

# Passbolt Groups feature

## *Functional specifications*

### Abstract

The aim of this document is to provide a high level functional and technical perspective of how the group feature will be implemented in passbolt. This document is aimed at senior users and developers who want to provide feedback and help with the design of this component of the passbolt solution.

References:

- [https://github.com/passbolt/passbolt\\_api/issues/6](https://github.com/passbolt/passbolt_api/issues/6)

Status: **APPROVED**

### Change history

Date	Author	Changes
23/12/2016	Kévin	Initial version
28/12/2016	Kévin / Remy	More user stories
06/01/2017	Remy / Kevin	Wireframes / More user stories
13/01/2017	Remy	Misc small changes in wireframes
13/01/2017	Kevin	More user stories and reorganization
15/01/2017	Kevin	User stories for “I shouldn’t be able to” case
24/02/2017	Remy	Added some missing screens (tooltips, edit user)
05/10/2020	Cédric	Review functional specifications

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## Introduction

### The problem

Often users need to share a password directly with multiple collaborators. It can therefore become quite time consuming to manually add each users for each passwords. The group feature, also called team management, solves this problem.

### Proposed approach

The passbolt instance administrator manages groups and assigns one (or more) group manager(s) per group. This group manager is responsible to add/remove users from the group and share the group passwords with new users. Users is able to share passwords directly with a group they are a member of, rather than with each user individually.

See the ["approach rationale" section](#) for more information about why the group manager is a must have requirement.

### Use case diagram

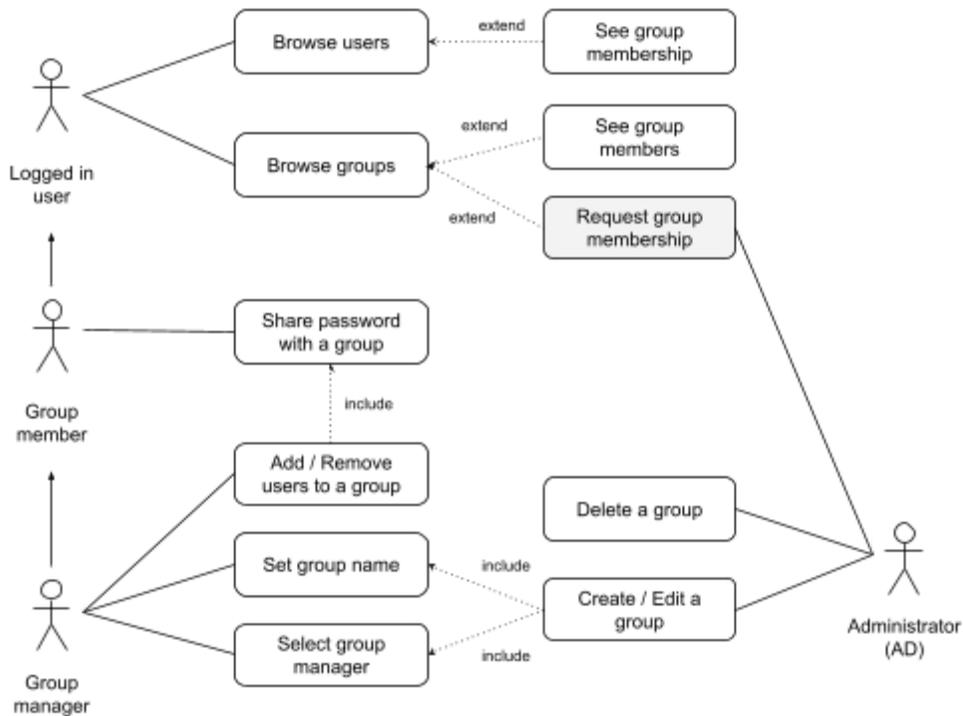


fig.1. Use case diagram

## User stories summary

For current implementation status by user story please check the following:

[https://docs.google.com/a/passbolt.com/spreadsheets/d/14ZGnpdwBvTMo6LSfDtgMtyl7t\\_tFRti-mbWysjSr5M/edit?usp=sharing](https://docs.google.com/a/passbolt.com/spreadsheets/d/14ZGnpdwBvTMo6LSfDtgMtyl7t_tFRti-mbWysjSr5M/edit?usp=sharing)

### Groups information:

Story	Moscow
<p><a href="#">As a user I can browse the list of groups</a></p> <ul style="list-style-type: none"> <li>All groups in the groups section of the user workspace</li> <li>The groups I am a member of in the groups section of the users workspace</li> <li>The groups I manage in the groups section of the users workspace</li> </ul>	<p>Must Must Should  Should</p>
<p><a href="#">As a user I can see a group information</a></p> <ul style="list-style-type: none"> <li>From the sidebar</li> </ul>	<p>Must</p>
<p>[PASSBOLT-2012] <a href="#">As a user I can see which groups a user is a member of</a></p> <ul style="list-style-type: none"> <li>From the sidebar</li> </ul>	<p>Should</p>
<p><a href="#">As an admin I can see which groups a user is member of</a></p> <ul style="list-style-type: none"> <li>[PASSBOLT-2014] From the sidebar</li> <li>[PASSBOLT-2015] From the “edit user” dialog</li> </ul>	<p>Should Should Should</p>
<p><a href="#">As a user I can see which users are part of a given group</a></p> <ul style="list-style-type: none"> <li>From the sidebar</li> <li>By filtering the main users section</li> </ul>	<p>Must</p>
<p><a href="#">As a group manager I can see which users are part of a given group</a></p> <ul style="list-style-type: none"> <li>From the sidebar</li> <li>By filtering the main users section</li> <li>From the edit groups dialog (for the groups I manage)</li> </ul>	<p>Must</p>
<p><a href="#">As an admin I can see which users are part of a given group</a></p> <ul style="list-style-type: none"> <li>From the sidebar</li> <li>By filtering the main users section</li> <li>From the edit groups dialog</li> </ul>	<p>Must</p>
<p><a href="#">As a user I can see the groups I am a member of</a></p> <ul style="list-style-type: none"> <li>From the list of groups in the user workspace</li> <li>From my profile</li> </ul>	<p>Should</p>

## Groups management:

Story	Moscow
Create groups	
<a href="#">As a user I shouldn't be able to create a group</a>	Must
<a href="#">As a group manager I shouldn't be able to create a group</a>	Must
<a href="#">As an administrator I can create a group</a> <ul style="list-style-type: none"> <li>Using the new button in the users workspace</li> <li>I should provide a group name</li> <li>I should provide at least one group manager</li> <li>The first user added should be set automatically as a group manager, and the second one as a group member</li> </ul>	Must
Delete groups	
<a href="#">As a user I shouldn't be able to delete a group</a>	Must
<a href="#">As a group manager I shouldn't be able to delete a group</a> <ul style="list-style-type: none"> <li>I shouldn't be able to delete a group that I manage</li> <li>I shouldn't be able to delete a group that I don't manage</li> </ul>	Must
<a href="#">[PASSBOLT-1973]</a> <a href="#">[PASSBOLT-2006]</a> <a href="#">As an administrator I can delete a group</a> <ul style="list-style-type: none"> <li>From the main delete button</li> <li>From the group contextual menu</li> <li>If the group is the sole owner of one or several passwords, I should be requested to select a new owner for these passwords.</li> <li>If the group has access to one / several passwords, I should see a warning message saying that all the users of the group will lose access to these passwords.</li> </ul>	Should Must Could  Could
Edit groups	
<a href="#">As a user I shouldn't be able to edit a group</a>	Must
<a href="#">As a group manager I can edit a group</a> <ul style="list-style-type: none"> <li>From the main edit button</li> <li>From the contextual menu</li> <li>From the groups sidebar with the edit shortcuts</li> <li>I shouldn't be able to edit the group name</li> </ul>	Should Must

<ul style="list-style-type: none"> <li>• I shouldn't be able to edit a group I don't manage</li> </ul>	
<a href="#">As an administrator I can edit a group</a> <ul style="list-style-type: none"> <li>• From the main edit button</li> <li>• From the contextual menu</li> <li>• From the groups sidebar with the edit shortcuts</li> <li>• I can edit the group name</li> </ul>	Must

## Group membership management:

Story	Moscow
Edit membership roles	
<a href="#">[PASSBOLT-2016] As an administrator I can edit the membership roles</a> <ul style="list-style-type: none"> <li>• I can edit the group members roles and promote a group member to group manager</li> <li>• I cannot save a group that doesn't have at least one group manager</li> </ul>	Must
<a href="#">As a group manager I can edit the membership roles</a> <ul style="list-style-type: none"> <li>• I can edit the group members roles and promote a group member to group manager</li> <li>• I cannot save a group that doesn't have at least one group manager</li> </ul>	Must
Add user to a group	
<a href="#">As a group manager I can add a user to a group</a> <ul style="list-style-type: none"> <li>• Using the edit group dialog</li> <li>• Using the drag and drop</li> </ul>	Must Could
Remove user from a group	
<a href="#">As an admin, I can remove a user from a group</a> <ul style="list-style-type: none"> <li>• Using the edit group dialog</li> <li>• Using the edit user dialog</li> <li>• I cannot remove the last group manager of a group and save (edit group dialog)</li> <li>• I cannot remove the last group manager of a group and save (edit user dialog)</li> </ul>	Should
<a href="#">As a group manager, I can remove a user from a group</a> <ul style="list-style-type: none"> <li>• using the edit group dialog</li> </ul>	Must Should

<ul style="list-style-type: none"> <li>I cannot remove the last group manager of a group and save (edit group dialog)</li> </ul>	
Request a user to be added to a group	
<a href="#">As an admin I should be able to request a user to be added to a group</a> <ul style="list-style-type: none"> <li>Using the edit group dialog</li> <li>Using the edit user dialog</li> </ul>	Should
As a logged in user I should be able to request to be added to a group	Should

## Password sharing:

Story	Moscow
<a href="#">As a user I can share a password with a group</a>	Must
<a href="#">As a user I can unshare a password with a group</a>	Must
<a href="#">As a user I can see which groups a password is shared with</a> <ul style="list-style-type: none"> <li>in the sidebar in the password workspace</li> <li>I can see which users are part of a group a password is shared with</li> </ul>	Must Should

## Email notifications:

Story	Moscow
<a href="#">As a user I should receive an email notification when a password is shared with a group I am a member of</a>	Should
<a href="#">As a group manager I should receive a notification when an admin has requested a user to be added to a group I manage.</a>	Could
<a href="#">As a group manager I should receive a notification when a user request to be added to a group I manage.</a>	Could
<a href="#">As a user I should receive a notification when I am added to a group</a>	Should
<a href="#">As a group member I should receive a notification when my role in the group has changed</a>	Could
<a href="#">As a user I should receive a notification when I am deleted of a group</a>	Could

<a href="#">As a group manager I should receive a notification when another group manager add a user to a group</a>	Could
<a href="#">As a group manager I should receive a notification when another group manager removed a user from a group</a>	Could
<a href="#">As a group manager I should receive a notification when a user who is part of one (or more) groups I manage is deleted.</a>	Could

**Delete user:**

Story	Moscow
As an admin I shouldn't be able to delete a user that is the unique owner of shared passwords	Must

**Approach rationale**

**Group manager role**

One of the main difficulty of the group feature implementation lies in the fact that each time a new user is added to a group, **all the passwords that can be accessed by a group need to be encrypted for any new user**. This means that if Ada wants to add Betty to a group, Ada needs to have access to all the passwords that are accessible by this group and Betty public key. This is due to the security model of passbolt: a password is encrypted once for each user, with their public keys.

