

Result 3	The "*Set new password*" panel displays a successful message: `The new password has been set.`
9. Test case Execution Time	10 seconds
10. Execution scripts	
11. Test environments	Acceptance

2.1.5. TC5 Test to enter with the new password

1. Test Case ID	TC5
2. Title	Test to enter with the new password
3. Description	Test to enter with a new password that has been set by answering properly the security questions
4. Test objective : a. User Story	SEC-10 Reset password
b. Functional requirement	Create a process to reset the password
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test user data is well defined in the data base. 2. The test user successfully accesses to the portal USM and the Login panel is displayed. 3. TC1 and TC4 must be executed first.

6. Step/Action1	1. To introduce in the "Login" panel the values:
	
	    Username : **USM_TEST_1**
	    Password: **password**101**
	
	2. Activate the "*Login"* button.

Result 1	The user successfully accesses to the USM portal and can restore the previous password from the *"Change password"* option in the User's menu.
10. Test case Execution Time	10 seconds
11. Execution scripts	
12. Test environments	Acceptance

2.1.6. TC6 Test the reset of password without security questions.

1. Test Case ID	TC6
2. Title	Test the reset of password without security questions
3. Description	Test the reset of password with a user that does not have security questions
4. Test objective : a. User Story	SEC-10 Reset password
b. Functional requirement	Create a process to reset the password

c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test user data is well defined in the data base. 2. The test user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	Select the "*forgotten password*" link in the Login panel.
Result 1	The "*Reset password*" panel appears.
7. Step/Action2	1. Introduce the following value in the "*Reset password*" panel: Username : **USM_TEST_2** 2. Activate the "*Reset password*" button.
Result 2	The "*Reset password*" panel displays a successful message: `A new password has been sent to your email address`
8. Test case Execution Time	10 seconds
9. Execution scripts	
10. Test environments	Acceptance

2.1.7. TC7 Test the reset of password with a disabled user.

1. Test Case ID	TC7
2. Title	Test the reset of password with a disabled user.
3. Description	Test the reset of password with a user that is disabled. The system should display an error message.
4. Test objective : a. User Story	SEC-10 Reset password
b. Functional requirement	Create a process to reset the password
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	The test user data is well defined in the data base, the test user is disabled.
6. Step/Action1	Select the "*forgotten password*" link in the Login panel.
Result 1	The "*Reset password*" panel appears.
7. Step/Action2	1. Introduce the following value in the "*Reset password*" panel:

	Username : **USM_TEST_3** 2. Activate the "*Reset password"* button.
Result 2	The "*Reset password*" panel displays a successful message: **Error: Unauthorized Exception: User status is disabled**
8. Test case Execution Time	10 seconds
9. Execution scripts	
10. Test environments	Acceptance

2.2 Test the panel of changing the Security Questions/Answers

2.2.1 TC8 Test the change of the Security Questions/Answers with success

1. Test Case ID	TC8
2. Title	Test the change of the Security questions/answers with success
3. Description	Test the change of questions/answers of a user with success
4. Test objective : **a. User story**	USM-06 Amend user security information
b. Functional requirement	Amend information from user account
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test user data is well defined in the data base. 2. The test user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1.Log in the USM portal with the username and password: Username: **usm_admin** Password: **password** 2. Choose the **USM-User Manager - (no scope)** context
Result 1	The user successfully enters in USM portal with the profile of User Manager.
7. Step/Action2	Select the option "*Change Security Answer"* in the *"User"* menu of USM.

Result 2	The *"Change Security Answer"* panel appears.
8. Step/Action3	a. To inspect in the *"Set new password"* panel that: 1. The title of the panel: **Change Your Security Answers** 2. The 1st label of the panel: **Question 1** 3. The 2nd label of the panel: **Answer 1** 4. The 3rd label of the panel: **Question 2** 5. The 4th label of the panel: **Answer 2** 6. The 5th label of the panel: **Question 3** 7. The 6th label of the panel: **Answer 3** 8. The 6th label of the panel: **Current Password** b. Introduce the following values for the questions and answers: Question 1: **What is your favourite movie?** Answer 1: **White** Question 2: **What was the name of your first pet?** Answer 2: **Churrina** Question 3: **What was the model of your first car?** Answer 3: **Seat Panda** Current Password: **password** 2. Activate the "*Save*" button.
Result 3	The values are correct. The *"Change Your Security Answers"* panel displays a successful message. The Security Questions/Answers for the test user are successfully saved in the data base.
9. Test case Execution Time	10 seconds
10. Execution scripts	
11. Test environments	Acceptance

2.2.2 TC9 Test the error message of repeating questions

1. Test Case ID	TC9
2. Title	Test the error message of repeating questions
3. Description	Test the error message of repeating questions by changing the questions/answers of a user.

4. Test objective : **a. User story**	USM-06 Amend user security information
b. Functional requirement	Amend information from user account
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test user data is well defined in the data base. 2. The test user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_admin** Password: **password** 2. Choose the **USM-User Manager - (no scope)** context
Result 1	The user successfully enters in USM portal with the profile of User Manager.
7. Step/Action2	Select the option *"Change Security Answer"* in the *"User"* menu of USM.
Result 2	The *"Change Security Answer"* panel appears.

8. Step/Action3	1. Introduce the following values for the questions and answers:
	
	   Question 1: **What is your favourite movie?**
	   Answer 1: **White**
	   Question 2: **What is your favourite movie?**
	   Answer 2: **Churrina**
	   Question 3: **What was the model of your first car?**
	   Answer 3: **Seat Panda**
	   Current Password: **password**
	
	Where *Question 2* is the same choose than *Question 1*.
	
	2. Activate the "*Save*" button.

Result 3	The "*Change Your Security Answers*" panel displays a the error message: **The same question cannot be used multiple times**
9. Test case Execution Time	5 seconds
10. Execution scripts	
11. Test environments	Acceptance

2.2.3   TC10 Test the error message of short answers

1. Test Case ID	TC10
2. Title	Test the error message of short answers
3. Description	Test the error message of short answers by writing a short answer in the change of security questions/answers of a user
4. Test objective : **a. User story**	USM-06 Amend user security information
b. Functional requirement	Amend information from user account
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test user data is well defined in the data base. 2. The test user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_admin** Password: **password** 2. Choose the **USM-User Manager - (no scope)** context
Result 1	The user successfully enters in USM portal with the profile of User Manager.
7. Step/Action2	Select the option *"Change Security Answer"* in the *"User"* menu of USM.
Result 2	The *"Change Security Answer"* panel appears.
8. Step/Action3	1. Introduce the following values for the questions and answers: Question 1: **What is your favourite movie?** Answer 1: **White** Question 2: **What is your favourite movie?** Answer 2: **AA** Question 3: **What was the model of your first car?** Answer 3: **Seat Panda** Current Password: **password** Where *Answer2* is too short**.** 2. Activate the "*Save*" button.
Result 3	The "*Change Your Security Answers*" panel displays a the error message: `setChallenge.response2 is too short`

	(min 3)
9. Test case Execution Time	5 seconds
10. Execution scripts	
11. Test environments	Acceptance

2.3   Test the login

2.3.1. TC11 Test the login with an invalid password

1. Test Case ID	TC11
2. Title	Test the login with an invalid password
3. Description	Test the login panel with an invalid password and inspect the error message
4. Test objective : **a. User Story**	USM-06 Amend user security information
b. Functional requirement	Amend information from user account
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test user data is well defined in the data base. 2. The test user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. To log in the USM portal with the values: Username: **vms_user_com** Password: **wrong** 2. Activate the "*Login*" button.
Result 1	The panel displays the error message: **Error: Invalid credentials**
7. Test case Execution Time	5 seconds
8. Execution scripts	
9. Test environments	Acceptance

2.3.2. TC12 Test the login with an invalid username

1. Test Case ID	TC12
2. Title	Test the login with an invalid username
3. Description	Test the login panel with an invalid username and inspect the error message
4. Test objective : a. User Story	USM-06 Amend user security information
b. Functional requirement	Amend information from user account
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test user data is well defined in the data base. 2. The test user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1.To log in the USM portal with the values: Username: **nimda_msu** Password: **password** 2. Activate the "*Login*" button.
Result 1	The panel displays the error message: `Error: Invalid credentials`
9. Test case Execution Time	5 seconds
10. Execution scripts	
11. Test environments	Acceptance

2.3.3. TC13 Test the login panel with valid credentials

1. Test Case ID	TC13
2. Title	Test the login with an invalid username
3. Description	Test the login panel with an invalid username and inspect the error message
4. Test objective : a. User Story	USM-06 Amend user security information
b. Functional requirement	Amend information from user account
c. Business Rule	

d. Non-Functional requirement	
5. Pre Condition(s)	1. The test user data is well defined in the data base. 2. The test user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. To log in the USM portal with the values: Username: **vms_user_com** Password: **password** 2. Activate the "*Login*" button.
Result 1	The panel displays a successfully message.
7. Step/Action2	To inspect that the current page is http://localhost:9001/app/#/usm/home
Result 2	It is validated.
7. Step/Action3	To open the "*Log out*" option in the User's menu.
Result 3	The user is successfully logged out from the USM portal and the current page is http://localhost:9001/app/#/usm/logout
9. Test case Execution Time	8 seconds
10. Execution scripts	
11. Test environments	Acceptance

