# ACME Requirements Specification: A Case Study Version 6.1 Alvin J. Alexander http://www.devdaily.com Jan. 28, 2004 Copyright DevDaily Interactive (devdaily.com), 2004. All Rights Reserved.

# Revised by Diego Clerissi & Gianna Reggio applying the Disciplined use cases with mockups method

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In this document we show the results of the application of our method DUSM (*Disciplined Use cases with Screen Mockups*) applied to a real case study. Our goal is to make use cases-based requirements specification clearer (i.e. reducing ambiguities, inconsistencies and incompleteness) by adopting a glossary of terms, connecting to use cases steps a number of screen mockups to represent UI interfaces, and following a strict template/description structure. We chose ACME specifications since it is complete and use cases-based, presents a simple domain, and includes some problems that our method could fix (e.g. describing the UI in a textual way only). In the following, we present the use case diagram of our case study and the use cases after DUSM.

# **Use Case Diagram**

All the use case have the "User Goal" level, thus for simplicity we have not reported it in the picture.



## Use case: External User Login

This use case defines the process of logging the External User into the ACME application.

## Notes

- All user types can log in multiple workstations, having multiple ACME Editors open on their desktop (each with a different job)
- The "default" database is populated with a list of default customers
- The first time ACME is launched, Security\_Enabled\* is false

Level userGoal

Priority 1

Frequency frequently

Primary Actor External User

#### Main success scenario

## 1. The External User starts ACME.

2. If Security\_Enabled\* is false, then ACME informs that it has started; the External User is logged as Unknown User in Logged Users\*.

ACME - Main		_ + X
Jobs Add Job Open Job List Jobs Users List Users	ACME has started!	You are logged as Unknown User Become Administrator
Groups	Close	
List Groups		
Databases		
List Databases		
Switch Database		Exit

## Extensions

2a.1. If Security\_Enabled\* is true, then ACME requests to log in.

ACME - Login		-	+	×	
					l
Username	Username				l
Password	Password				
Login	Cancel				

2a.3. The External User enters Username\* and Password\*.

ACME - Login		-	÷	×
Username	User001			
Password	******			
		_		
Login	Cancel			

2a.4. If Username\* and Password\* are valid, then ACME informs the External User that it has started; the External User is added to the Logged Users\*.

ACME - Main		_ + ×
Jobs Add Job		You are logged as User001
Open Job	ACME has started!	
Users	* Security is enabled * You are connected to default database	
List Users	Close	
List Groups		
Databases		
List Databases		
Switch Database		
		Exit

2a.4a.1. If Username\* and Password\* are invalid, then ACME informs that the given data is wrong. The use case fails

ACME - Login	_ + ×
Username	Usre001
Password	******
Wrong user	rname or password
Login	Cancel

## Use case: Administrator Login

Goal This use case allows the Administrator to log into the ACME application.

Level userGoal

Priority 1

Frequency periodically

**Primary Actor** Administrator

Pre-Conditions Security\_Enabled\* is true

#### Main success scenario

- 1. The Administrator starts ACME.
- 2. ACME requests to log in.

ACME - Login		-	÷	×
Username	Username			
Password	Password			
Login	Cancel			

4. The Administrator enters Username\* and Password\*.

5. If Username\* and Password\* are valid, then ACME informs that it has started; the Administrator is added to Logged Users\*.



## Extensions

5a.1. If the Username\* and Password\* are invalid, then ACME informs that the given data is wrong. The use case fails.

ACME - Login	_ + X	×
Username Password	admin ***	
Wrong user	mame or password	
Login	Cancel	

# Use Case: Administrator Add User

Goal This use case describes the process of adding a new user to the ACME system.

Level userGoal

Priority 1

Frequency frequently

Primary Actor Administrator

Pre-Conditions Administrator\_Logged\* is true

Ivialli success scenario	Main	success	scenario
--------------------------	------	---------	----------

ACME - Main	_ + X
Jobs	You are logged as Administrator
Add Job	Disable Security
Open Job	
List Jobs	
Users	
Add User	
List Users	
Groups	
Add Group	
List Groups	
Databases	
List Databases	
Switch Database	Exit

- 1. The Administrator requests to add a new user.
- 2. ACME prompts for the User\_Info\*.