One approach could be to start using group keys that are shared with group members. We do not think it is a good option as this type of design departs from the current user-centric public-key encryption model of passbolt. Furthermore it would introduce new kind of issues such as how do we communicate this new secret key to each users and import it securely, how do we set a common passphrase on such secret, how would encrypted email integration work in this context, etc.

Given these constraints, we understand that the problematic now becomes: **who should be able to manage the users of a group, and consequently who should encrypt the passwords for new group members?**

There are 3 possibilities:

1. **The admin manages the users and encrypt the passwords:** It would seem logical that the admin user also manages the group members. However, this means that the

admin user has access to all the passwords of the application in order to be able to re-encrypt them for the new group members. Most of the passbolt user we have spoken to at this stage do not think this is a good compromise security-wise.

2. **The admin manages the users but delegate the encryption to group members:** An alternative to the solution 1 would be still let the administrator add user to a group but delegate the encryption to the users who have access to the passwords to encrypt. This could be done at later stage, by sending an alert to them and asking them to connect to passbolt for example, so that they can take care of the encryption. This process would introduce other timing issues that would have an impact on usability and therefore be quite complex to implement.
3. **The admin appoints a group manager that manages users and encrypt the passwords:** When a group is created by an admin user, a group manager has to be selected and attributed to the same group. Only the group manager is able to manage the group members.

Security and a ease of use being our main priorities, the options 1 and 2 are approaches that we consider not satisfactory. **We therefore have selected the option 3: The admin appoints a group manager.**

The “group manager” approach has several advantages:

- It is more secure, since no superadmin user has access to all the passwords;
- It is easy to understand and to represent visually;
- It corresponds better to a classic organization induction process: the passbolt administrator, e.g. somebody in the IT department, add the user to passbolt system and inform the team leader in another department to share passwords with the new staff member.

## Permission priorities

### Priorities between the groups a user belongs to

If a user belongs to several groups which have all a permission on a resource, the user will get the permission with the highest privileges among them. For example if Ada is a member of the group *Webteam* that have read only access to the *wordpress admin* password, and is also a member of the group *Sysops* that have write access to the same password, Ada will have write access.

## Direct permission priority over group priority

If a user belongs to a group that a resource is shared with, and also has a direct permission on this resource, whatever has the highest priority will be used. For example if Ada has a direct read permission on a password and is also a member of a group that has write access, Ada will have write access.

## Functional specifications

### User experience

#### Password workspace

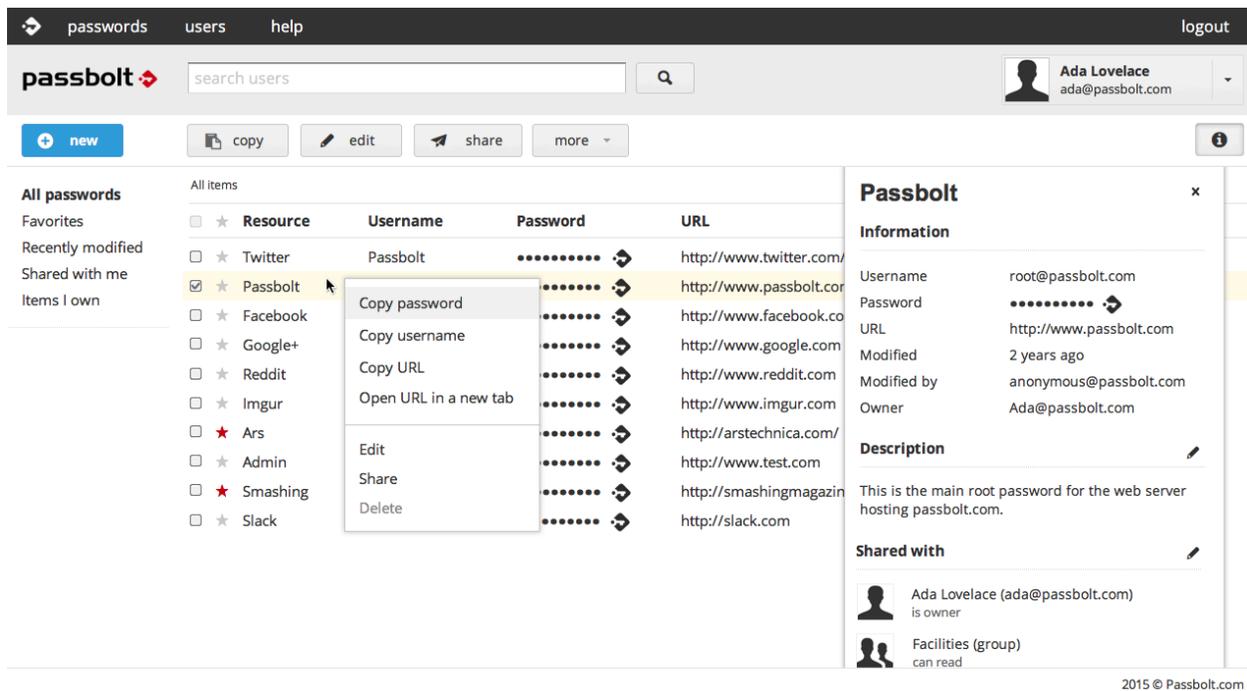


fig.2. password workspace

## 'Shared with' sidebar section

The only notable change in the password workspace is the “shared with” section of the sidebar when an item is selected, this section also shows which groups have access.

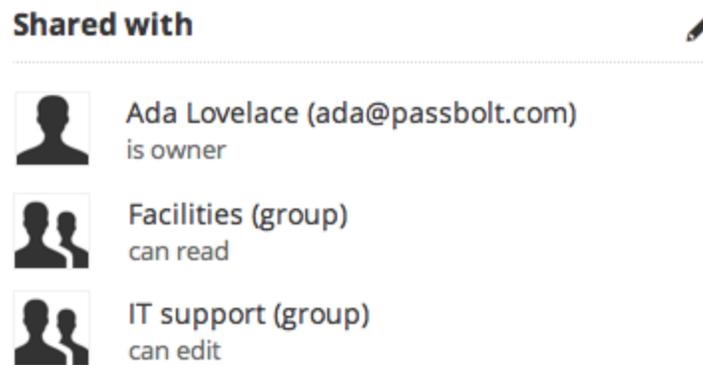


fig.3. "Shared with" section

## Share dialog

When sharing a password it is now possible to enter the name of a group and to define the level of privilege. The line below the user / group name will now show the latest operation done during the edit, a small but helpful improvement. The email / group information will still be available by hovering over the "information" icon.

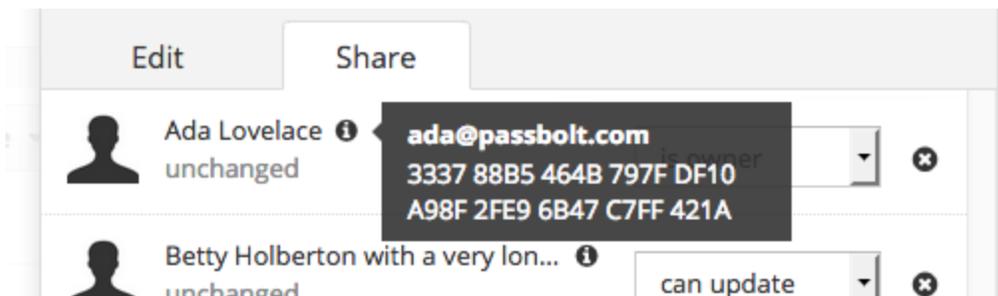


fig.4.1 information tooltip

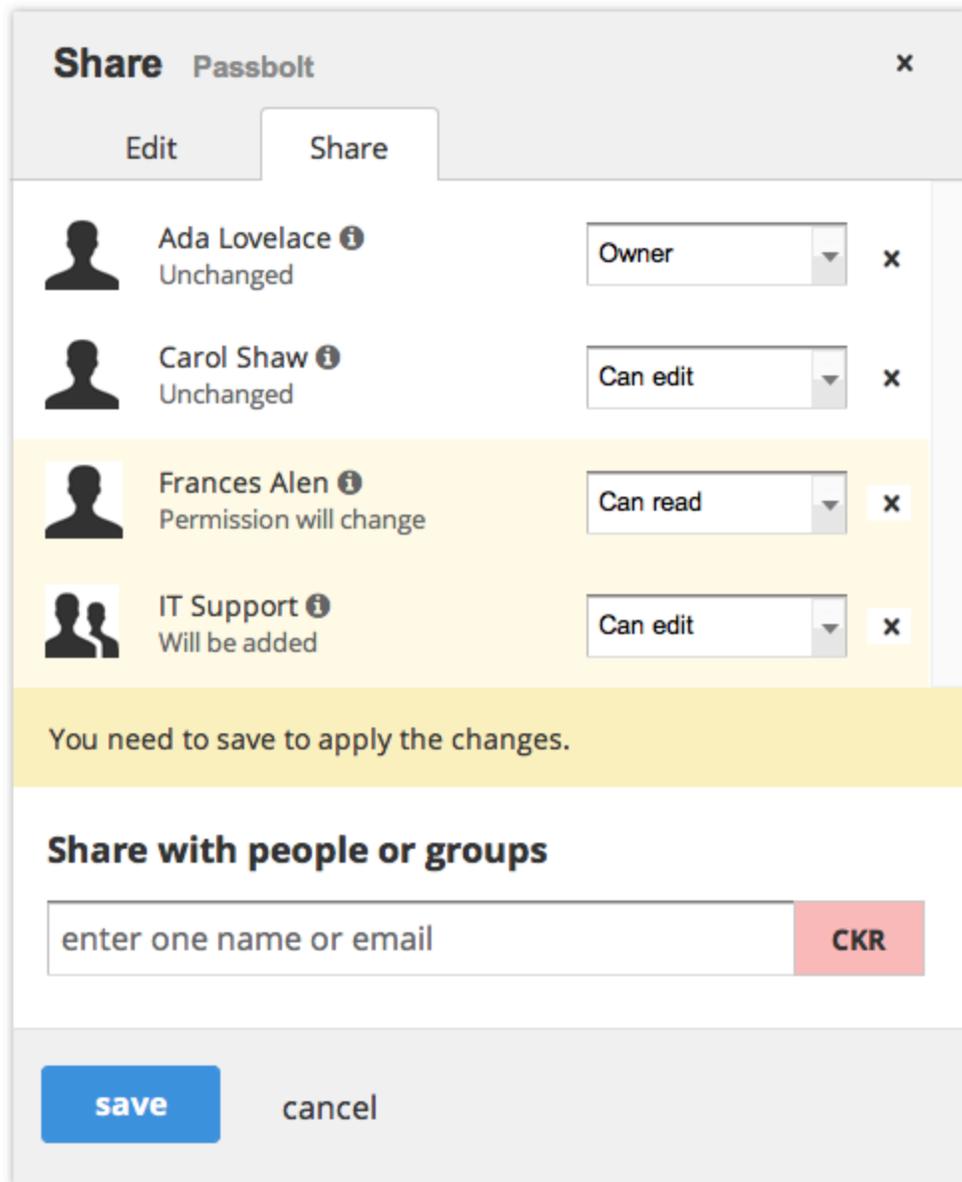


fig.4.2 share dialog with group support

## Share dialog autocomplete

When typing a name, both users and groups will be listed in the suggestion list. The label has been updated to “Share with people or groups” to reflect this.