2.4   Test the change of the user password

2.4.1. TC14 Test the change of the user password with a too short password

1. Test Case ID	TC14
2. Title	Test the change of the user password with a too short password
3. Description	Test the change of the user password with a too short password and inspect the error message.
4. Test objective : **a. User Story**	USM-05 Amend user login password
b. Functional requirement	Amend information from user account
c. Business Rule	

d. Non-Functional requirement	
5. Pre Condition(s)	1. To inspect if the test user to change his password exists in the USER's table. If he does not exist the test creates the user data. 2. The test user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_user2** Password: **password12!@** 2. Activate the "*Login*" button.
Result 1	The user successfully enters in USM portal.
7. Step/Action2	Select the option "*Change Password*" in the User menu of USM.
Result 2	The "*Change Password*" panel appears.
8. Step/Action3	1 Introduce the following values for the *"Change Password"* panel: Old Password: **password12!@** New Password: **pas*1** Confirm New Password: **pas*1** 2. Activate the "*Save*" button.
Result 3	The panel displays the error message: **Error: Password must contain at least 8 characters**
9. Test case Execution Time	5 seconds
10. Execution scripts	
11. Test environments	Acceptance

2.4.2. TC15 Test the change of the user password with a proper password

1. Test Case ID	TC15
2. Title	Test the change of the user password with a proper password
3. Description	Test the change of the user password with a proper password and inspect the successful message.
4. Test objective : **a. User Story**	SEC-10 Reset password
b. Functional requirement	Amend information from user account

c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. To inspect if the test user to change his password exists in the USER's table. If he does not exist the test creates the user data. 2. The test user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_user2** Password: **password12!@** 2. Activate the "*Login*" button.
Result 1	The user successfully enters in USM portal.
7. Step/Action2	Select the option "*Change Password*" in the User menu of USM.
Result 2	The "*Change Password*" panel appears.
8. Step/Action3	1 Introduce the following values for the *"Change Password"* panel: Old Password: **password12!@** New Password: **a valid password randomly generated** Confirm New Password: **a valid password randomly generated** 2. Activate the "*Save*" button.
Result 3	The panel displays a successful message. The password can be restored to the previous one.
9. Test case Execution Time	5 seconds
10. Execution scripts	
11. Test environments	Acceptance

2.5 Test the set of password of a user

2.5.1. TC16 Test the set of password of a user

1. Test Case ID	TC16
2. Title	Test the set of password of a user
3. Description	Test the change of the user password with a too short password and inspect the error message. For this purpose a test administrator user will change the password of a test user.

4. Test objective : **a. User Story**	USM-25 Admin user can set user password
b. Functional requirement	Create password creation policy
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_admin** Password: **password** 2. Choose the **USM-User Manager - (no scope)** context. **3. To select the option of Users in the menu.**
Result 1	The user successfully enters in USM portal with the profile of User Manager. The main table of Users is displayed.
7. Step/Action2	1. To introduce in the *Users* search panel the value: Name search: **vms_user_fra** 2. Activate the "*Search*" button.
Result 2	The *Users* table displays a record with the corresponding value.
8. Step/Action3	To activate the "*Eye icon*" button in the record of the *Users* table.
Result 3	The "*User Details"* page opens.
9. Step/Action4	To press the "*Set Password*" button corresponding to the "*Contact and Status Details*" tab.
Result 4	The "*Set Password*" panel opens.

10. Step/Action5	1. To introduce in the "*Set Password*" panel the values:
	
	    Password: **pas*1**
	    Confirm Password: **pas*1**
	
	2. Activate the "*Save*" button.

Result 5	The "*Set Password*" panel displays a successful message: `Error: Password must contain at least 8 characters`

11. Step/Action6	1. To introduce in the "*Set Password*" panel the values: Password: **a valid password randomly generated** Confirm Password: **a valid password randomly generated** 2. Activate the "*Save*" button.
Result 6	1. The "*Set Password*" panel displays a successful message. 2. The test user can enter in USM with the new password.
9. Test case Execution Time	10 seconds
10. Execution scripts	
11. Test environments	Acceptance

2.6   Test manage accounts

2.6.1. TC17 Test the creation of an account

1. Test Case ID	TC17
2. Title	Test the creation of an account
3. Description	Test the creation of an account by a user with permissions.
4. Test objective : a. User Story	USM-02 Manage accounts
b. Functional requirement	Create user account
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_admin** Password: **password** 2. Choose the **USM-User Manager - (no scope)** context. **3. To select the *Users* option in the menu.**

Result 1	The user successfully enters in USM portal with the profile of User Manager. The main table of *Users* is displayed.
7. Step/Action2	To press the "*New User*" button in the *Users* table.
Result 2	The *"New User"* panel opens.
8. Step/Action3	1.Introduce in the *"New User"* panel the values: Username: **a valid username randomly generated** First Name: **FirstName** Last Name: **LastName** Email: **aa@aa.es** Organisation: **FRA** Status: **Enabled** 2. Activate the "*Save*" button.
Result 3	The *"New User"* panel displays a successful message. The new account is successfully saved in the data base.
9. Test case Execution Time	10 seconds
10. Execution scripts	
11. Test environments	Acceptance

2.6.2. TC18 Test the modification of an account

1. Test Case ID	TC18
2. Title	Test the modification of an account
3. Description	Test the modification of an existing account by a user with permissions.
4. Test objective : **a. User Story**	USM-02 Manage accounts
b. Functional requirement	Update user account
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. TC17 must be executed first.

	3. The test administrator user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_admin** Password: **password** 2. Choose the **USM-User Manager - (no scope)** context. **3. To select the *Users* option in the menu.**
Result 1	The user successfully enters in USM portal with the profile of User Manager. The main table of *Users* is displayed.
7. Step/Action2	1. To introduce in the *Users* search panel the value: Name search: **username previously generated** 2. Activate the "*Search*" button.
Result 2	The *Users* table displays a record with the information: Username: **username previously generated** First Name: **FirstName** Last Name: **LastName** Email: **aa@aa.es** Organisation: **FRA** Status: **Enabled**
8. Step/Action3	1. To activate the "*Pencil icon*" button in the record.
Result 3	The *"Edit User"* panel opens. It contains the values: Username: **username previously generated** First Name: **FirstName** Last Name: **LastName** Email: **aa@aa.es** Organisation: **FRA** Status: **Enabled**
9. Step/Action4	1. To press the *"Edit"* button in the *"Edit User"* panel. 2. To introduce the value: Phone Number: **21111** 2. Activate the "*Save*" button.
Result 4	In the main table of *Users* the record has been successfully updated.
9. Test case Execution Time	10 seconds

10. Execution scripts	
11. Test environments	Acceptance

2.7 Test Organisations

2.7.1. TC19 Test view Organisations

1. Test Case ID	TC19
2. Title	Test view Organisations
3. Description	Test the main page of Organisations.
4. Test objective : a. User Story	USM-10 View organisations
b. Functional requirement	Create organization
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_admin** Password: **password** 2. Choose the **USM-User Manager - (no scope)** context. **3. To select the *Organisations* option in the menu.**
Result 1	The user successfully enters in USM portal with the profile of User Manager. The main table of *Organisations* is displayed.
7. Step/Action2	1. To introduce in the *Organisations* search panel the values: Name: **FRA** Nation: **FRA** Status: **Enabled** 2. Activate the "*Search*" button.

Result 2	The *Organisations* table displays a record with the corresponding values.
9. Test case Execution Time	10 seconds
10. Execution scripts	
11. Test environments	Acceptance

2.7.2. TC20 Test view Organisations details and endpoints

1. Test Case ID	TC20
2. Title	Test view Organisations details and endpoints
3. Description	Test the page of Organisations details and Endpoints for a certain organisation.
4. Test objective : **a. User Story**	USM-10 View organisations
b. Functional requirement	Create organization Manage endpoints with organizations
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_admin** Password: **password** 2. Choose the **USM-User Manager - (no scope)** context. **3. To select the *Organisations* option in the menu.**
Result 1	The user successfully enters in USM portal with the profile of User Manager. The main table of *Organisations* is displayed.
7. Step/Action2	1. To introduce in the *Organisations* search panel the values: Name: **GRC** Nation: **GRC** Status: **Enabled** 2. Activate the "*Search*" button.

Result 2	The *Organisations* table displays a record with the information: Name: **GRC** Description: **Greek ministry of agriculture** Nation: **GRC**
8. Step/Action3	To activate the *"Eye icon"* button in the record of the *Organisations* table.
Result 3	The *"Organisation Details"* page opens. In the *Endpoint*s table two records appear with the following information: First record: Name: **FLUX.GRC** Description: **Main FLUX node for Greece** URI: **http://main.flux.gr/** Second record: Name: **FLUX.GRC_backup** Description: **Backup FLUX node for Greece** URI: **http://backup.flux.gr/**
8. Step/Action3	To activate the *"Eye icon"* button in the first record of the *Endpoints* table.
Result 3	The *Endpoint* page appears.
9. Test case Execution Time	10 seconds
10. Execution scripts	
11. Test environments	Acceptance

2.7.3. TC21 Test create an Organisation

1. Test Case ID	TC21
2. Title	Test create an Organisation
3. Description	Test the creation of a new Organisation.
4. Test objective : **a. User Story**	USM-11 Manage organisations
b. Functional requirement	Create organization
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user successfully accesses to the portal

	USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_admin** Password: **password** 2. Choose the **USM-User Manager - (no scope)** context. **3. To select the *Organisations* option in the menu.**
Result 1	The user successfully enters in USM portal with the profile of User Manager. The *Organisations* table is displayed.
7. Step/Action2	To press the "*New*" button in the *Organisations* table.
Result 2	The *"New Organisation"* panel opens.
8. Step/Action3	1.Introduce in the *"New Organisation"* panel the values: Name: **protractorOrg** Description: **new org description** Nation: **EEC** Status: **Enabled** Email: **newOrg@email.com** 2. Activate the *"Save"* button.
Result 3	The *"New Organisation"* panel displays a successful message and closes. A new record for the new Organisation is created in the *Organisations* table and can be searched.
9. Test case Execution Time	10 seconds
10. Execution scripts	
11. Test environments	Acceptance