ACME - Add Us	ser						_ + X
Insert the fo	ollow	/ing info on t	he u	Iser			You are logged as Administrator
Username	*	Password	*	Repeat password	*	Select a group *	
Name		Middle Init.		Surname		Group2 Group3	
		Add User		Clear			Back

3. The Administrator enters the User\_Info\* and submits the given data.

Insert the t	follow	ing info on	the u	ser			
User002	*	abc123	*	abc123	*	Select a group *	
						Group1 🔺	
						Group2	
John				Smith		Groups +	

4. If User\_Info<sup>\*</sup> is complete, Username<sup>\*</sup> and Password<sup>\*</sup> are valid, and Username<sup>\*</sup> is not used in Users<sup>\*</sup>, then ACME confirms the creation; a new user characterized by User\_Info<sup>\*</sup> is added to Users<sup>\*</sup>.

ACME - Add User		-	+	×
Insert the follo	ACME - Success!	ninistr	ator	
User002 *	User002 has been added to the System and enrolled to Group1!			
John	Ok			
	Add User Clear E	ack		

#### Extensions

4a.1. If User\_Info\* is incomplete, then ACME informs of which required fields are missing. The use case fails.

ACME - Add U	ser							_ + X
Insert the f	ollow	ving info on t	he u	ser			You ar	e logged as Administrator
User002	*	I	*	abc123	*	Select a group * Group1 Group2	×	Incomplete information. The password is missing!
John				Smith		Group3		
		Add User		Clear				Back

4b.1. If Username\* is already in use, then ACME informs that he must choose a different name. The use case fails.

ACME - Add U Insert the f	ser follow	ving info or	i the u	ser			You ar	re logged as Administrator
User002 John	*	abc123	*	abc123 Smith	*	Select a group * Group1 ^ Group2 E Group3 ~	8	Username is already in use, Choose a different one!
		Add User		Clear				Back

4c.1. If Username\* is invalid, then ACME informs that the given data is wrong and displays the valid naming criteria. The use case fails.

ACME -	Edit Use	er							_ + X
Inse	rt the fol	llowi	ng info on tl	ne us	ser			You are	logged as Administrator
Use	er#2	*	ABC123	*	ABC123	*	Select a group *		
							Group1	8	Username is not valid. It must be up to 20 characters, containing
Joh	n			]	Black		Group3		only letters, numbers, _, -, and blank spaces.
		S	ave Changes		Clear				Back

4d.1. If Password\* is invalid, then ACME informs that the given data is wrong, and valid password criteria is displayed. The use case fails.

4e.1. If the two passwords are not the same, then ACME informs that the given data is wrong. The use case fails.

User001	*	ABC123	*	123ABC	*	Select a group * Group1 ^ Group2 =	8	Password and repeate password are not the
John				Black		Group3		same!

## **Post-Conditions**

A new user characterized by User\_Info\* is added to Users\*

## **Use Case: Administrator List Users**

Goal This use case allows to list the users on the ACME system

Level userGoal

**Priority** 3

Frequency periodically

Primary Actor Administrator

Pre-Conditions Administrator\_Logged\* is true

ACME - Main	_ + X
Jobs Add Job	You are logged as Administrator
Open Job	Disable Security
List Jobs	
Add User	
List Users	
Add Group	
List Groups	
List Databases	
Switch Database	Exit

1. The Administrator requests to list the current users.

2. ACME displays, for every user in Users\*: Username\*, group name, and the options to edit, view and delete users.

Users currently r	egistered	You are logged as Administrator
User	Group	
Administrator UNKNOW USER	Administrator UNKNOW USER	
User001 User002	Group1 Group1	Edit View Delete
User003	Group3	Edit View Delete
User004	Group4	Edit   View   Delete     Edit   View   Delete
		Back

Post-Conditions A list of users is displayed.

## **Use Case: External User List Users**

Goal This use case allow an external user to list the registered users.

Level userGoal

**Priority** 3

Frequency periodically

Primary Actor External User

Pre-Conditions The External User belongs to Logged Users\*

## Main success scenario

1. The External User requests to list the users.

2. ACME displays, for every user in Users\*, Username\*, group name, and the options to edit the personal data.



Post-Conditions A list of users is displayed.

# Use Case: Administrator Edit User

Goal This use case allows the administrator to edit a user.

Level userGoal

**Priority** 4

Frequency periodically

Primary Actor Administrator

Pre-Conditions Administrator\_Logged\* is true and a list of users is displayed.