## Share with people or groups

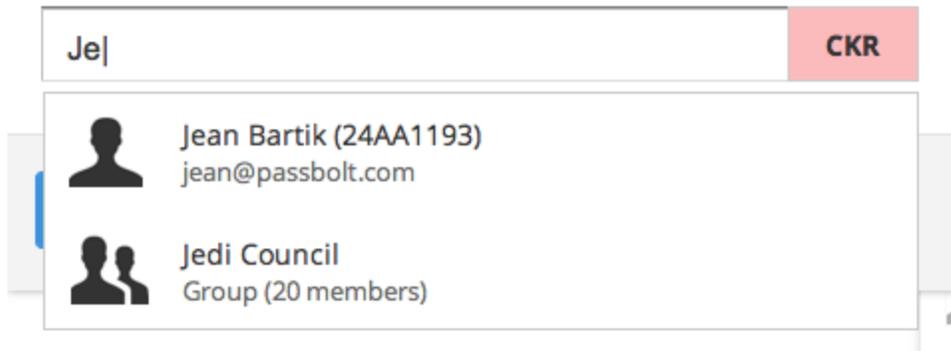
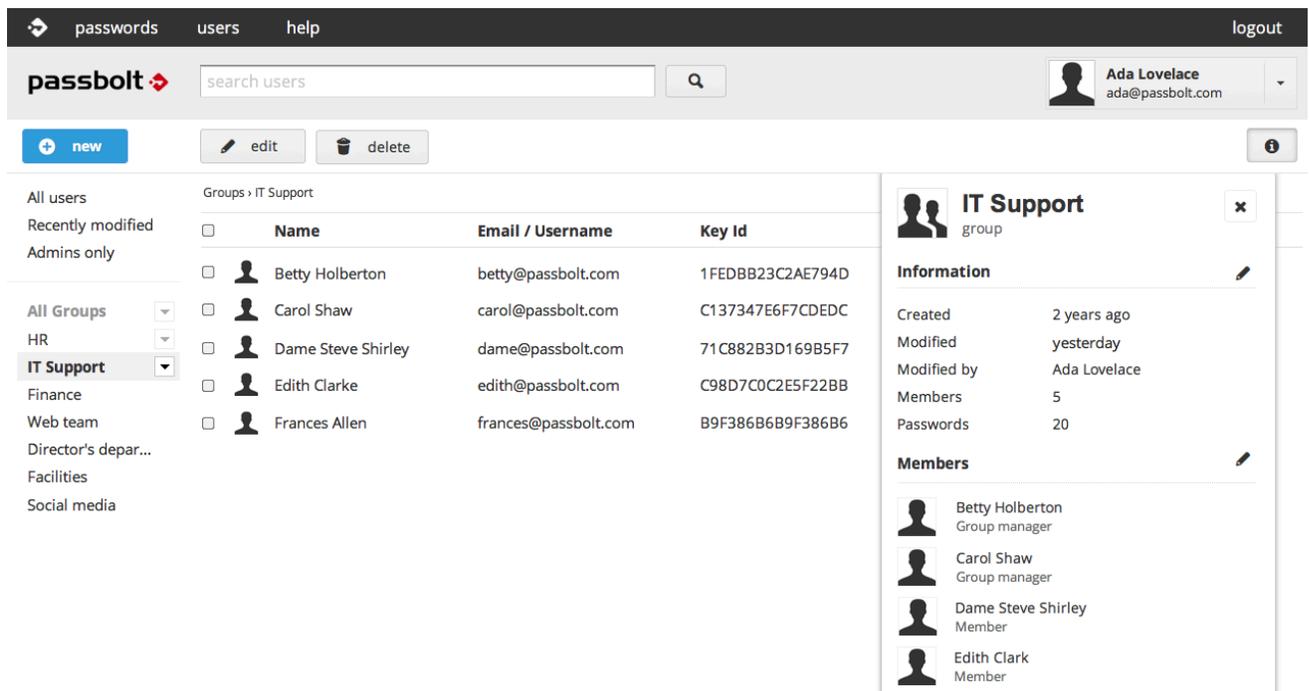


fig.5. Share, group card look in autocomplete

## User workspace



2015 © Passbolt.com

fig.6. user workspace with group selected

### 'New' button

Instead of the “create” user button, we now have a “new” button that triggers a drop down menu that allows group managers to choose to create either a group or a user.

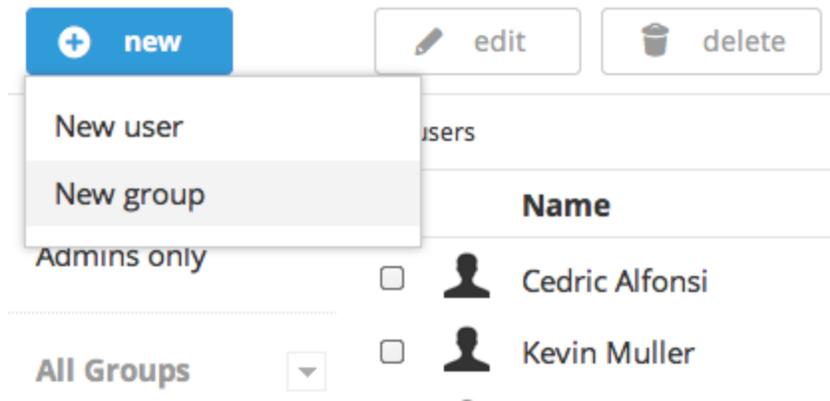


fig.7. New button on user workspace is pressed

## 'Groups' filters

We can now filter the users that belong to a certain group with the click of a button. When selecting a group the edit or/and delete button becomes active depending on the role and action. The breadcrumb also changes, and a sidebar containing group information is displayed.

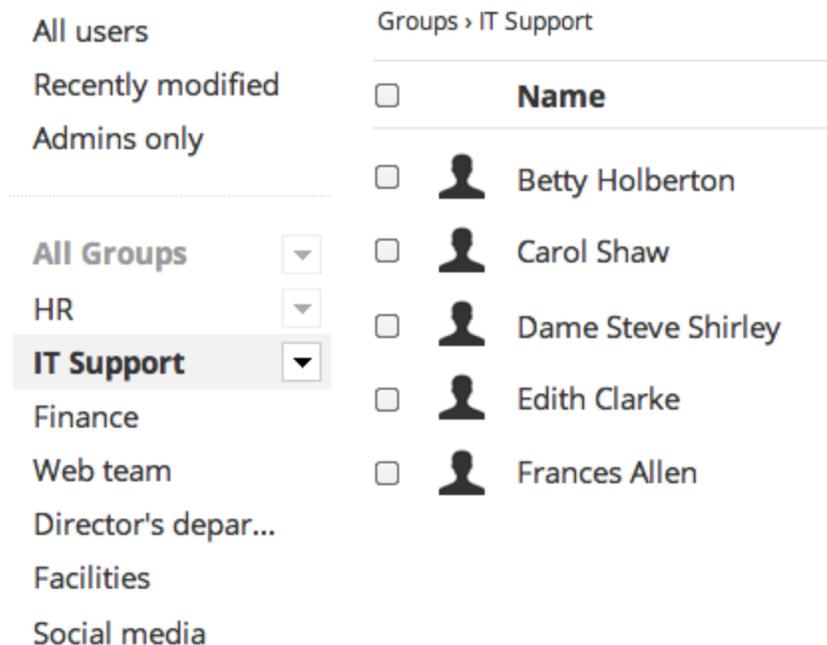
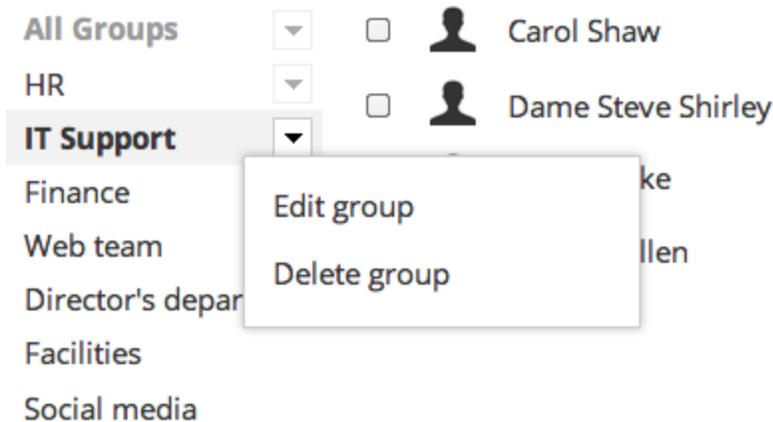


fig.8. Groups filters

## 'Groups' filter action menu

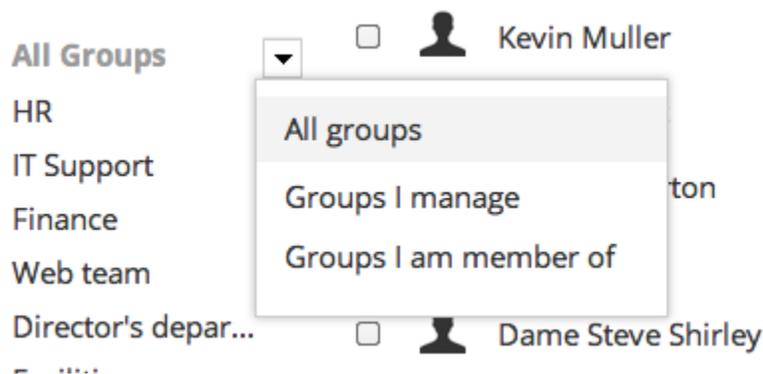
In the left sidebar the user can see a new section where all the groups are listed. The groups a user has the privileges to manage are marked with a dropdown button. This toggle triggers a contextual menu that allows interaction with the group.



*fig.9. User workspace, groups filter, contextual menu: group actions*

## 'Groups' additional filters

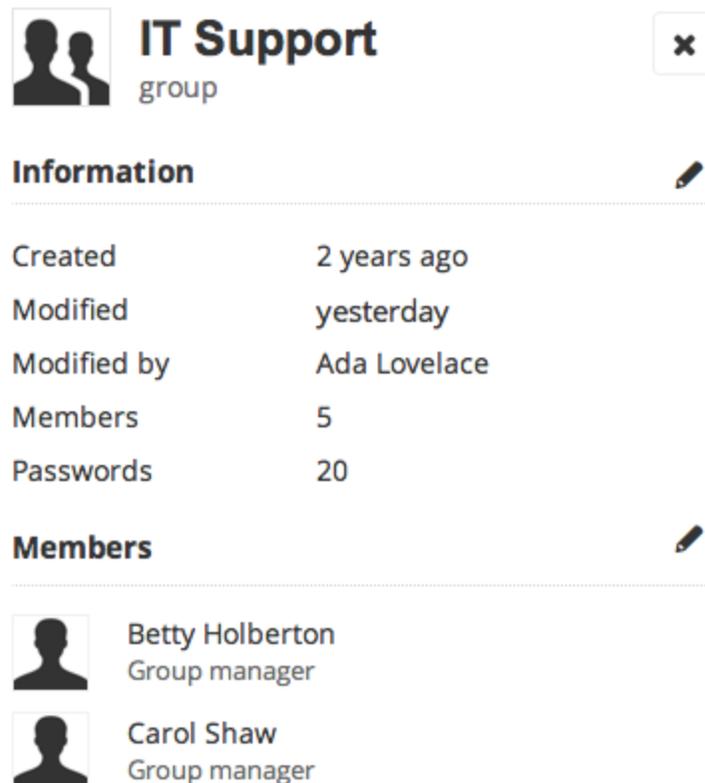
A user may not want to see all the groups, but rather only the group they manage or only the group they are a member of.