2.7.4. TC22 Test the modification of an Organisation

1. Test Case ID	TC22
2. Title	Test the modification of an Organisation

3. Description	Test the modification of an Organisation with the Edit Organisation panel.
4. Test objective : **a. User Story**	USM-11 Manage organisations
b. Functional requirement	Create organization
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_admin** Password: **password** 2. Choose the **USM-User Manager - (no scope)** context. **3. To select the *Organisations* option in the menu.**
Result 1	The user successfully enters in USM portal with the profile of User Manager. The *Organisations* table is displayed.
7. Step/Action2	1. To introduce in the *Organisations* search panel the values: Name: **protractorOrg** Nation: **EEC** Status: **Enabled** 2. Activate the *"Search"* button.
Result 2	The *Organisations* table displays a record with the information: Name: **protractorOrg** Description: **new org description** Nation: **EEC**
8. Step/Action3	To activate the *"Pencil icon"* button in the record.
Result 3	The *"Edit Organisation"* panel opens and contains the values: Name: **protractorOrg** Description: **new org description** Nation: **EEC** Status: **Enabled** Email: **newOrg@email.com**
9. Step/Action4	1. To change the value in the *"Edit Organisation"* panel: Name: **protractorUpdatedOrg**

	2. Activate the *"Save"* button.
Result 4	The "Edit Organisation" panel displays a successful message and closes.
10. Step/Action5	1. To refresh the *Organisations* page. 2. In the *Organisations* search panel to introduce the values: Name: **protractorUpdatedOrg** Nation: **EEC** Status: **Enabled** 2. Activate the "*Search*" button.
Result 5	The *Organisations* table displays a record with the information: Name: **protractorUpdatedOrg** Description: **new org description** Nation: **EEC**
11. Test case Execution Time	10 seconds
12. Execution scripts	
13. Test environments	Acceptance

2.7.5. TC23 Test the delete of an Organisation

1. Test Case ID	TC23
2. Title	Test the delete of an Organisation
3. Description	Test the delete of an Organisation with the Delete Organisation panel.
4. Test objective : **a. User Story**	USM-11 Manage organisations
b. Functional requirement	Create organization
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_admin** Password: **password**

	2. Choose the **USM-User Manager - (no scope)** context. **3. To select the *Organisations* option in the menu.**
Result 1	The user successfully enters in USM portal with the profile of User Manager. The *Organisations* table is displayed.
7. Step/Action2	1. To introduce in the *Organisations* search panel the values: Name: **protractorUpdatedOrg** Nation: **EEC** Status: **Enabled** 2. Activate the *"Search"* button.
Result 2	The *Organisations* table displays a record with the corresponding values.
8. Step/Action3	To activate the *"Cross Red icon"* button in the record.
Result 3	The *"Delete Organisation"* panel opens. It contains the values: Name: **protractorUpdatedOrg** Description: **new org description** Nation: **EEC** Status: **Enabled** Email: **newOrg@email.com**
9. Step/Action4	Activate the *"Delete"* button in the *"Delete Organisation"* panel.
Result 4	The *"Delete Organisation"* panel displays a Warning message that the operation may be confirmed.
10. Step/Action5	Activate the *"Confirm"* button in the *"Delete Organisation"* panel.
Result 5	The *"Delete Organisation"* panel displays a successful message. The record does not exist anymore in the *Organisations* table.
11. Test case Execution Time	10 seconds
12. Execution scripts	
13. Test environments	Acceptance

2.7.6. TC24 Test create a new Channel

1. Test Case ID	TC24
2. Title	Test create a new Channel
3. Description	Test the creation of a Channel for an Organisation.

4. Test objective : a. User Story	USM-11 Manage organisations
b. Functional requirement	Manage endpoints with organizations
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_admin** Password: **password** 2. Choose the **USM-User Manager - (no scope)** context. **3. To select the *Organisations* option in the menu.**
Result 1	The user successfully enters in USM portal with the profile of User Manager. The *Organisations* table is displayed.
7. Step/Action2	1. To introduce in the *Organisations* search panel the values: Name: **FRA** Nation: **FRA** Status: **Enabled** 2. Activate the *"Search"* button.
Result 2	The *Organisations* table displays a record with the information: Name: **FRA** Description: **French ministry of agriculture** Nation: **FRA**
8. Step/Action3	To activate the *"Eye icon"* button in the record of the *Organisations* table.
Result 3	The *"Organisation Details"* page opens. In the *Endpoint*s table two records appear with the following information: First record: Name: **FLUX.FRA** Description: **Main FLUX node for France** URI: **http://main.flux.fr/** Second record: Name: **FLUX.FRA_backup** Description: **Backup FLUX node for France** URI: **http://backup.flux.fr/**

9. Step/Action4	To activate the *"Eye icon"* button in the first record of the *Endpoints* table
Result 4	The *Endpoint* page appears. In the *Communication Channels* table there is no record.
10. Step/Action5	To press the "*New*" button in the *Communication Channels* table.
Result 5	The *"New Channel"* panel opens.
11. Step/Action6	1.Introduce in the *"New Channel"* panel the values: Dataflow: **new test dataflow** Service: **new test service** Priority: **10** 2. Activate the *"Save"* button.
Result 6	The *"New Channel"* panel shows a successful message.
14. Test case Execution Time	10 seconds
15. Execution scripts	
16. Test environments	Acceptance

2.7.7. TC25 Test the modification of a Channel

1. Test Case ID	TC25
2. Title	Test the modification a Channel
3. Description	Test the modification of a Channel with the Edit Channel panel.
4. Test objective : a. User Story	USM-11 Manage organisations
b. Functional requirement	Manage endpoints with organizations
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user is well defined in the data base. 2. The test administrator user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_admin** Password: **password**

	2. Choose the **USM-User Manager - (no scope)** context. **3. To select the *Organisations* option in the menu.**
Result 1	The user successfully enters in USM portal with the profile of User Manager. The *Organisations* table is displayed.
7. Step/Action2	1. To introduce in the *Organisations* search panel the values: Name: **FRA** Nation: **FRA** Status: **Enabled** 2. Activate the *"Search"* button.
Result 2	The *Organisations* table displays a record with the information: Name: **FRA** Description: **French ministry of agriculture** Nation: **FRA**
8. Step/Action3	To activate the *"Eye icon"* button in the record of the *Organisations* table.
Result 3	The *"Organisation Details"* page opens. In the *Endpoints* table two records with the following information appear: First record: Name: **FLUX.FRA** Description: **Main FLUX node for France** URI: **http://main.flux.fr/** Second record: Name: **FLUX.FRA_backup** Description: **Backup FLUX node for France** URI: **http://backup.flux.fr/**
9. Step/Action4	To activate the *"Eye icon"* button in the first record of the *Endpoints* table
Result 4	The *Endpoint* page appears. In the *Communication Channels* table there is a record.
10. Step/Action5	To press the *"Pencil icon"* button in the record of the *Communication Channels* table.
Result 5	The *"Edit Channel"* panel opens. It contains the values: Dataflow: **new test dataflow** Service: **new test service** Priority: **10**
11. Step/Action6	1. To change the value in the *"Edit Channel"* panel: Dataflow: **mod** Service: **mod** Priority: **99**

	2. Activate the *"Save"* button.
Result 6	The *"Edit Channel"* panel shows a successful message.
12. Test case Execution Time	10 seconds
13. Execution scripts	
14. Test environments	Acceptance

2.7.8. TC26 Test the delete of a Channel

1. Test Case ID	TC26
2. Title	Test the delete a Channel
3. Description	Test the delete of a Channel with the Delete Channel panel.
4. Test objective : **a. User Story**	USM-11 Manage organisations
b. Functional requirement	Manage endpoints with organizations
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user is well defined in the data base. 2. The test administrator user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_admin** Password: **password** 2. Choose the **USM-User Manager - (no scope)** context. **3. To select the *Organisations* option in the menu.**
Result 1	The user successfully enters in USM portal with the profile of User Manager. The *Organisations* table is displayed.
7. Step/Action2	1. To introduce in the *Organisations* search panel the values: Name: **FRA** Nation: **FRA** Status: **Enabled** 2. Activate the *"Search"* button.

Result 2	The *Organisations* table displays a record with the corresponding values.
8. Step/Action3	To activate the *"Eye icon"* button in the record of the *Organisations* table.
Result 3	The *"Organisation Details"* page opens. In the *Endpoint*s table two records with the following information appear: First record: Name: **FLUX.FRA** Description: **Main FLUX node for France** URI: **http://main.flux.fr/** Second record: Name: **FLUX.FRA_backup** Description: **Backup FLUX node for France** URI: **http://backup.flux.fr/**
9. Step/Action4	To activate the *"Eye icon"* button in the first record of the *Endpoints* table
Result 4	The *Endpoint* page appears. In the *Communication Channels* table there is a record.
10. Step/Action5	To press the "*Cross Red icon*" button in the record of the *Communication Channels* table.
Result 5	The *"Delete Channel"* panel opens. It contains the values: Dataflow: **mod** Service: **mod** Priority: **99**
11. Step/Action6	Activate the "*Delete"* button in the *"Delete Channel"* panel.
Result 6	The *"Delete Channel"* panel displays panel displays a Warning message that the operation may be confirmed.
12. Step/Action6	Activate the "*Confirm"* button in the *"Delete Organisation"* panel.
Result 6	The *"Delete Channel"* panel displays a successful message.
13. Test case Execution Time	10 seconds
14. Execution scripts	
15. Test environments	Acceptance

2.7.9. TC27 Test create a new Contact

1. Test Case ID	TC27
2. Title	Test create a new Contact
3. Description	Test the creation of a Contact for an Organisation.
4. Test objective : **a. User Story**	USM-11 Manage organisations
b. Functional requirement	Manage contacts with organizations
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_admin** Password: **password** 2. Choose the **USM-User Manager - (no scope)** context. **3. To select the *Organisations* option in the menu.**
Result 1	The user successfully enters in USM portal with the profile of User Manager. The *Organisations* table is displayed.
7. Step/Action2	1. To introduce in the *Organisations* search panel the values: Name: **FRA** Nation: **FRA** Status: **Enabled** 2. Activate the *"Search"* button.
Result 2	The *Organisations* table displays a record with the information: Name: **FRA** Description: **French ministry of agriculture** Nation: **FRA**
8. Step/Action3	To activate the *"Eye icon"* button in the record of the *Organisations* table.
Result 3	The *"Organisation Details"* page opens. In the *Endpoint*s table two records appear with the following information:

	First record: Name: **FLUX.FRA** Description: **Main FLUX node for France** URI: **http://main.flux.fr/** Second record: Name: **FLUX.FRA_backup** Description: **Backup FLUX node for France** URI: **http://backup.flux.fr/**
9. Step/Action4	To activate the *"Eye icon"* button in the first record of the *Endpoints* table
Result 4	The *Endpoint* page appears with two tabs: the *Communication Channels* tab and the *Contacts* tab.
10. Step/Action5	To press the *Contacts* tab.
Result 5	The *Contacts* table appears and does not contain any record.
11. Step/Action6	To press the "*New*" button in the *Contacts* table.
Result 6	The *"Assign Contact"* panel opens.
12. Step/Action7	1.Introduce in the *"Assign Contact"* panel the values: Contact Person: **Mary Flux mary.flux@mail.eu** 2. Activate the *"Save"* button
Result 7	The *"Assign Contact"* panel shows a successful message of `Contact assigned`
13. Test case Execution Time	10 seconds
14. Execution scripts	
15. Test environments	Acceptance

2.7.10. TC28 Test the delete of a Contact

1. Test Case ID	TC28
2. Title	Test the delete of a Contact
3. Description	Test the delete of a Contact with the Delete Contact panel.
4. Test objective : **a. User Story**	USM-11 Manage organisations

b. Functional requirement	Manage endpoints with organizations
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user is well defined in the data base. 2. The test administrator user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_admin** Password: **password** 2. Choose the **USM-User Manager - (no scope)** context. **3. To select the *Organisations* option in the menu.**
Result 1	The user successfully enters in USM portal with the profile of User Manager. The *Organisations* table is displayed.
7. Step/Action2	1. To introduce in the *Organisations* search panel the values: Name: **FRA** Nation: **FRA** Status: **Enabled** 2. Activate the *"Search"* button.
Result 2	The *Organisations* table displays a record with the information: Name: **FRA** Description: **French ministry of agriculture** Nation: **FRA**
8. Step/Action3	To activate the *"Eye icon"* button in the record of the *Organisations* table.
Result 3	The *"Organisation Details"* page opens. In the *Endpoints* table two records with the following information appear: First record: Name: **FLUX.FRA** Description: **Main FLUX node for France** URI: **http://main.flux.fr/** Second record: Name: **FLUX.FRA_backup** Description: **Backup FLUX node for France** URI: **http://backup.flux.fr/**
9. Step/Action4	To activate the *"Eye icon"* button in the first record of the *Endpoints* table

Result 4	The *Endpoint* page appears with two tabs: the *Communication Channels* tab and the *Contacts* tab.
10. Step/Action5	To press the *Contacts* tab.
Result 5	The *Contacts* table appears and contains a record.
11. Step/Action6	To press the "*Cross Red icon*" button in the record of the *Contacts* table.
Result 6	The *"Remove Contact"* panel opens
12. Step/Action7	Activate the "*Delete*" button in the *"Remove Contact"* panel.
Result 7	The *"Remove Contact"* panel displays panel displays a Warning message that the operation may be confirmed.
13. Step/Action8	Activate the "*Confirm*" button in the *"Remove Contact"* panel.
Result 8	The *"Remove Contact"* panel displays a successful message of **Contact removed.**
14. Test case Execution Time	10 seconds
15. Execution scripts	
16. Test environments	Acceptance

2.7.11. TC29 Test create a new Endpoint

1. Test Case ID	TC29
2. Title	Test create a new Endpoint
3. Description	Test the creation of an Endpoint for an Organisation.
4. Test objective : **a. User Story**	USM-11 Manage organisations
b. Functional requirement	Manage endpoints with organizations
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user is well defined in the data base. 2. The test administrator user successfully accesses to the portal USM and the Login panel is displayed.

6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_admin** Password: **password** 2. Choose the **USM-User Manager - (no scope)** context. **3. To select the *Organisations* option in the menu.**
Result 1	The user successfully enters in USM portal with the profile of User Manager. The *Organisations* table is displayed.
7. Step/Action2	1. To introduce in the *Organisations* search panel the values: Name: **FRA** Nation: **FRA** Status: **Enabled** 2. Activate the *"Search"* button.
Result 2	The *Organisations* table displays a record with the information: Name: **FRA** Description: **French ministry of agriculture** Nation: **FRA**
8. Step/Action3	To activate the *"Eye icon"* button in the record of the *Organisations* table.
Result 3	The *"Organisation Details"* page opens. In the *Endpoints* table two records appear with the following information: First record: Name: **FLUX.FRA** Description: **Main FLUX node for France** URI: **http://main.flux.fr/** Second record: Name: **FLUX.FRA_backup** Description: **Backup FLUX node for France** URI: **http://backup.flux.fr/**
9. Step/Action4	To activate the *"New"* button in the *Endpoints* table
Result 4	The *"New Endpoint"* panel is opened.
11. Step/Action6	1.Introduce in the *"New Endpoint"* panel the values: Name: **AAA** Description: **Description TestNumber5** URI: **URI test** Email: **aa@aa.es** Status: **Enabled**

	2. Activate the *"Save"* button.
Result 6	The *"New Endpoint"* panel shows a successful message of `New Endpoint created`
14. Test case Execution Time	10 seconds
15. Execution scripts	
16. Test environments	Acceptance

2.7.12. TC30 Test the modification of an Endpoint

1. Test Case ID	TC30
2. Title	Test the modification an Endpoint
3. Description	Test the modification of an Endpoint with the Edit Endpoint panel.
4. Test objective : **a. User Story**	USM-11 Manage organisations
b. Functional requirement	Manage endpoints with organizations
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user is well defined in the data base. 2. The test administrator user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_admin** Password: **password** 2. Choose the **USM-User Manager - (no scope)** context. **3. To select the *Organisations* option in the menu.**
Result 1	The user successfully enters in USM portal with the profile of User Manager. The *Organisations* table is displayed.
7. Step/Action2	1. To introduce in the *Organisations* search panel the values: Name: **FRA** Nation: **FRA** Status: **Enabled** 2. Activate the *"Search"* button.

Result 2	The *Organisations* table displays a record with the information: Name: **FRA** Description: **French ministry of agriculture** Nation: **FRA**
8. Step/Action3	To activate the *"Eye icon"* button in the record of the *Organisations* table.
Result 3	The *"Organisation Details"* page opens. In the *Endpoints* table two records with the following information appear: First record: Name: **AAA** Description: **Description TestNumber5** URI: **URI test** Email : **aa@aa.es** Second record: Name: **FLUX.FRA** Description: **Main FLUX node for France** URI: **http://main.flux.fr/** Third record: Name: **FLUX.FRA_backup** Description: **Backup FLUX node for France** URI: **http://backup.flux.fr/**
9. Step/Action4	To activate the *"Pencil icon"* button in the first record of the *Endpoints* table.
Result 4	The *"Edit Endpoint"* panel opens. It contains the values: Priority: **10** Name: **AAA** Description: **Description TestNumber5** URI: **URI test** Email: **aa@aa.es**
11. Step/Action6	1. To change the value in the *"Edit Channel"* panel: Description: **Description TestNumber5 Mod** URI: **URI test Mod** 2. Activate the *"Save"* button.
Result 6	The *"Edit Channel"* panel shows a successful message of `Endpoint changes saved`
12. Test case Execution Time	10 seconds
13. Execution scripts	
14. Test environments	Acceptance

2.7.13. TC31 Test the delete of an Endpoint

1. Test Case ID	TC30
2. Title	Test the delete a Channel
3. Description	Test the delete of a Channel with the Delete Channel panel.
4. Test objective : a. User Story	USM-11 Manage organisations
b. Functional requirement	Manage endpoints with organizations
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user is well defined in the data base. 2. The test administrator user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_admin** Password: **password** 2. Choose the **USM-User Manager - (no scope)** context. **3. To select the *Organisations* option in the menu.**
Result 1	The user successfully enters in USM portal with the profile of User Manager. The *Organisations* table is displayed.
7. Step/Action2	1. To introduce in the *Organisations* search panel the values: Name: **FRA** Nation: **FRA** Status: **Enabled** 2. Activate the *"Search"* button.
Result 2	The *Organisations* table displays a record with the information: Name: **FRA** Description: **French ministry of agriculture** Nation: **FRA**
8. Step/Action3	To activate the *"Eye icon"* button in the record of the *Organisations* table.
Result 3	The *"Organisation Details"* page opens. In the *Endpoint*s table three records with the following information appear: <u>First record:</u> Name: **AAA** Description: **Description TestNumber5 Mod**

	URI: **URI test Mod**
	Email : **aa@aa.es**
	Second record:
	Name: **FLUX.FRA**
	Description: **Main FLUX node for France**
	URI: **http://main.flux.fr/**
	Third record:
	Name: **FLUX.FRA_backup**
	Description: **Backup FLUX node for France**
	URI: **http://backup.flux.fr/**
9. Step/Action4	To activate the *"Cross Red icon"* button in the record of the *Endpoints* table.
Result 5	The *"Delete Endpoint"* panel opens.
11. Step/Action6	Activate the *"Delete"* button in the *"Delete Endpoint"* panel.
Result 6	The *"Delete Endpoint"* panel displays a Warning message that the operation may be confirmed.
12. Step/Action6	Activate the *"Confirm"* button in the *"Delete Endpoint"* panel.
Result 6	The *"Delete Endpoint"* panel displays a successful message.
13. Test case Execution Time	10 seconds
14. Execution scripts	
15. Test environments	Acceptance

2.8. Test roles

2.8.1. TC32 Test view roles

1. Test Case ID	TC32
2. Title	Test view roles
3. Description	Test roles search filters in the main page of Roles.
4. Test objective : **a. User Story**	USM-15 View role
b. Functional requirement	Create and edit user roles

c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_admin** Password: **password** 2. Choose the **USM-User Manager - (no scope)** context. **3. To select the *Roles* option in the menu.**
Result 1	The user successfully enters in USM portal with the profile of User Manager. The main table of *Roles* is displayed.
7. Step/Action2	1. To introduce in the *Roles* search panel the values: Role: **SM** Application: **USM** Status: **Enabled** 2. Activate the "*Search*" button.
Result 2	The *Roles* table displays different records with the information: Name: **contain the sequence of characters 'SM'** Status: **Enabled**
9. Test case Execution Time	5 seconds
10. Execution scripts	
11. Test environments	Acceptance

2.8.2. TC33 Test view role details

1. Test Case ID	TC33
2. Title	Test view role details
3. Description	Test view role details.
4. Test objective : a. User Story	USM-15 View role

b. Functional requirement	Create and edit user roles
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_admin** Password: **password** 2. Choose the **USM-User Manager - (no scope)** context. **3. To select the *Roles* option in the menu.**
Result 1	The user successfully enters in USM portal with the profile of User Manager. The main table of *Roles* is displayed.
7. Step/Action2	1. Select randomly a row in the *Roles* table. 2. Retrieve the *Name* and *Application* of the selected record in the *Roles* table. 3. Select the *"Eye icon"* button.
Result 2	The *"Roles details"* page is opened. The *Role name* and *Application* values displayed in the page are the same values as the retrieved ones from the *Roles* table.
9. Test case Execution Time	5 seconds
10. Execution scripts	
11. Test environments	Acceptance

2.8.3. TC34 Test create a Role

1. Test Case ID	TC34
2. Title	Test create a Role
3. Description	Test the creation of a new Role.
4. Test objective : **a. User Story**	USM-16 Manage roles
b. Functional requirement	Create and edit user roles Define dynamic roles

c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_admin** Password: **password** 2. Choose the **USM-User Manager - (no scope)** context. **3. To select the *Roles* option in the menu.**
Result 1	The user successfully enters in USM portal with the profile of User Manager. The *Roles* table is displayed.
7. Step/Action2	To press the "*New Role*" button in the *Roles* table.
Result 2	The *"New Role"* panel opens.
8. Step/Action3	1.Introduce in the *"New Role"* panel the values: Name: **protractorRole** Description: empty Status: **Enabled** 2. Activate the *"Save"* button.
Result 3	The *"New Role"* panel displays a successful message and closes. A new record for the new Role is created in the *Roles* table and can be searched.
9. Test case Execution Time	10 seconds
10. Execution scripts	
11. Test environments	Acceptance

2.8.4. TC35 Test the modification of a Role

1. Test Case ID	TC35
2. Title	Test the modification of a Role

3. Description	Test the modification of a Role with the Edit Role panel.
4. Test objective : a. User Story	USM-16 Manage roles
b. Functional requirement	Create and edit user roles Define dynamic roles
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_admin** Password: **password** 2. Choose the **USM-User Manager - (no scope)** context. **3. To select the *Roles* option in the menu.**
Result 1	The user successfully enters in USM portal with the profile of User Manager. The *Roles* table is displayed.
7. Step/Action2	1. To introduce in the *Roles* search panel the values: Name: **protractorRole** Description: **protractorRoleDescription** Status: **Enabled** 2. Activate the *"Search"* button.
Result 2	The *Roles* table displays a record with the corresponding values.
8. Step/Action3	To activate the *"Pencil icon"* button in the record.
Result 3	The *"Edit Role"* panel opens and contains the values: Name: **protractorRole** Description: **protractorRoleDescription** Status: **Enabled**
9. Step/Action4	1. To change the value in the *"Edit Role"* panel: Name: **protractorUpdatedRole** 2. Activate the *"Save"* button.
Result 4	The *"Edit Role"* panel displays a successful message and closes.

10. Step/Action5	1. To refresh the *Roles* page.
	2. In the *Roles* search panel to introduce the values:
	Name: **protractorUpdatedRole**
	Description: **protractorRoleDescription**
	Status: **Enabled**
	2. Activate the "*Search*" button.
Result 5	The *Roles* table displays a record with the information:
	Name: **protractorUpdatedRole**
	Description: **protractorRoleDescription**
	Status: **Enabled**
11. Test case Execution Time	10 seconds
12. Execution scripts	
13. Test environments	Acceptance

2.8.6. TC36 Test the delete of a Role

1. Test Case ID	TC36
2. Title	Test the delete of a Role
3. Description	Test the delete of a Role with the Delete Role panel.
4. Test objective : **a. User Story**	USM-16 Manage roles
b. Functional requirement	Create and edit user roles
	Define dynamic roles
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base.
	2. The test administrator user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password:
	Username: **usm_admin**
	Password: **password**
	2. Choose the **USM-User Manager - (no scope)** context.
	3. To select the *Roles* option in the menu.

Result 1	The user successfully enters in USM portal with the profile of User Manager. The *Roles* table is displayed.
7. Step/Action2	1. To introduce in the *Roles* search panel the values: Name: **protractorUpdatedRole** Description: **protractorRoleDescription** Status: **Enabled** 2. Activate the *"Search"* button.
Result 2	The *Roles* table displays a record with the corresponding values.
8. Step/Action3	To activate the *"Cross Red icon"* button in the record.
Result 3	The *"Delete Role"* panel opens. It contains the values: Name: **protractorUpdatedRole** Description: **protractorRoleDescription** Status: **Enabled**
9. Step/Action4	Activate the *"Delete"* button in the *"Delete Role"* panel.
Result 4	The *"Delete Role"* panel displays a Warning message that the operation may be confirmed.
10. Step/Action5	Activate the *"Confirm"* button in the *"Delete Role"* panel.
Result 5	The *"Delete Role"* panel displays a successful message. The record does not exist anymore in the *Roles* table.
11. Test case Execution Time	10 seconds
12. Execution scripts	
13. Test environments	Acceptance

2.9. Test applications

2.9.1. TC37 Test view applications

1. Test Case ID	TC37
2. Title	Test view applications
3. Description	Test view applications and their details.

4. Test objective : **a. User Story**	USM-08 View applications
b. Functional requirement	Create and manage DB functions and procedures
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_admin** Password: **password** 2. Choose the **USM-User Manager - (no scope)** context. **3. To select the *Applications* option in the menu.**
Result 1	The user successfully enters in USM portal with the profile of User Manager. The main table of *Applications* is displayed.
7. Step/Action2	1. To introduce in the *Applications* search panel the value: Name: **USM** 2. Activate the *"Search"* button.
Result 2	The *"Applications"* table displays records with the values: Name: contains the string of characters 'USM' Description: contains the string of characters 'User Security Management Component'
8. Step/Action3	To activate the *"Eye icon"* button in the first record of the *Applications* table.
Result 3	The *"Application Details"* page opens. In the page the *Name* of the application is USM.
9. Test case Execution Time	5 seconds
10. Execution scripts	
11. Test environments	Acceptance

2.10. Test policies

2.10.1. TC38 Test view policies

1. Test Case ID	TC38
2. Title	Test view policies
3. Description	Test view applications and their details.
4. Test objective : a. User Story	SEC-09 Configure pwd policy
b. Functional requirement	Make expiration period configurable Make password expiration warning behaviour configurable Make password requirements and complexity settings configurable Make the number of log-on attempts configurable Provide a secondary challenge (This one is out of scope of SEC-09) Reset password at expiration Make password history limitations configurable
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_admin** Password: **password** 2. Choose the **USM-User Manager - (no scope)** context. **3. To select the *Policies* option in the menu.**
Result 1	The user successfully enters in USM portal with the profile of User Manager. The main table of *Policies* is displayed.
7. Step/Action2	1. To introduce in the *Policies* search panel the values: Name search: **account.lockoutDuration** Subject: **Authentication** 2. Activate the *"Search"* button.
Result 2	The *"Policies"* table displays a record with the corresponding values.

9. Test case Execution Time	5 seconds
10. Execution scripts	
11. Test environments	Acceptance

2.11. Test User Roles

2.11.1. TC39 Test view User Roles

1. Test Case ID	TC39
2. Title	Test view User Roles
3. Description	Test view User Roles.
4. Test objective : a. User Story	USM-17 Manage User Context
b. Functional requirement	Add permissions Assign roles to users
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_admin** Password: **password** 2. Choose the **USM-User Manager - (no scope)** context. **3. To select the *Users* option in the menu.**
Result 1	The user successfully enters in USM portal with the profile of User Manager. The main table of *Users* is displayed.
7. Step/Action2	1. To introduce in the *Users* search panel the value: Name search: **vms_user** 2. Activate the *"Search"* button.

Result 2	The *Users* table displays a record with the corresponding value.
9. Test case Execution Time	5 seconds
10. Execution scripts	
11. Test environments	Acceptance

2.11.2. TC40 Test create a new User Context

1. Test Case ID	TC40
2. Title	Test view User Context
3. Description	Test view User Context
4. Test objective : **a. User Story**	USM-17 Manage User Context
b. Functional requirement	Add permissions Assign roles to users
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_admin** Password: **password** 2. Choose the **USM-User Manager - (no scope)** context. **3. To select the *Users* option in the menu.**
Result 1	The user successfully enters in USM portal with the profile of User Manager. The main table of *Users* is displayed.
7. Step/Action2	1. To introduce in the *Users* search panel the value: Name search: **vms_user** 2. Activate the *"Search"* button.
Result 2	The *Users* table displays a record with the corresponding value.