*fig.10. User workspace, groups filter, contextual menu: additional filters*

## Sidebar: group selected

When a group is selected in the filter section on the left side, the sidebar on the right displays information about the selected group. This prompts the user that this group is indeed selected and interacting with the edit and delete buttons will affect this particular group. This panel will show information about the group as well as list group members and provide a handy edit button.



The screenshot shows a sidebar for a selected group. At the top, there is a header for the group 'IT Support' with a group icon (two silhouettes) and a delete button (an 'x' in a square). Below the header is an 'Information' section with a pencil icon for editing. This section contains a table of group details:

Created	2 years ago
Modified	yesterday
Modified by	Ada Lovelace
Members	5
Passwords	20

Below the information is a 'Members' section with a pencil icon for editing. It lists two group managers:

- Betty Holberton  
Group manager
- Carol Shaw  
Group manager

*fig.11. user workspace, group selected sidebar item.*

## Sidebar: user selected

Similar to the password entry, when a user record is selected in the user workspace, that users group memberships will be shown in the sidebar.

## Groups

-  IT Support  
group manager
-  Facilities  
member
-  Web team  
member

fig.12. User workspace, user record selected sidebar, groups section

### User edit dialog

### Edit User Ada Lovelace ✕

Account Groups

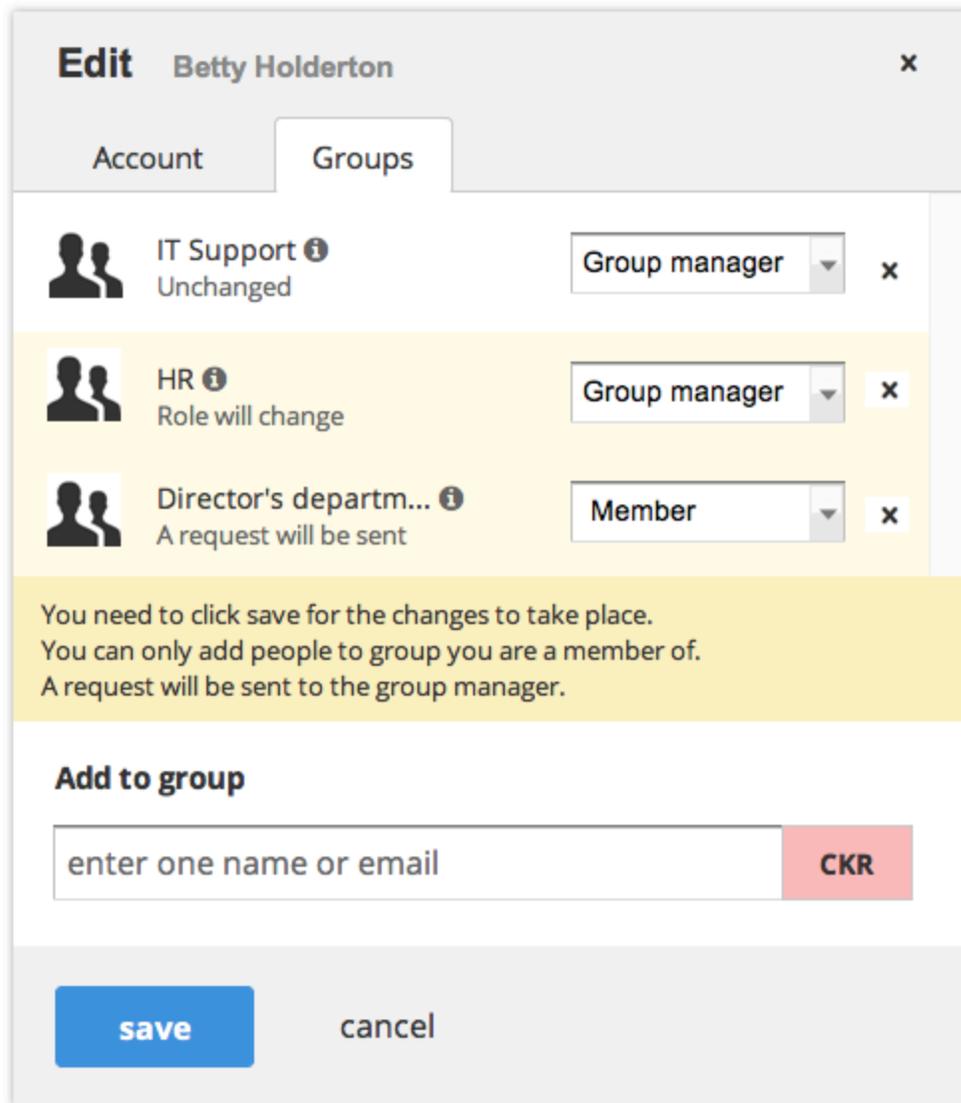
**First Name \***

**Last Name \***

**Username / Email \***

**Role**  
 This user is an administrator  
Note: Administrators can add and delete users. They can also create groups and assign group managers. Admin can not see all passwords.

Fig. edit user (account)



*fig. User edit dialog with groups tab*

A notable change in this dialog is the appearance of a groups tab. This allows the management of the groups a user belongs to. Admin users cannot add people to a group. Instead, they send an email request asking the group manager to add the user.

### Group create dialog

When creating a group, the group dialog is shown to the user. They can enter the group name and add group members before saving.

### Create Group ×

**Group name \***

**Group members \***

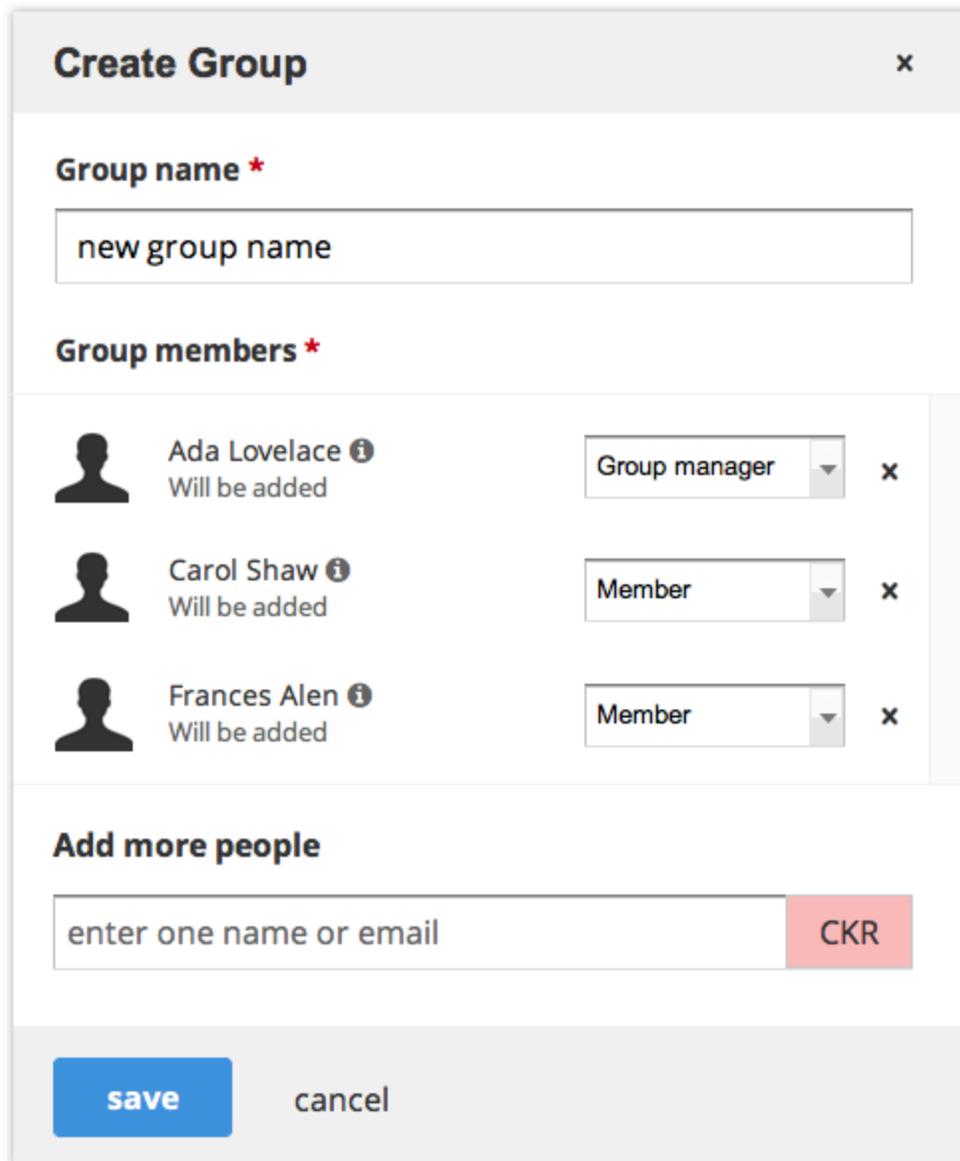
The group is empty, please add a group manager

**Add people**

 CRK

save cancel

fig.14. Group create dialog



**Create Group** x

**Group name \***

new group name

**Group members \***

	Ada Lovelace  Will be added	Group manager ▾	x
	Carol Shaw  Will be added	Member ▾	x
	Frances Alen  Will be added	Member ▾	x

**Add more people**

enter one name or email CKR

**save** cancel

fig.15. Group create dialog populated with data

### Group edit dialog

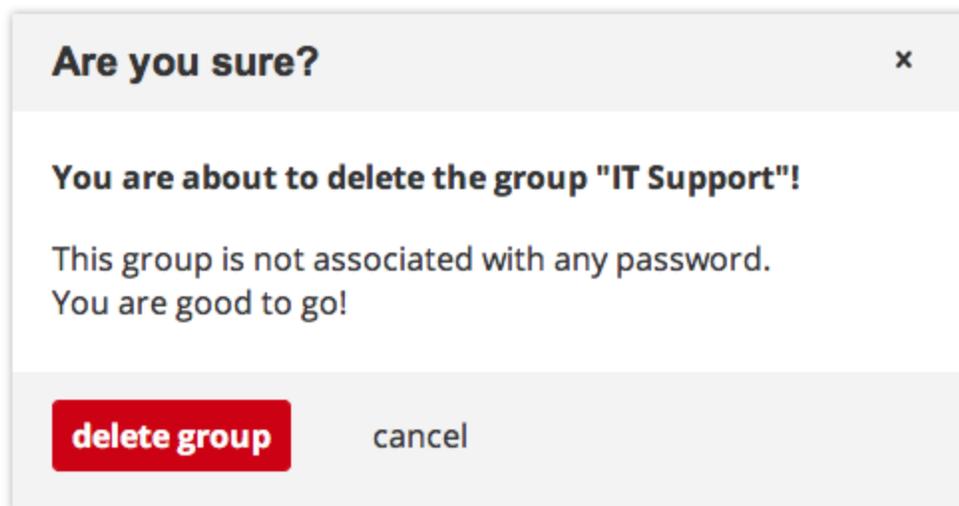
The group edit dialog is almost the same as the group create dialog, with just a few differences:

- As an admin, adding a new user means requesting the group manager to add it. The fact that it is only a request will be mentioned explicitly under the user name. Once again, this is due to the fact that the admin is not able to encrypt the secrets of to the newly added users (because of the security model).