8. Step/Action3	To activate the *"Eye icon"* button in the record of the *Users* table.
Result 3	The *"Users Details"* page opens. It contains three tabs: -*Contact and Status Details* tab. -*Contexts* tab. -*Preference*s tab.
8. Step/Action3	To press the *Contexts* tab.
Result 3	The *Contexts* table appears.
9. Step/Action4	To press the "*New*" button in the *Contexts* table.
Result 4	The *"Add User Context"* panel opens.
10. Step/Action5	1.Introduce in the *"Add User Context"* panel the values: Role: Super User Scope: Some Reports 2. Activate the *"Save"* button.
Result 5	The *"Add User Context"* panel shows a successful message.
9. Test case Execution Time	5 seconds
10. Execution scripts	
11. Test environments	Acceptance

2.11.3. TC41 Test the modification of a User Context

1. Test Case ID	TC41
2. Title	Test the modification of a User Context
3. Description	Test the modification of a User Context of a User Context with the Edit User Context panel.
4. Test objective : a. User Story	USM-17 Manage User Context
b. Functional requirement	Add permissions Assign roles to users
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user successfully accesses to the portal

	USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_admin** Password: **password** 2. Choose the **USM-User Manager - (no scope)** context. **3. To select the *Users* option in the menu.**
Result 1	The user successfully enters in USM portal with the profile of User Manager. The main table of *Users* is displayed.
7. Step/Action2	1. To introduce in the *Users* search panel the value: Name search: **vms_user** 2. Activate the *"Search"* button.
Result 2	The *Users* table displays a record with the corresponding value.
8. Step/Action3	To activate the *"Eye icon"* button in the record of the *Users* table.
Result 3	The *"Users Details"* page opens. It contains three tabs: -*Contact and Status Details* tab. -*Contexts* tab. -*Preference*s tab.
8. Step/Action3	To press the *Contexts* tab.
Result 3	The *Contexts* table appears. It contains one record.
9. Step/Action4	To activate the *"Pencil icon"* button in the record of the *Contexts* table.
Result 4	The *"Edit User Context"* panel opens.
10. Step/Action5	1.Introduce in the *"Add User Context"* panel the values: Role: Super User Scope: Some Reports 2. Activate the *"Save"* button.
Result 5	The *"Add User Context"* panel shows a successful message.
9. Test case Execution Time	5 seconds
10. Execution scripts	

11. Test environments	Acceptance

2.12. Test duplicate User Profile

2.12.1. TC42 Test duplicate User Profile

1. Test Case ID	TC42
2. Title	Test duplicate User Profile
3. Description	Test duplicate User Profile
4. Test objective : a. User Story	USM-14 Copy profiles
b. Functional requirement	Copy and assign user profiles
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_admin** Password: **password** 2. Choose the **USM-User Manager - (no scope)** context. **3. To select the *Users* option in the menu.**
Result 1	The user successfully enters in USM portal with the profile of User Manager. The main table of *Users* is displayed.
7. Step/Action2	1. To introduce in the *Users* search panel the value: Name search: **vms_user_fra** 2. Activate the *"Search"* button.
Result 2	The *Users* table displays a record with the corresponding value.
8. Step/Action3	To activate the *"Two Pages icon"* button in the record of the *Users* table.
Result 3	The *"Duplicate User Profile"* panel opens. It contains the value: Copy to User: **vms_user_fra**

9. Step/Action4	1. To introduce the value: Copy from User: **usm_admin** **2. To press the *"Copy profile"* button.**
Result 4	The *"Duplicate User Profile"* panel displays a Warning message that the operation may be confirmed.
10. Step/Action5	Activate the *"Confirm"* button in the *"Duplicate User Profile"* panel.
Result 5	The *"Duplicate User Profile"* panel displays a successful message.
11. Test case Execution Time	5 seconds
12. Execution scripts	
13. Test environments	Acceptance

2.13. Test changes in User details

2.13.1. TC43 Test approve changes in User details

1. Test Case ID	TC43
2. Title	Test approve changes in User Details
3. Description	Test the approval of changes in User Details
4. Test objective : **a. User Story**	USM-04 Amend user contact details
b. Functional requirement	Manage user account information
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_admin** Password: **password**

	2. Choose the **USM-User Manager - (no scope)** context. **3. To select the *Policies* option in the menu.** 4 . To introduce the value in the *Policies* search panel: Name search: **review.contact.details.enabled** 5. To activate the *"Eye icon"* button in the record selected in the *Policies* table. 6.To introduce the value: :**true** 7. To select the *Changes* option in the menu.
Result 1	The user successfully enters in USM portal with the profile of User Manager. The policy *review.contact.details.enabled* is set to true. The main table of *Changes* is displayed.
7. Step/Action2	1. To introduce in the *Changes* search panel the value: Name search: **quota_usr_com** 2. Activate the *"Search"* button.
Result 2	The *Changes* table displays a record with the corresponding value and a change pending to approve.
8. Step/Action3	1. To retrieve the value of the *phone number*. 2. Log out from the Users menu.
Result 3	The user is successfully logged out from the USM portal
8. Step/Action3	1. Log in the USM portal with the username and password: Username: **quota_usr_com** Password: **password** 2. Choose the **USM-User Manager - (no scope)** context. **3. Select the option *"Update contact details"* in the User menu of USM.**
Result 3	The *"Update contact details"* panel opens.
9. Step/Action4	1. To introduce the values in the *"Update contact details"* panel: Contact Details phone: +**32287654321** Password: **password** 2. Activate the *"Save"* button.

Result 4	The *"Change Your Security Answers"* panel displays a successful message.
10. Test case Execution Time	5 seconds
11. Execution scripts	
12. Test environments	Acceptance

2.13.2. TC44 Test reject changes in User details

1. Test Case ID	TC44
2. Title	Test reject changes in User Details
3. Description	Test the rejection of changes in User Details
4. Test objective : **a. User Story**	USM-04 Amend user contact details
b. Functional requirement	Manage user account information
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user successfully accesses to the portal USM and the Login panel is displayed.
6. Step/Action1	1. Log in the USM portal with the username and password: Username: **usm_admin** Password: **password** 2. Choose the **USM-User Manager - (no scope)** context. **3. To select the *Policies* option in the menu.** 4 . To introduce the value in the *Policies* search panel: Name search: **review.contact.details.enabled** 5. To activate the *"Eye icon"* button in the record selected in the *Policies* table. 6.To introduce the value: :**true** 7. To select the *Changes* option in the menu.

Result 1	The user successfully enters in USM portal with the profile of User Manager. The policy *review.contact.details.enabled* is set to true. The main table of *Changes* is displayed.
7. Step/Action2	1. To introduce in the *Changes* search panel the value: Name search: **quota_usr_com** 2. Activate the *"Search"* button.
Result 2	The *Changes* table displays a record with the corresponding value and a change pending to approve.
8. Step/Action3	1. To retrieve the value of the *phone number*. 2. Log out from the Users menu.
Result 3	The user is successfully logged out from the USM portal
8. Step/Action3	1. Log in the USM portal with the username and password: Username: **quota_usr_com** Password: **password** 2. Choose the **USM-User Manager - (no scope)** context. **3. Select the option *"Update contact details"* in the User menu of USM.**
Result 3	The *"Update contact details"* panel opens.
10. Step/Action4	1. To introduce the values in the *"Update contact details"* panel: Password: **password** 2. Activate the *"Reject"* button.
Result 4	The *"Update contact details"* panel displays a successful message that the pending change has been rejected.
11. Test case Execution Time	5 seconds
12. Execution scripts	
13. Test environments	Acceptance

TESTING THE APPLICATION DEPLOYMENT WEB SERVICE

3.1 Test the Application Deployment Descriptor

3.1.1. TC1 Test Get Deployment Descriptor

1. Test Case ID	TC1
2. Title	Test Get Deployment Descriptor
3. Description	Retrieves the Deployment Descriptor for a specific application
4. Test objective : a. User Story	USM-09 Applications Management
b. Functional requirement	Manage applications
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user name (requester) is authenticated
6. Step/Action	Send the request providing the name of application
7.Result	status code: 200, Retrieves the application descriptor successfully
8. Test case Execution Time	0.912 seconds
9. Execution scripts	
10. Test environments	Acceptance

3.1.2 Test Deploy Application

3.1.2.1 TC2 Test Deploy Single Feature Application

1. Test Case ID	TC2
2. Title	Test Deploy Single Feature Application
3. Description	Deploys the provided Application as a new Application

4. Test objective : a. User Story	USM-09 Applications Management
b. Functional requirement	Manage applications
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user name (requester) is authenticated
6. Step/Action	Send the request providing the xsd file with a signle feature defined (no dataset or option data)
7.Result	Status code: 200, Updates the corresponding database tables successfully
8. Test case Execution Time	1.1 seconds
9. Execution scripts	
10. Test environments	Acceptance

3.1.2.2 TC3 Test Deploy Application with Duplicate Data

1. Test Case ID	TC3
2. Title	Test Deploy Application With Duplicate Data
3. Description	Deploys the provided Application as a new Application
4. Test objective : a. User Story	USM-09 Applications Management
b. Functional requirement	Manage applications
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user name (requester) is authenticated
6. Step/Action	Send the request providing the xsd file that contains duplicate feature, dataset and option data
7.Result	Status code: 400, Bad request with a message specifying the already defined data

8. Test case Execution Time	1.050 seconds
9. Execution scripts	
10. Test environments	Acceptance

3.1.2.3 TC4 Test Deploy Minimalistic Application

1. Test Case ID	TC4
2. Title	Test Deploy Minimalistic Application
3. Description	Deploys the provided Application as a new Application
4. Test objective : **a. User Story**	USM-09 Applications Management
b. Functional requirement	Manage applications
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user name (requester) is authenticated
6. Step/Action	Send the request providing the basic xsd file containing no extra data (feature,dateset,option)
7.Result	Status code: 200, Updates the corresponding database tables successfully
8. Test case Execution Time	1.020 seconds
9. Execution scripts	
10. Test environments	Acceptance

3.1.2.4 TC5 Test Deploy Features Only Application

1. Test Case ID	TC5
2. Title	Test Deploy Features Only Application
3. Description	Deploys the provided Application as a new Application

4. Test objective : a. User Story	USM-09 Applications Management
b. Functional requirement	Manage applications
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user name (requester) is authenticated
6. Step/Action	Send the request providing xsd file containing a list of features (no dataset or option data)
7.Result	Status code: 200, Updates the corresponding database tables successfully
8. Test case Execution Time	1.010 seconds
9. Execution scripts	
10. Test environments	Acceptance

3.1.2.5 TC6 Test Application that already exists

1. Test Case ID	TC6
2. Title	Test Application that already exists
3. Description	Deploys the provided Application as a new Application
4. Test objective : a. User Story	USM-09 Applications Management
b. Functional requirement	Manage applications
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user name (requester) is authenticated
6. Step/Action	Send the request providing xsd file containing application name that is already stored in the database by previous deployment
7.Result	Status code: 400, Bad request with a message specifying that the application already exists

8. Test case Execution Time	0.910 seconds
9. Execution scripts	
10. Test environments	Acceptance

3.1.3 Test Un-deploy Application

3.1.3.1 TC7 Test Un-deploy Application

1. Test Case ID	TC7
2. Title	Test Un-deploy Application
3. Description	Un-deploys the Application
4. Test objective : a. User Story	USM-09 Applications Management
b. Functional requirement	Manage applications
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user name (requester) is authenticated
6. Step/Action	Send the request providing application name
7.Result	Status code: 200, Updates the corresponding database tables successfully. Removes the application's data and its references
8. Test case Execution Time	1.1 seconds
9. Execution scripts	
10. Test environments	Acceptance

3.1.3.2 TC8 Test Un-deploy Application that is not allowed

1. Test Case ID	TC8
2. Title	Test Un-deploy Application that is not allowed

3. Description	Un-deploys the Application
4. Test objective : a. User Story	USM-09 Applications Management
b. Functional requirement	Manage applications
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user name (requester) is authenticated
6. Step/Action	Send the request providing application name that is not allowed to be removed
7.Result	Status code: 400, Bad request with a message specifying the application which is not allowed to be removed
8. Test case Execution Time	0.948 seconds
9. Execution scripts	
10. Test environments	Acceptance

3.1.4 Test Re-deploy Application

3.1.4.1 TC9 Re-deploy Application replacing data

1. Test Case ID	TC9
2. Title	Test Re-deploy Application replacing data
3. Description	Updates an application
4. Test objective : a. User Story	USM-09 Applications Management
b. Functional requirement	Manage applications
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user name (requester) is authenticated

6. Step/Action	Send the request providing the updated xsd file. The first element of each feature, dataset and option list of the original xsd file has been replaced with a new element
7.Result	Status code: 200, Updates the corresponding database tables successfully
8. Test case Execution Time	1.2 seconds
9. Execution scripts	
10. Test environments	Acceptance

3.1.4.2 TC10 Re-deploy Application containing new elements

1. Test Case ID	TC10
2. Title	Test Re-deploy Application containing new elements
3. Description	Updates an application
4. Test objective : a. User Story	USM-09 Applications Management
b. Functional requirement	Manage applications
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user name (requester) is authenticated
6. Step/Action	Send the request providing the updated xsd file. It like the original xsd file except that has been added a new feature, a new dataset and a new option
7.Result	Status code: 200, Updates the corresponding database tables successfully by adding the new data
8. Test case Execution Time	1.2 seconds
9. Execution scripts	
10. Test environments	Acceptance

3.1.4.3 TC11 Re-deploy Application with new description

1. Test Case ID	TC11
2. Title	Test Re-deploy Application with new description
3. Description	Updates an application
4. Test objective : a. User Story	USM-09 Applications Management
b. Functional requirement	Manage applications
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user name (requester) is authenticated
6. Step/Action	Send the request providing the updated xsd file. In the updated application descriptor (xsd) the description attribute for each feature, dataset and option element has been modified
7.Result	Status code: 200, Updates the corresponding database tables successfully
8. Test case Execution Time	1.1 seconds
9. Execution scripts	
10. Test environments	Acceptance

3.1.4.4 TC12 Re-deploy Application with no changes

1. Test Case ID	TC12
2. Title	Test Re-deploy Application with no changes
3. Description	Updates an application
4. Test objective : a. User Story	USM-09 Applications Management
b. Functional requirement	Manage applications
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base.

	2. The test administrator user name (requester) is authenticated
6. Step/Action	Send the request providing exactly the same xsd file with the one used for the deployment of the application
7.Result	Status code: 200, No impact in the database
8. Test case Execution Time	1.19 seconds
9. Execution scripts	
10. Test environments	Acceptance

3.1.4.5 TC13 Re-deploy Application dropping data

1. Test Case ID	TC13
2. Title	Test Re-deploy Application dropping data
3. Description	Updates an application
4. Test objective : **a. User Story**	USM-09 Applications Management
b. Functional requirement	Manage applications
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user name (requester) is authenticated
6. Step/Action	Send the request providing the updated xsd file that contains no feature, dataset and option elements
7.Result	Status code: 200, Updates the corresponding database tables successfully. Every element of feature, dataset and option that was part of the application has been removed
8. Test case Execution Time	1.45 seconds
9. Execution scripts	
10. Test environments	Acceptance

3.1.4.6 TC14 Re-deploy Application retaining all datasets

1. Test Case ID	TC14
2. Title	Test Re-deploy Application retaining all datasets
3. Description	Updates an application retaining all the previous datasets
4. Test objective : a. User Story	USM-09 Applications Management
b. Functional requirement	Manage applications
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user name (requester) is authenticated
6. Step/Action	Add a couple of new datasets(see TC15 deploy datasets sector) to the application
7.Result	Status code: 200, Updates the corresponding database tables successfully
8. Step/Action	Send the request providing exactly the same xsd file with the retainDatasets flag set to true
9.Result	Status code: 200, The extra datasets has been retained in the database
10. Test case Execution Time	1.28 seconds
11. Execution scripts	
12. Test environments	Acceptance

3.1.5 Test Deploy Dataset

3.1.5.1 TC15 Test Deploy Dataset

1. Test Case ID	TC15
2. Title	Test Deploy Dataset
3. Description	Updates the datasets of the provided application
4. Test objective : a. User Story	USM-09 Applications Management

b. Functional requirement	Manage applications
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user name (requester) is authenticated
6. Step/Action	Send the request providing the xsd file that contains a list of extra datasets
7.Result	Status code: 200, Updates the corresponding database table successfully
8. Test case Execution Time	0.98 seconds
9. Execution scripts	
10. Test environments	Acceptance

3.1.5.2 TC16 Test Deploy Dataset containing duplicates

1. Test Case ID	TC16
2. Title	Test Deploy Dataset containing duplicates
3. Description	Updates the datasets of the provided application
4. Test objective : a. User Story	USM-09 Applications Management
b. Functional requirement	Manage applications
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user name (requester) is authenticated
6. Step/Action	Send the request providing the xsd file that contains duplicated extra datasets
7.Result	Status code: 400, Bad request with a message specifying the already defined datasets
8. Test case Execution Time	0.94 seconds
9. Execution scripts	

10. Test environments	Acceptance

TESTING THE USER MODULE JMS API
4.1 Test the PUT_PREFERENCE

4.1.1. TC1 Test *PUT_PREFERENCE* Create case

1. Test Case ID	TC1
2. Title	Test the PUT_PREFERENCE for creating a user preference that does not already exists
3. Description	Create a user preference of a user for a specific application option. The user preference does not already exist.
4. Test objective : **a. User Story**	UNIONVMS-890 Create or Update (in case it exists) of user preference so that the there is no need the caller to know about the existence of an user preference
b. Functional requirement	UNIONVMS-890 Create or Update (in case it exists) of user preference so that the there is no need the caller to know about the existence of an user preference
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The user exists 2. The use role exists 3. The application exists 4. The application option exists 5. The user preference does not exists
6. Step/Action	Send the request JMS message providing the user name, the application name, the role name, the option name and the option value being the user's preference
7.Result	Response JMS message containing OK The user preference is created
8. Test case Execution Time	
9. Execution scripts	
10. Test environments	Acceptance

4.1.2. TC2 Test *PUT_PREFERENCE* Update case

1. Test Case ID	TC2
2. Title	Test the PUT_PREFERENCE for updating a user preference that already exists

3. Description	Update a user preference of a user for a specific application option. The user preference already exist.
4. Test objective : **a. User Story**	UNIONVMS-890 Create or Update (in case it exists) of user preference so that the there is no need the caller to know about the existence of an user preference
b. Functional requirement	UNIONVMS-890 Create or Update (in case it exists) of user preference so that the there is no need the caller to know about the existence of an user preference
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The user exists 2. The use role exists 3. The application exists 4. The application option exists 5. The user preference exists
6. Step/Action	Send the request JMS message providing the user name, the application name, the role name, the option name and the option value being the user's preference
7.Result	Response JMS message containing OK The user preference is updated with the new option value
8. Test case Execution Time	
9. Execution scripts	
10. Test environments	Acceptance

TESTING THE CHANGE PASSWORD POLICY
5.1 Test password by user

5.1.1 TC1 Change password

1. Test Case ID	TC1
2. Title	Test change password by user
3. Description	Updates a user's password (the new password complies with the current password policy)
4. Test objective : a. User Story	
b. Functional requirement	Manage password
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test user is well defined in the data base. 2. The test user name (requester) is authenticated
6. Step/Action	The test user sends the request to change his password providing correct credentials and a new password that complies with the test password policy
7.Result	The password has been successfully changed
8. Test case Execution Time	3.2 seconds
9. Execution scripts	
10. Test environments	Acceptance