- As a group manager, the group name field will be disabled. A group manager is not allowed to modify the group name. **We'd like your opinion on this, see below for other open questions we have.**

## Group delete dialog

To prevent an administrator from removing a group by accident we show a confirmation dialog. Three cases are possible: if the group is the owner of some passwords we need to transfer the ownership to one group administrator. If the group does not have any passwords associated we display a different message than the case where some user will actually lose access.



*fig.16. Group delete confirmation dialog*

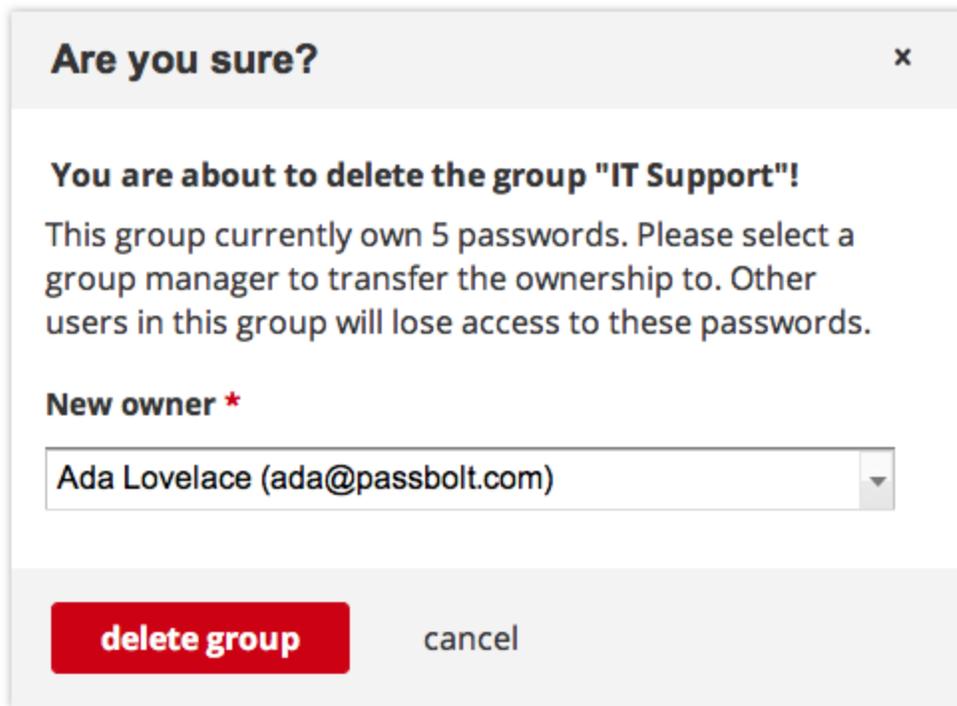


fig.17. Group delete confirmation dialog - group is owner of one or more password

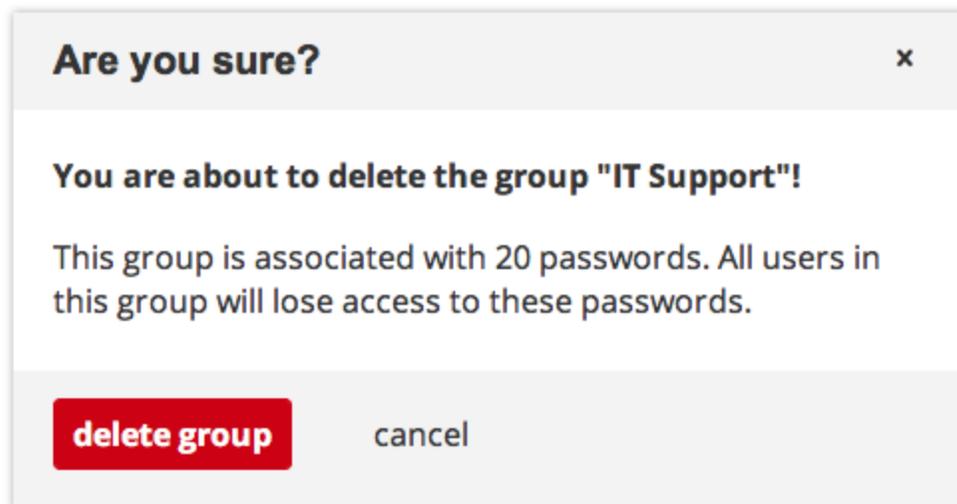


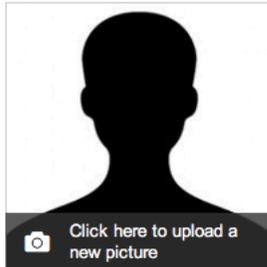
fig.18. Group delete confirmation dialog - group is associated with one or more password

## Profile workspace

### Group section

It is possible for a user to see which group they are a member of directly from their profile.

#### Profile



Name	Ada Lovelace
Email	ada@passbolt.com
Role	admin
Modified	last year
Created	2 years ago
Main Key	3337 88B5 464B 797F DF10 A98F 2FE9 6B47 C7FF 421A

Note: Sorry it is not possible to change your key at the moment.

#### Groups

-  IT Support group manager
-  Facilities member
-  Web team member

*fig. Profile workspace, new group section in the user profile*

## User stories

### View groups

As LU I see the groups of my organization in the users workspace primary sidebar

- ✓ As LU I see a loading feedback in the section when the groups are not yet fetched
- ✓ As LU I see the groups of my organization
- ✓ As LU I don't see the list broken if a group property is longer than the row that displays it

**Scenario:** As LU I see the groups of my organization

Given that I am logged in as LU  
And I am on the users workspace  
Then I should see the list of groups in the left hand sidebar

As LU I filter the groups in the users workspace primary sidebar by groups I am member of

- ✓ As LU I filter the groups in the users workspace primary sidebar by group I am member of
- ✓ As LU I see an empty feedback if I'm member of no group after filtering by group I am member of

**Scenario:** As LU I filter the groups in the users workspace primary sidebar by group I am member of

Given I am logged in as Ada  
And I am member of at least one group  
When I filter the groups by group I'm member of  
Then I should see the list filtered by group I am member of

As LU I filter the groups in the users workspace primary sidebar by all groups

- ✓ As LU I filter the groups in the users workspace primary sidebar by all groups

## As LU I filter the groups in the users workspace primary sidebar by groups I manage

- ✓ As LU I filter the groups in the users workspace primary sidebar by group I manage
- ✓ As LU I see an empty feedback if I manage no group after filtering by group I manage

**Scenario:** As LU I filter the groups in the users workspace primary sidebar by group I am member of

Given I am logged in as Ada

And I manage at least one group

When I filter the groups by group I manage

Then I should see the list filtered by group I manage

## As LU I should be able to see the metadata of a group from the group sidebar

- ✓ As LU can see the metadata of a group from the group sidebar
- ✓ As LU I can hide the group meta section

**Scenario:** As LU can see the metadata of a group from the group sidebar

Given I am logged in as Ada

When I select a group

Then I should see the group sidebar opening on the right hand side

Then I should see the sidebar opening on the right hand side

And I should see a group information section

And I should see the created date

And I should see the modified date

And I should see the latest user who modified the group

And I should see the number of members

And I should see the number of passwords

## As LU I should be able to see the members of a group from the group sidebar

- ✓ As LU I should see a loading feedback if the members list is not yet fetched
- ✓ As LU I can see the members of a group from the group sidebar

**Scenario:** As LU can see the members of a group from the group sidebar

Given I am logged in as Ada

And I selected the group Accounting which has 2 members

Full name	Username	Membership
Frances Allen	frances@passbolt.com	Manager
Grace Hopper	grace@passbolt.com	member

When I open the Group Member section of the group sidebar

Then I should see the members of this group

As LU I should be able to see the groups a user is member of from the user sidebar

- ✓ As LU I see a loading feedback in the group section when the groups are not yet fetched
- ✓ As LU I see an empty feedback for users who are not member of any group
- ✓ As LU I should be able to see the groups a user is member of from the user sidebar
- ✓ Hide the groups section for users who have not yet completed their registration

As LU I should be able to see the group I am member of from my profile

- ✓ As LU I see a loading feedback in the group section when the groups are not yet fetched
- ✓ As LU I see an empty feedback for users who are not member of any group
- ✓ As LU I should see the groups I am member of from my user profile

**Scenario:** As LU I should see the groups I am member of from my user profile

Given I am logged in as Ursula

And I am member of 2 groups

Group name	Membership
Human resource	Member
IT Support	Manager

When I open my profile

Then I should see the groups I am member of in the Groups section

## Filter groups

As LU I should be able to filter the users using the 'filter by groups' section in the primary sidebar of the users workspace

- ✓ As LU I filter the users using the 'filter by groups section in the primary sidebar
- ✓ As LU I should see which group is used to filter the workspace in the breadcrumb

**Scenario:** As LU I filter the users using the 'filter by groups section in the primary sidebar

Given I am logged in as Frances

And The group Accounting has 2 members

Full name	Username	Membership
Frances Allen	frances@passbolt.com	Manager
Grace Hopper	grace@passbolt.com	member

When I select the group accounting in the primary sidebar

Then I should see only the users of the group Accounting in the grid

## Add group

As AD I should be able to start creating a group

- ✓ As AD I should be able to start creating a group
- ✓ As NOT\_AD I shouldn't be able to start creating a group

**Scenario:** As AD I should be able to start creating a group

Given I am logged in as Admin

When I navigate to the users workspace

Then I should see the create button in the workspace primary menu

When I click on it

Then I should see the create group dialog

**Scenario:** As NOT\_AD I shouldn't be able to start creating a group

Given I am logged in as Ada

When I navigate to the users workspace

Then I should not see the create button in the workspace primary menu

As AD I should be able to create a group

- ✓ As AD I can create a group
- ✓ As AD I should be added as group manager by default
- ✓ As AD I should see the group added to the groups list in the primary sidebar after adding a group with success
- ✓ As AD I see a success toaster message after adding a group with success
- ✓ As AD I cannot create a group with an invalid group name (already taken, empty)
- ✓ As AD I cannot update the form fields while submitting the form
- ✓ As AD I should see a processing feedback while submitting the form
- ✓ As AD I can stop adding a group by clicking on the cancel button
- ✓ As AD I can stop adding a group by closing the dialog
- ✓ As AD I can stop adding a group with the keyboard (escape)
- ✓ As AD I should see an error dialog if the submit operation fails for an unexpected reason

As AD I can search for user to add to a group while creating a group

- ✓ As AD I can search members to add to the group
- ✓ As AD I see the anti-phishing enabled when the member search field is getting the focus
- ✓ As AD I see the anti-phishing disabled when the member search field is losing the focus
- ✓ As AD I see a loading feedback when the search is fetching the data
- ✓ As AD I see an empty feedback if the search doesn't match any user
- ✓ As AD I cannot add a user already in the members list

As AD I can remove user from the members list while creating a group

- ✓ As AD I can remove a user from the members list
- ✓ As AD I see an error feedback when I remove the last group manager from the members list
- ✓ As AD I see the submit button disabled if the members list doesn't contain at least one group manager

## As AD I can change a membership type of a member while creating a group

- ✓ As AD I can change the membership type of a member
- ✓ As AD I see an error feedback when I remove the last group manager from the members list
- ✓ As AD I see the submit button disabled if the members list doesn't contain at least one group manager