5.1.2 TC1 Change password providing wrong current password

1. Test Case ID	TC2
2. Title	Test change password by user with wrong current password
3. Description	Updates a user's password providing wrong current password
4. Test objective : a. User Story	
b. Functional requirement	Manage password
c. Business Rule	

d. Non-Functional requirement	
5. Pre Condition(s)	1. The test user is well defined in the data base. 2. The test user name (requester) is authenticated
6. Step/Action	The test user sends the request to change his password providing wrong current password and a new password that complies with the test password policy
7.Result	The password failed to update with message "Invalid credentials"
8. Test case Execution Time	2.4 seconds
9. Execution scripts	
10. Test environments	Acceptance

5.1.3 TC3 Change password providing empty current password

1. Test Case ID	TC3
2. Title	Test change password by user with empty current password
3. Description	Updates a user's password providing empty current password
4. Test objective : **a. User Story**	
b. Functional requirement	Manage password
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test user is well defined in the data base. 2. The test user name (requester) is authenticated
6. Step/Action	The test user sends the request to change his password providing empty current password and a new password that complies with the test password policy
7.Result	The password failed to update with message "current password must be defined"
8. Test case Execution Time	1.4 seconds
9. Execution scripts	
10. Test environments	Acceptance

5.1.4 TC4 Change password by disabled user

1. Test Case ID	TC4
2. Title	Test change password by disabled user
3. Description	Updates a disabled user's password
4. Test objective : a. User Story	
b. Functional requirement	Manage password
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test user is well defined in the data base. 2. The test user name (requester) is authenticated 3. The status of the test user is disabled
6. Step/Action	The test user sends the request to change his password providing empty current password and a new password that complies with the test password policy
7.Result	The password failed to update with message "user status is disabled"
8. Test case Execution Time	1.4 seconds
9. Execution scripts	
10. Test environments	Acceptance

5.1.5 Change password violating password policy

5.1.5.1 TC5 Change password omitting uppercase characters

1. Test Case ID	TC5
2. Title	Test change password by user omitting uppercase chars
3. Description	Updates a user's password providing a new password without any uppercase chars
4. Test objective : a. User Story	UNIONVMS-809 PWD Policy
b. Functional requirement	Manage password
c. Business Rule	
d. Non-Functional requirement	

5. Pre Condition(s)	1. The test user is well defined in the data base. 2. The test user name (requester) is authenticated 3. The mixUpperLowerCase password policy is enabled
6. Step/Action	The test user sends the request to change his password providing a new password without any uppercase character
7.Result	The password failed to update with message "password must contain at least one uppercase and one lower case characters"
8. Test case Execution Time	2.5 seconds
9. Execution scripts	
10. Test environments	Acceptance

5.1.5.2 TC6 Change password omitting lowercase characters

1. Test Case ID	TC6
2. Title	Test change password by user omitting lowercase chars
3. Description	Updates a user's password providing a new password without any lowercase chars
4. Test objective : a. User Story	UNIONVMS-809 PWD Policy
b. Functional requirement	Manage password
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test user is well defined in the data base. 2. The test user name (requester) is authenticated 3. The mixUpperLowerCase password policy is enabled
6. Step/Action	The test user sends the request to change his password providing a new password without any lowercase characters
7.Result	The password failed to update with message "password must contain at least one uppercase and one lower case characters"
8. Test case Execution Time	2.5 seconds
9. Execution scripts	
10. Test environments	Acceptance

5.1.5.3 TC7 Change password omitting numeric characters

1. Test Case ID	TC7
2. Title	Test change password by user omitting numeric chars
3. Description	Updates a user's password providing a new password without any numeric chars
4. Test objective : a. User Story	UNIONVMS-809 PWD Policy
b. Functional requirement	Manage password
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test user is well defined in the data base. 2. The test user name (requester) is authenticated 3. The minDigits password policy value 1
6. Step/Action	The test user sends the request to change his password providing a new password without any numeric characters
7. Result	The password failed to update with message "password must contain at least 1(the number depends on the value of the corresponding password policy) digits"
8. Test case Execution Time	2.5 seconds
9. Execution scripts	
10. Test environments	Acceptance

5.2 Test password by administrator

5.2.1 TC1 Change password

1. Test Case ID	TC1
2. Title	Test change password
3. Description	Test admin updates a user's password (the new password complies with the current password policy)
4. Test objective : a. User Story	
b. Functional requirement	Manage password
c. Business Rule	
d. Non-Functional requirement	

5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user name (requester) is authenticated
6. Step/Action	The test administrator user sends the request to change a user's password providing correct credentials and a new password that complies with the test password policy
7.Result	The password has been successfully changed
8. Test case Execution Time	1.8 seconds
9. Execution scripts	
10. Test environments	Acceptance

5.2.2 Change password violating password policy

5.2.2.1 TC2 Change password violating minLength policy

1. Test Case ID	TC2
2. Title	Test change password violate policy
3. Description	Test admin updates a user's password providing a password that violates minLength password policy
4. Test objective : a. User Story	
b. Functional requirement	Manage password
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user name (requester) is authenticated 3. The minLength policy has value 8
6. Step/Action	The test administrator user sends the request to change a user's password providing correct credentials and a new password with length lower than the specified value (8) in minLength policy
7.Result	The password failed to update with message "password must contain at least 8 characters"
8. Test case Execution Time	2.4 seconds
9. Execution scripts	
10. Test environments	Acceptance

5.2.2.2 Change password violating minHistory policy

5.2.2.2.1 TC3 Change password providing the current password as new password

1. Test Case ID	TC3
2. Title	Test change password violating minHistory policy
3. Description	Test admin updates a user's password providing a new password that is exactly the same as the test user's current password
4. Test objective : a. User Story	
b. Functional requirement	Manage password
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user name (requester) is authenticated 3. The minHistory policy has value 3
6. Step/Action	The test administrator user sends the request to change a user's password providing correct credentials and a new password that is exactly the same with the test user's current password
7.Result	The password failed to update with message "password used too recently"
8. Test case Execution Time	2.5 seconds
9. Execution scripts	
10. Test environments	Acceptance

5.2.2.2.2 TC4 Change password providing a recently used password

1. Test Case ID	TC4
2. Title	Test change password ten times
3. Description	Test admin updates a user's password ten times in a row providing every time a different new password that complies with the test password policy and then updates user's password again providing a password that has been used recently
4. Test objective : a. User Story	

b. Functional requirement	Manage password
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	1. The test administrator user and the test user are well defined in the data base. 2. The test administrator user name (requester) is authenticated 3. The minHistory policy has value 3
6. Step/Action	The test administrator user sends ten requests in a row to change a user's password providing correct credentials and a new password that complies with the test password policy. Then the administrator user sends a change password request providing the password that was used in the 8th request.
7.Result	The password failed to update with message "password used too recently"
8. Test case Execution Time	12.3 seconds
9. Execution scripts	
10. Test environments	Acceptance

TESTING THE UPDATE USER DATA AT LOGGING
6.1 Test authenticate user success for user enabled both create and sync scenario

1. Test Case ID	UNIONVMS-893-UT0
2. Title	testAuthenticateUserSuccessUserEnabledBothCreateSyncSenario
3. Description	Invokes the authenticateUser method for user enabled and correct password so that have success and create person in DB, the first time, or sync person in DB the second time when person is already create by data in LDAP.
4. Test objective : **a. User Story**	
b. Functional requirement	
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	LDAP is enabled and connected to USM. LDAP has a username "ldap_enabled" having password "password" that is not locked out. "ldap_enabled" login first time and there is no person already created in USM database.
6. Step/Action	1. Authenticate username "ldap_enabled" with correct password "password" 2. We modify the persisted person's row (from previous step) fields by using update operations on database. Retry authentication of the user. 3. Delete person row and clear referense in user row so to tear down our test

7.Result	`1. User is authenticated having SUCCESS status code`
	`(0) and LDAP Attribures retrieved from LDAP are`
	`verified having expected values and these values is`
	`persisted to a new person row in database`
	`2. User is authenticated having SUCCESS status code`
	`(0) and LDAP Attribures retrieved from LDAP are`
	`verified having expected values and these values is`
	`sync to the already persisted person row fields in`
	`database for the previous step`

8. Test case Execution Time	

9. Execution scripts	
10. Test environments	Acceptance

6.2 Test authenticate user fail for user enabled

1. Test Case ID	UNIONVMS-893-UT1
2. Title	testAuthenticateUserFailUserEnabled
3. Description	Invokes the authenticateUser method for user enabled but with incorrect password so that have no success and no sync with LDAP.
4. Test objective : a. User Story	
b. Functional requirement	
c. Business Rule	
d. Non-Functional requirement	
5. Pre Condition(s)	LDAP is enabled and connected to USM. LDAP has a username "ldap_enabled" having password "password" that is not locked out. "ldap_enabled" login first time and there is no person already created in USM database.
6. Step/Action	1. Authenticate username "ldap_enabled" with correct password "password" 2. We modify the persisted person's row (from previous step) fields by using update operations on database. Retry authentication of the user but now wiht incorrect password "password_incorect" 3. Delete person row and clear referense in user row so to tear down our test. Retry incorrect user authentication.
7.Result	1User is authenticated having SUCCESS status code (0) and LDAP Attribures retrieved from LDAP are verified having expected values and these values is persisted to a new person row in database 2. User is not authenticated having INVALID_CREDENTIALS status code (49) and LDAP Attribures are not retrieved from LDAP no sync took place to the already persisted person row fields in database for the previous step that were modified. 3. User is not authenticated having INVALID_CREDENTIALS status code (49) and LDAP Attribures are not retrieved from LDAP no sync took place so no person exist in the database.

8. Test case Execution Time	
9. Execution scripts	
10. Test environments	Acceptance