## Edit group

### As AD I should be able to start editing a group from the Filter by groups in the primary sidebar of the users workspace

- ✓ As AD I should be able to start editing a group
- ✓ As GM I should be able to start editing a group I am group manager of
- ✓ As GM I shouldn't be able to start editing a group I am not group manager of

**Scenario:** As AD I should be able to start editing a group

Given I am logged in as Admin

And I opened the contextual menu of a group of the Filter by groups

Then I should see the edit option in the contextual menu options

When I click on it

Then I should see the edit group dialog

### As AD I should be able to start editing a group from group sidebar of the users workspace

- ✓ As AD I should be able to start editing a group
- ✓ As GM I should be able to start editing a group I am group manager of
- ✓ As GM I shouldn't be able to start editing a group I am not group manager of

### As AD I should be able to rename a group

- ✓ As AD I can rename a group
- ✓ As NOT\_AD I cannot rename a group
- ✓ As AD I should see the group renamed in the Filter by group list of the primary sidebar after editing it
- ✓ As AD I should see the group renamed in the group sidebar after editing it
- ✓ As AD I see a success toaster message after renaming a group with success
- ✓ As AD I cannot change the group name after submitting
- ✓ As AD I should see a processing feedback while submitting

- ✓ As AD I can stop renaming a group by clicking on the cancel button
- ✓ As AD I can stop renaming a group by closing the dialog
- ✓ As AD I can stop renaming a group with the keyboard (escape)
- ✓ As AD I should see an error dialog if the submit operation fails for an unexpected reason

## As GM I should be able to add a user to an existing I am a manager

- ✓ As GM I can search and add members to a group
- ✓ As NOT\_GM I cannot search and add members to a group
- ✓ As GM I should see a message notifying me that the list of members changed and I need to submit my changes to persist them
- ✓ As AD I see a loading feedback when the search is fetching the data
- ✓ As AD I see an empty feedback if the search doesn't match any user
- ✓ As GM I cannot add a user already in the members list
- ✓ As GM I should see the Group Members list of the group user sidebar updated after adding a user to a group with success

## As GM I can change a membership type of a member of an existing group I am a manager

- ✓ As GM I can change the membership type of a member
- ✓ As GM I should see a message notifying me that the list of members changed and I need to submit my changes to persist them
- ✓ As GM I see an error feedback when I remove the last group manager from the members list
- ✓ As GM I see the submit button disabled if the members list doesn't contain at least one group manager
- ✓ As GM I should see the Group Members list of the group user sidebar updated after changing a member membership type of a group with success

## As AD I can change a membership type of a member of an existing group I am a manager

Same as: As GM I can change a membership type of a member of an existing group I am a manager

## As GM I should be able to remove a user from an existing group I am a manager

- ✓ As GM I can remove a user from the members list
- ✓ As GM I should see a message notifying me that the list of members changed and I need to submit my changes to persist them

- ✓ As GM I see an error feedback when I remove the last group manager from the members list
- ✓ As GM I see the submit button disabled if the members list doesn't contain at least one group manager
- ✓ As GM I should see the Group Members list of the group user sidebar updated after removing a user from a group with success

As AD I should be able to remove a user from an existing group I am a manager

Same as: As GM I should be able to remove a user from an existing group I am a manager

## Delete group

As AD I should be able to start deleting a group from the Filter by groups in the primary sidebar of the users workspace

- ✓ As AD I should be able to start deleting a group
- ✓ As NOT\_AD I shouldn't be able to start deleting a group

**Scenario:** As AD I should be able to start creating a group

Given I am logged in as Admin  
And I opened the contextual menu of a group of the Filter by groups  
Then I should see the delete option in the contextual menu options  
When I click on it  
Then I should see the confirm delete group dialog

**Scenario:** As NOT\_AD I shouldn't be able to start deleting a group

Given I am logged in as Ada  
When I put my mouse over a group of the Filter by groups  
Then I should not see a drop down (+) button

As LU I should be able to delete a group

- ✓ As AD I can delete group
- ✓ As AD I should not see the group in the Filter by group list of the primary sidebar after deletion
- ✓ As AD I should not see the group sidebar after deletion
- ✓ As AD I see a success toaster message after deleting a group with success
- ✓ As AD I cannot interact with the confirm dialog after submitting

- ✓ As AD I should see a processing feedback while submitting
- ✓ As AD I can stop deleting a group by clicking on the cancel button
- ✓ As AD I can stop deleting a group by closing the dialog
- ✓ As AD I can stop deleting a group with the keyboard (escape)
- ✓ As AD I should see an error dialog if the submit operation fails for an unexpected reason

As AD I should be able to see the resources a group is the sole owner while I'm deleting a group

- ✓ As AD I see the resources a group is the sole owner while deleting this group

As AD I should be able to see the folders a group is the sole owner while I'm deleting a group

- ✓ As AD I see the folders a group is the sole owner while deleting this group

As AD I should be able to transfer the resources a group is the sole owner to another user or group while I'm deleting a group

- ✓ As AD can transfer the resources a group is the sole owner to another user or group while I'm deleting this group
- ✓ As AD I cannot submit the form until all the resources permissions have been transferred

As AD I should be able to transfer the folders a group is the sole owner to another user or group while I'm deleting a group

- ✓ As AD can transfer the folders a users is the sole owner to another user or group while I'm deleting this user
- ✓ As AD I cannot submit the form until all the folders permissions have been transferred

## Legacy user stories

### 1. As a user I can browse the list of groups

**As a** logged-in user  
**I want to** browse the list of groups  
**So that I** know which groups are available

#### 1.1 : I can browse the list of all the groups in the groups section of the user workspace

Given that I am logged in as LU  
And I am on the users workspace  
Then I should see the list of groups in the left hand sidebar, below the filters

#### 1.2: I can browse the groups I am a member of in the groups section of the users workspace

Given that I am a logged-in user  
And I am on the users workspace  
Then I should see a groups section  
And I should see a “All groups” section filter with a drop down menu as first item of the groups section  
When I click on the drop down menu of “All groups”  
Then I should see a list of filters  
And I should see a filter named “Groups I am member of”  
When I click on “Groups I am member of”  
Then I should see that the section filter has become “Groups I am member of” instead of “All groups”  
And I should see in the list of groups below that the groups displayed are only the groups that I am a member of

#### 1.3: I can browser the groups I manage in the groups section of the users workspace

Given that I am a logged-in user  
And I am on the users workspace  
Then I should see a groups section  
And I should see a “All groups” section filter with a drop down menu as first item of the groups section  
When I click on the drop down menu of “All groups”  
Then I should see a list of filters  
And I should see a filter named “Groups I manage”  
When I click on “Groups I manage”

Then I should see that the section filter has become “Groups I manage” instead of “All groups”

And I should see in the list of groups below that the groups displayed are only the groups that I manage

## As a user I can see a group information

**As a** logged-in user  
**I want to** see group’s information  
**So that I** know more about a group

I can see the group information in the sidebar

Given that I am a logged-in user  
And I am on the users workspace  
When I select a group  
Then I should see the sidebar opening on the right hand side  
And I should see a group information section  
And I should see the created date  
And I should see the modified date  
And I should see the latest user who modified the group  
And I should see the number of members  
And I should see the number of passwords

## 2. As a user I can see which groups a user is a member of

**As a** logged-in user  
**I want to** see which groups a user is a member of  
**So that I** understand where he belongs

2.1: I can see the list of groups a user is a member of in the sidebar

Given that I am a logged-in user  
And I am on the users workspace  
Then I should see the list of users  
When I select a user  
Then I should see the sidebar opening on the right hand side  
And I should see a group section in the sidebar  
And I should see the list of groups the user belongs to in the group section

### 3. As an admin I can see which groups a user is a member of

**As a** admin user  
**I want to** see which groups a user is a member of  
**So that I** understand where he belongs

3.1: same as scenario described for 2.1

3.2: I can see the list of groups a user is a member of in the user edit dialog

Given that I am logged in as an admin user  
And I am on the users workspace  
Then I should see the list of all users  
When I select a given user  
And I click on edit  
Then I should see the edit user dialog  
And I should see a “groups” tab  
When I click on the “groups” tab  
Then I should see the list of groups the user belongs to  
And I should see that next to each group there is a select list mentioning the role of the user for the given group

### 4. As a user I can see which users are part of a given group

**As a** logged-in user  
**I want to** see which users are part of a given group  
**So that I** understand who can access the passwords shared with the group

4.1: I can see the list of users that are part of a given group in the sidebar by using the group filter

Given that I am a logged-in user  
And I am on the users workspace  
When I click on a group name  
Then I should see that the sidebar contains a member section  
And I should see that the members sections contains the list of users that are members of this group  
And I should see that below each user I can see his membership type

4.2: I can see the list users that are part of the group in the users grid by using the group filter

Given that I am a logged-in user

And I am on the users workspace  
When I click on a group name  
Then I should see that the given group is selected  
And I should see that the list of users display only the users that are part of this group

## 5. As a group manager I can see which users are part of a given group

**As a group manager**  
**I want to see which users are part of a given group**  
**So that I understand who can access the passwords shared with the group**

5.1: Same a scenario described for 4.1

5.2: I can see the list users that are part of the group in the edit group dialog, for the groups I manage

Given that I am logged in as GM  
And I am on the users workspace  
When I click on edit  
Then I should see the edit group dialog  
And I should see the list of users that are members of a given group

## 6. As an admin I can see which users are part of a given group

**As an admin**  
**I want to see which users are part of a given group**  
**So that I understand who can access the passwords shared with the group**

6.1: Same as scenario described for 4.1

6.2: I can see the list users that are part of the group in the edit group dialog

Given that I am logged in as an administrator  
And I am on the users workspace  
When I edit a group  
Then I should see the edit group dialog  
And I should see the list of users that are members of a given group

## 7. As a user I can see the groups I am a member of

**As a logged in user**  
**I want to see which groups I belong to**

**So that I understand what I belong to**

7.1: I can see the groups I am a member of in the groups section of the users workspace

Same as 1.2

7.2: I can see my own groups in my profile

Given that I am a logged-in user

And I am on my profile

Then I should see a groups section

And I should see the list of groups I belong to in the groups section

**8. As a user I shouldn't be able to create a group**

**As a logged in user**

**I shouldn't be able to create a group**

**So that I I don't do operations that I am not supposed to**

8.1: As a user I shouldn't be able to create a group from the users workspace

Given that I am a logged in user

And I am on the users workspace

When I observe the users workspace

Then I shouldn't see a "new" button in the top left hand side

**9. As a group manager I shouldn't be able to create a group**

**As a logged in group manager**

**I shouldn't be able to create a group**

**So that I I don't do operations that I am not supposed to**

9.1: As a group manager I shouldn't be able to create a group from the users workspace

Given that I am a logged in group manager

And I am on the users workspace

When I observe the users workspace

Then I shouldn't see a "new" button in the top left hand side

**10. As an admin I can create a group**

**As an admin**

**I want to create a group**

**So that I can share passwords with this group instead of individual users**

## 10.1: I can create a group using the new button in the users workspace

Given that I am logged in as administrator  
And I am on the users workspace  
When I click on “Add” button  
Then I should see the option “Add group”  
When I click on “Add group”  
Then I should see a “add group” dialog  
And I should see a group name field  
And I should see a group members section  
And I should see a messages in the group members section saying “The group is empty, please add a group manager”  
And I should see a “Add people” section  
And I should see a text input field in the add people section  
And I should see the security token displayed in the text input field  
When I enter “test group” for group name  
And I start typing “ada” in group manager field  
Then I should see a drop down list with the user ada listed in it  
When I select ada in the list  
Then I should see the user ada listed in the group members  
And I should see that ada’s group role is “group manager”  
When I click save  
Then I should see that the dialog has disappeared  
And I should see a confirmation message saying that the group was created successfully  
And I should see that the new group is listed among the groups list below the filters

## 10.2: I should see an error if I try to create a group without a group name

Given that I am logged in as administrator  
And I am on the users workspace  
When I click on “Add” button  
Then I should see the option “Add group”  
When I click on “Add group”  
Then I should see a “add group” dialog  
When I start typing a user name in the “add user” field  
And I select a user in the suggestion list  
Then I should see this user added as a group administrator in the members list  
When I click on “save” without entering any data for group title  
Then I should see an error message below the field “group name”

## 10.3 I should see an error if I try to create a group without a group manager

Given that I am logged in as administrator  
And I am on the users workspace  
When I click on “Add” button  
Then I should see the option “Group name”  
When I enter “aaa” for “Group name”  
When I click on “save” without adding any group members  
And I should see an error message below the field “add people”

## 10.4: I should see that the first user added to a group is automatically set as a group manager, and the second one as a group member

Given that I am logged in as administrator  
And I am on the users workspace  
When I click on “Add” button  
Then I should see the option “Add group”  
When I click on “Add group”  
Then I should see a “add group” dialog  
And I should see a group name field  
And I should see a group members section  
And I should see a messages in the group members section saying “The group is empty, please add a group manager”  
And I should see a “Add people” section  
And I should see a text input field in the add people section  
And I should see the security token displayed in the text input field  
When I enter “test group” for group name  
And I start typing “ada” in add people field  
Then I should see a drop down list with the user ada listed in it  
When I click on ada in the list  
Then I should see the user ada listed in the group members  
And I should see that the newly added group member has the “group manager” role.  
When I start typing “kathleen” in the add people field  
Then I should see a drop down list with the user ada listed in it  
When I click on ada in the list  
Then I should see the user kathleen listed in the group members  
And I should see that the newly added group member has the “group member” role.  
When I click save  
Then I should see that the dialog has disappeared  
And I should see a confirmation message saying that the group was created successfully  
And I should see that the new group is listed among the groups list below the filters

## 11. As a user I shouldn't be able to delete a group

**As a** logged in user  
**I shouldn't** be able to create a group  
**So that I** I don't do operations that I am not supposed to

11.1 As a user I shouldn't be able to delete a group in the users workspace

Given that I am a logged in user  
And I am on the users workspace  
When I observe the users workspace  
Then I should see a list of groups on the left hand side  
And I should see that there is no dropdown button next to the groups name  
When I select a group  
Then I should see that the delete button in the top toolbar is deactivated

## 12. As a group manager I shouldn't be able to delete a group

**As a** logged in group manager  
**I shouldn't** be able to create a group  
**So that I** I don't do operations that I am not supposed to

12.1 As a group manager I shouldn't be able to delete a group that I don't manage in the users workspace

Given that I am a logged in group manager  
And I am on the users workspace  
When I observe the users workspace  
Then I should see a list of groups on the left hand side  
And I should see that there is no dropdown button next to the groups that I don't manage  
When I select a group that I don't manage  
Then I should see that the delete button in the top toolbar is disabled.

12.1 As a group manager I shouldn't be able to delete a group that I manage in the users workspace

Given that I am a logged in group manager  
And I am on the users workspace  
When I observe the users workspace  
Then I should see a list of groups on the left hand side  
And I should see that there is a dropdown button next to the groups that I manage

- When I select a group that I manage
- Then I should see that the delete button in the top toolbar is deactivated
- When I click on the dropdown button next to a group that I manage
- Then I should see that the “delete” action in the contextual menu is disabled.

## 13. As an admin I can delete a group

- As an admin**
- I want to delete a group**
- So that no passwords can be shared with this group anymore**

### 13.1: I can delete a group with the delete button

- Given that I am logged in as administrator
- And I am on the users workspace
- Then I should see the list of groups in the left hand sidebar, below the filters
- When I select a group
- And I press the delete button
- Then I should see a confirmation dialog asking me if I really want to delete the group.
- When I press “yes” in the dialog
- Then I should see that the dialog disappears
- And I should see a confirmation message saying that the group has been deleted
- And I should see that the group has been removed from the groups list

### 13.2: I can delete a group with the delete option of the contextual menu

- Given that I am logged in as administrator
- And I am on the users workspace
- Then I should see the list of groups in the left hand sidebar, below the filters
- When I click on the contextual menu icon of a group
- Then I should see a contextual menu with a delete option
- When I click on “delete” in the contextual menu
- Then I should see a confirmation dialog asking me if I really want to delete the group.
- When I press “yes” in the dialog
- Then I should see that the dialog disappears
- And I should see a confirmation message saying that the group has been deleted
- And I should see that the group has been removed from the groups list

## 14. As a user I shouldn't be able to edit a group

- As a logged in user**
- I shouldn't be able to edit a group**

**So that I**      **I don't do operations that I am not supposed to**

14.1 As a user I shouldn't be able to edit a group in the users workspace

Given that    I am a logged in user  
And            I am on the users workspace  
When          I select a group  
Then          I should see that there is no dropdown button next to the groups

**15. As a group manager I can edit a group**

**As a**            **group manager**  
**I want to**      **edit a group**  
**So that**        **I can modify group information**

15.1: I can edit the group using the edit button

Given that    I am logged in as a group manager  
And            I am on the users workspace  
When          I click on a group on the left  
Then          I should see that the group is selected  
And            I should see that the right sidebar is opened with the group name as title  
And            I should see a "edit" button activated in the top toolbar  
When          I press the "Edit" button  
Then          I should see the Edit group dialog  
And            I should see that the title is "Edit Group"  
And            I should see that there is a section "Group name"  
And            I should see that there is a section "Group members"  
And            I should see that the list of group members is displayed in the "Group members" section  
And            I should see that next to each group member there is a select list containing the membership role for each user.  
And            I should see that next to each group member there is a "remove membership" button in the form of a cross  
And            I should see that there is a "Add more people" section  
And            I should see that there is a text input field containing "enter one name or email"  
And            I should see that the input text field contains a security token

15.2: I can edit the group using the contextual menu

Given that    I am logged in as a group manager  
And            I am on the users workspace  
When          I click on the contextual menu button of a group on the right

Then I should see the group contextual menu  
And I should see the “Edit group” option  
When I click on “Edit group”  
Then I should see the Edit group dialog

### 15.3: I can edit the group using the sidebar edit button

Given that I am logged in as a group manager  
And I am on the users workspace  
When I click on a group on the left  
Then I should see that the group is selected  
And I should see that the right sidebar is opened with the group name as title  
And I should see a “edit” button next to the Information section  
When I press the “Edit” button  
Then I should see the Edit group dialog

### 15.4: A group manager shouldn't be able to edit the group name

Given that I am logged in as a group manager  
And I am editing a group that I manage  
When I observe the content of the edit group dialog  
Then I should see a “group name” field containing the current group name.  
And I should see that the group name field is disabled.

### 15.5 As a group manager I shouldn't be able to edit a group that I don't manage

Given that I am logged in as a group manager  
And I am on the users workspace  
When I observe the list of groups on the left  
Then I should see a dropdown button on the right of the groups that I manage  
And I shouldn't see a dropdown button on the right of the groups that I don't manage  
When I click on a group that I don't manage  
Then I should see that the group is marked as selected  
And I should see that the right sidebar is opened and contains the selected group information  
And I shouldn't see the edit shortcuts button in the sidebar  
And I should see that the edit button is deactivated in the top toolbar

## 16. As an admin I can edit a group

**As an admin**  
**I want to edit a group**  
**So that it corresponds better to the group needs**

16.1: I can edit the group using the contextual menu

[Same as 15.1](#)

16.2: I can edit the group using the edit button

[Same as 15.2](#)

16.3: I can edit the group using the sidebar edit button

[Same as 15.3](#)

16.4: I can edit the group name

Given that	I am logged in as administrator
And	I am editing a group
When	I observe the content of the edit group dialog
Then	I should see a “group name” field containing the current group name.
When	I modify the group name
And	I click on “save”
Then	I should see that the dialog disappears
And	I should see a confirmation message saying that the group has been edited
And	I should see that the group name has been changed in the groups list

## 17. As an administrator I can edit the membership roles

17.1: I can edit the existing group members and promote a group member to group manager

Given that	I am logged in as administrator
And	I am on the users workspace
And	I edit a group
Then	I should see the list of users that are part of this group in the edit group dialog
And	I should see next to each user the role that he has in the group in a select box
When	I change the role of one simple group member to group manager
And	I click on save
Then	I should see a confirmation message saying that the group was edited
And	A notification should be sent to the user that was promoted group manager
When	I log in as the user who was promoted group manager
And	I go to the users workspace
Then	I should be able to add users to the new group that I manage

17.2: I cannot save a group that doesn't have at least one group manager

Given that	I am logged in as administrator
And	I am on the users workspace

And I edit a group  
Then I should see the list of users that are part of this group in the edit group dialog.  
And I should see next to each user the role that he has in the group in a select box  
When I change the role of all group managers to group member  
And I click on save  
Then I should see an error message in the dialog saying that there should be at least one group manager

## 18. As a group manager I can edit the membership roles

### 18.1: I can edit the existing group members and promote a group member to group manager

Given that I am logged in as a group manager  
And I am on the users workspace  
When I'm editing a group  
Then I should see the list of users that are part of this group in the edit group dialog  
And I should see next to each user the role that he has in the group in a select box  
When I change the role of one simple group member to group manager  
Then I should see the member marked as going to be updated next to it  
When I click on save  
Then I should see a confirmation message saying that the group was edited  
And A notification should be sent to the user that was promoted group manager  
When I log in as the user who was promoted group manager  
And I go to the users workspace  
Then I should be able to add users to the new group that I manage

### 18.2: I cannot change the latest group manager role

Given that I am logged in as group manager  
And I am on the users workspace  
And I edit a group  
When I change all the members roles to member (except one admin)  
Then I should not be able to change the role of this user

## 19. As a group manager I can add a user to a group

**As a group manager**  
**I want to add a user to a group**  
**So that he can access the passwords shared with the group**

## 19.1: As a group manager I can add a user to a group using the edit group dialog

- Given that I am logged in as a group manager
- And I am on the users workspace
- And I edit a group
- When I observe the content of the edit group dialog
- Then I should see that the group name field is disabled
- And I should see a group members section
- And I should see the list of members for this group in the group members section
- And I should see a “Add people” section below the list of members
- And I should see a text input field in the “Add people” section
- When I start typing the name / email of the user I want to add in the add user field
- Then I should see a list of suggestions including the given user
- When I click on the user in the list of suggestions
- Then I should see that the user is added in the list of group members
- And I should see that the list of users automatically scrolled down so I can see the last user that was added
- And I should see that his group role is “group member”
- And I should see a warning message saying that the changes will be applied after clicking on save
- When I press the save button
- Then I should see that the dialog disappears
- And I should see a confirmation message saying that the group members have been edited
- When I log in as the user that was newly added to the group
- And I go to the users workspace
- And I filter the list of users with the group
- Then I should see me in the list

**TODO: scenario where a wrong name / email is typed**

**TODO: scenario where an existing user name / email is typed**

**TODO: scenario where changes are not saved**

## 19.2: As a group manager I can add a user to a group using drag and drop

- Given that I am logged in as a group manager
- And I am on the users workspace
- When I drag and drop a user into a group
- Then I should see a confirmation message
- When I edit the given group
- Then I should see that the given user is part of the members

And I should see that his group role is “group member”  
When I log in as the user that was newly added to the group  
And I go to the profile workspace  
Then I should see that the newly added group reflects in the “my group” section

TODO: scenario where the user is already part of the group

TODO: scenario where the group is not managed by the logged in group manager

## 20. As an admin I can remove a user from a group

### 20.1: As an admin I can remove a user from a group using the edit group dialog

Given that I am logged in as an admin  
And I am editing a group  
When I observe the content of the edit group dialog  
And I should see that next to each group member there is a cross icon to remove the membership  
When I click on the cross next to the user I want to remove  
Then I should see that the user disappears from the list of group members  
And I should see a warning message saying that the changes will be applied only after save  
When I press the “save” button  
Then I should see that the dialog disappears  
And I should see a confirmation message  
When I log in as the user that was removed from the group  
And I go to the users workspace  
And I filter by the group the user has been removed  
Then I should see that the user is not in the group anymore

### 20.2: As an admin I can remove a user from a group using the edit user dialog

Given that I am logged in as an admin  
And I am editing a user  
When I observe the content of the edit user dialog  
Then I should see a “group” tab  
And I should see the list of groups the user belongs to with next to them the role of the user for each group  
And I should see that next to each group there is a cross icon to remove the membership  
When I click on the cross next to the group membership I want to remove  
Then I should see that the group membership disappears from the list of group memberships

And I should see a warning message saying that the changes will be applied only  
after save  
When I press the “save” button  
Then I should see that the dialog disappears  
And I should see a confirmation message  
And I should see that the group is not listed anymore in the groups list in the sidebar  
When I log in as the user that was removed from the group  
And I go to the profile workspace  
Then I should see that the removed group doesn’t appear in the “my group” section

20.3: As an admin using the group edit dialog, I cannot remove the last group manager of a group and save

Given that I am logged in as administrator  
And I am on the users workspace  
And I edit a group  
Then I should see the list of users that are part of this group in the edit group dialog.  
And I should see next to each user a delete button  
When I remove all the group managers from the group  
And I click on save  
Then I should see an error message in the dialog saying that there should be at least one group manager

20.4: As an admin using the user edit dialog, I cannot remove the last group manager of a group and save

## 21. As a group manager I can remove a user from a group

**As a group manager**  
**I want to remove a user from a group**  
**So that he cannot access anymore the passwords shared with the group**

21.1: As a group manager I can remove a user from a group using the edit group dialog

[Same as 20.1](#)

N.2: As a group manager I cannot remove the last group manager of a group and save

[Same as 20.3](#)

## 22. As an admin I should be able to request a user to be added to a group

**As a** administrator  
**I want to** request a user to be added to a group  
**So that** he is added to the group by the group manager

### 22.1 As an admin i can request a user to be added to a group using the edit group dialog

Given that I am logged in as an administrator  
And I am on the users workspace  
And I edit a group  
When I start typing the name / email of the user I want to add in the add user field  
Then I should see a list of suggestions including the given user  
When I click on the user in the list of suggestions  
Then I should see that the user is added in the list of group members  
And I should see the mention "Send request" below his name  
And I should see that the list of users automatically scrolled down so I can see the last user that was added  
And I should see that his group role is "group member"  
And I should see a warning message saying that the changes will be applied after clicking on save  
When I press the save button  
Then I should see that the dialog disappears  
And I should see a confirmation message saying that the group members have been edited  
When I edit the same group  
Then I shouldn't see the name of the user who has been requested to be added in the list of members.

### 22.2 As an admin i can request a user to be added to a group using the edit user dialog

Given that I am logged in as an administrator  
And I am on the users workspace  
And I edit a user and go to the groups tab  
When I start typing the name / email of the group I want to add the user to  
Then I should see a list of suggestions including the given group  
When I click on the group in the list of suggestions  
Then I should see that the group is added in the list of group memberships  
And I should see the mention "Send request" below the group name  
And I should see that the list of groups automatically scrolled down so I can see the last group that was added  
And I should see that the membership role is "group member"

And I should see a warning message saying that the changes will be applied after clicking on save  
When I press the save button  
Then I should see that the dialog disappears  
And I should see a confirmation message saying that the group members have been edited  
When I edit the same user and go to the groups tab  
Then I shouldn't see the name of the group the user was added to

### 23. As a logged in user I should be able to request to be added to a group

### 24. As a user I can share a password with a group

**As a** logged in user  
**I want to** share a password with a group  
**So that** I don't need to select users individually

#### 24.1: As a user I can share a password with a group

Given that I am logged in user  
And I am on the passwords workspace  
When I select a password  
And I press the share button  
Then I should see the "share password" dialog  
And I should see a "add user or group" section  
When I start typing the name of a group  
Then I should see a list of suggestions  
And I should see that the list of suggestions start with the groups I am a member of  
And I should see the group I am looking for among the suggestions  
When I click on the group in the list of suggestions  
Then I should see that the group is added in the list of users / groups  
And I should see a warning message informing that the modifications will be applied after saving  
When I press the "save" button  
Then I should not see the dialog anymore  
And I should see a confirmation message  
And I should see the new group added in the sidebar in the "shared with" section  
When I log in as a member of the group the password has been shared with  
Then I should see that I can access the password in the password workspace

## 25. As a user I can unshare a password with a group

**As a** logged in user  
**I want to** unshare a password with a group  
**So that** the group members cannot access it anymore

### 25.1: As a user I can unshare a password with a group

Given that I am logged in user  
And I am on the passwords workspace  
When I select a password  
And I press the share button  
Then I should see the “share password” dialog  
And I should see the list of users and groups the password is shared with  
And I should see the group I want to unshare with in the list  
And I should see a cross icon representing a removal button  
When I click on the cross icon  
Then I should see that the group is removed from the list  
And I should see a warning message informing that the modifications will be applied after saving  
When I press the “save” button  
Then I should not see the dialog anymore  
And I should see a confirmation message  
And I should see that the removed group has also been removed from the sidebar in the “shared with” section  
When I log in as a member of the group the password has been unshared with  
Then I should see that I cannot access the password in the password workspace

## 26. As a user I can see which group a password is shared with

### 26.1: As a user I can see which groups a password is shared with from the sidebar

Given that I am logged in user  
And I am on the passwords workspace  
When I select a password  
Then I should see the information sidebar opening  
And I should see a user the password is shared with  
And I should see a group the password is shared with

### 26.2: As a user I can see which users are part of a group a password is shared with

Given that I am logged in user

And I am on the passwords workspace  
When I select a password  
Then I should see the information sidebar opening  
And I should see that it contains a “shared with” section  
And I should see the name of the groups it is shared with  
When I click on a group  
Then I should see that I am redirected to the users workspace  
And I should see that the group I clicked on is selected among the group filters on the left  
And I should see the group sidebar opened  
And I should see the list of the group members in the members section of the sidebar

**27. As a user I should receive an email notification when a password is shared with a group I am a member of**

**As a group member**  
**I want to receive an email notification when a password is shared with a group I am a member of**  
**So that I am alerted that I have access to a new password**

27.1: I should receive an email notification when a password is shared with a group I am a member of

Given that I am a member of a group  
And a new password has been shared with the group  
When I check my emails  
Then I should see an email notification saying that a new password has been shared with the given group

**28. As a group manager I should receive a notification when an admin has requested a user to be added to a group I manage.**

**As a group manager**  
**I want to receive an email notification when a an admin has requested a user to be added to a group I manage**  
**So that I am alerted that I have to add the user to the group**

28.1: I should receive an email notification when an admin has requested a user to be added to a group I manage

Given that I am a group manager  
And a request has been made by an admin to add a user to a group I manage  
When I check my emails

Then I should see an email notification saying that an admin has requested to add the given user to the group I manage

**29. As a group manager I should receive a notification when a user request to be added to a group I manage.**

**As a group manager**  
**I want to receive an email notification when a user has requested to be added to a group I manage**  
**So that I am alerted that I should consider adding this user to the group**

29.1: I should receive an email notification when a user has requested to be added to a group I manage

Given that I am a group manager  
And a request has been made by a user to be added to a group I manage  
When I check my emails  
Then I should see an email notification saying that a user has requested to be added to the group I manage

**30. As a user I should receive a notification when I am added to a group**

**As a user**  
**I want to receive an email notification when I am added to a group**  
**So that I am alerted that I am part of a new group**

30.1: I should receive an email notification when I am added to a group

Given that I am a user  
And I have been added to a new group  
When I check my emails  
Then I should see an email notification saying that I have been added to a new group  
And I should see in the email the role that has been assigned to me for this group

**31. As a group member I should receive a notification when my role in the group has changed**

**As a group manager**  
**I want to receive an email notification when my role in a group that I am a member of has changed**  
**So that I am alerted that my role has changed**

31.1: I should receive an email notification when my role in a group that I am a member of has changed

Given that I am a group member  
And my role in a group that I am a member of has been modified  
When I check my emails  
Then I should see an email notification saying that my role has been modified in the given group

### **32. As a user I should receive a notification when I am deleted of a group**

**As a user**  
**I want to receive an email notification when I am deleted of a group**  
**So that I am alerted that I have been deleted of this group**

32.1: I should receive an email notification when I am deleted of a group

Given that I am a user  
And I have been deleted of a group  
When I check my emails  
Then I should see an email notification saying that I have been deleted of the given group

### **33. As a group manager I should receive a notification when another group manager adds a user to a group**

**As a group manager**  
**I want to receive an email notification when another group manager adds a user to a group I manage**  
**So that I am alerted that a new user has been added**

33.1: I should receive an email notification when another group manager adds a user to a group I manage

Given that I am a group manager  
And another group manager has added a user to a group I manage  
When I check my emails  
Then I should see an email notification saying that a new user has been added to my group

### **34. As a group manager I should receive a notification when another group manager removed a user from a group**

**As a group manager**

**I want to** receive an email notification when another group manager removed a user from a group that I manage

**So that** I am alerted that a user has been removed

34.1: I should receive an email notification when another group manager removes a user from a group that I manage

Given that I am a group manager

And another group manager has removed a user from a group that I manage

When I check my emails

Then I should see an email notification saying that a user has been removed from my group

**35. As a group manager I should receive a notification when a user who is part of one (or more) groups I manage is deleted.**

**As a** group manager

**I want to** receive an email notification when a user who is part of a group I manage has been deleted

**So that** I am alerted that this user is not in my groups anymore

35.1: I should receive an email notification when a user who is part of the groups I manage has been deleted

Given that I am a group manager

And a user who belongs to a group that I manage has been deleted

When I check my emails

Then I should see an email notification saying that the given user that belongs to my group has been deleted

## Technical specifications

### Sequence diagrams

TODO: high level sequence diagram explaining interaction between the different component, app js, plugin, API and the user.

### API Endpoints

TODO: list all new endpoints.

### Data structure

TODO: Database changes and new data structure related to groups, users, resources and passwords.

### Permission system

TODO: permission system changes and refactoring (drop direct permission mess, old categories system, etc.)