## Main success scenario

CME - Users List		_ + ×
Users currently r	registered	You are logged as Administrator
User	Group	
Administrator UNKNOW USER User001 User002 User003 User004	Administrator UNKNOW USER Group1 Group1 Group3 Group4	EditViewDeleteEditViewDeleteEditViewDeleteEditViewDelete
		Back

1. The Administrator requests to edit a user.

## 2. ACME displays the User\_Info\* of the selected user.

AC	ME - Edit U	ser						_ + X
	You are cu	urrent	ly editing U	ser00	)1			You are logged as Administrator
	User001	*	abc123	*	abc123	*	Select a group *	
							Group1	
	John				Smith		Group2 Group3	
			Save Changes	3	Clear			Back

3. The Administrator enters all desired data and confirms the changes.

ACME - Edit User		_ + X
You are currently editing User00	1	You are logged as Administrator
User001 * ABC123 *	ABC123 * Select a group * Group1  Group2 Group3	
Save Changes	Clear	Back

4. If User\_Info\* is complete, Username\* and Password\* are valid, Username\* is not used in Users\*, and the two passwords are the same, then ACME displays the users list; User\_Info\* are updated with the new data.

ACME - Users List			_ + X
Users currently re	gistered	ACME - Success!	You are logged as Administrator
User	Group	Liper001 has been successfully undeted.	
Administrator UNKNOW USER User001 User002 User004	Administ UNKNOV Group1 Group1 Group4	Ok Ok Edit Edit	View     Delete       View     Delete       View     Delete       View     Delete       Back

## Extensions

4a.1. If User\_Info\* is incomplete, then ACME informs of which required fields are missing. The use case fails.

AC	ME - Edit U	Jser								-	+	×
	You are cu	urrent	ly editing L	Jser00	)1			You are	logged as Adm	inisti	ator	r
	User001 John	×	1	*	ABC123 Black	*	Select a group * Group1 A Group2 E Group3 T	8	Incomplete inf The password i	ormo is mi:	tion ssing	ı. g!
			Save Change	S	Clear				В	ack		

4b.1. If the Username\* is already in use in Users\*, then ACME informs that he must choose a different name. The use case fails.

ACME - Edit U	ser ırrent	ly editing U	ser00	)1			You are	logged as Administrator
User002 John	*	ABC123	*	ABC123 Black	*	Select a group * Group1 A Group2 E Group3 V	8	Username is already in use. Choose a different one!
		Save Changes	5	Clear				Back

4c.1. If the Username\* is invalid, then ACME informs that the given data is wrong, and displays the valid naming criteria. The use case fails.

ACME - Edi	t User							_ + X
You are	current	ly editing U	ser0(	)1			You are	logged as Administrator
User#2	*	ABC123	*	ABC123	*	Select a group *		
						Group1	X	Username is not valid. It
			_		_	Group2 = Group3		characters, containing
John				Black		· · ·		only letters, numbers, _, -, and blank spaces,
		Save Change	5	Clear				Back
	_							

4d.1. If the Password\* is invalid, then ACME informs that the given data is wrong, and displays the valid password criteria. The use case fails.

4e.1. If the two passwords are not the same, then ACME informs that the given data is wrong. The use case fails

You are cu	ser urrent	ly editing U	ser0(	01			You are logged as Administrator
User001 John	*	ABC123	*	123ABC Black	*	Select a group * Group1 A Group2 E Group3	Password and repeated password are not the same!
	<u></u>	Save Changes		Clear			Back

## Use Case: External User Edit Personal Info

Actor This use case allows an external user self-editing hers/his information

Level userGoal

**Priority** 4

Frequency periodically

Primary Actor External User

Pre-Conditions The External User belongs to Logged Users\*, and a list of users is displayed

## Main success scenario

ACME - Users List			- 4	×
Users currently r	registered	You are logged as	User00	)1
User	Group			
Administrator UNKNOW USER User001 User002 User003 User004	Administrator UNKNOW USER Group1 Group1 Group3 Group4	Edit		
			Back	

- 1. The External User requests to edit his personal info.
- 2. ACME displays the External User User\_Info\*.

ACME - Edit Personal Info			_ +	×
Personal info User001	Change Password Group1 Group2	You are logged as	User0(	)1
John	Black			
Save Changes	Clear	В	ack	]

3. The External User requests to change his Password\*.

ACME - Edit Personal Info	ACME - Edit Password 💦 – 🔸 🗶	_ + X
Personal info	old password	You are logged as User001
User001 *******	new password	
John	repeat new password	•
Sava Change	Ok Cancel	
Save Changes		Back

4. ACME prompts the External User for his old and new Password\*.

5. The External User enters old and new Password\* and confirms the changes.

6. If the old Password\* is correct and the two Password\* are identical and valid, then ACME displays the user lists; the User\_Info\* in Users\* are updated.

## Extensions

6a.1. If the old Password\* is wrong, then ACME informs that the given data is wrong. The use case fails.

ACME - Edit Personal Info	ACME - Edit Password	_ + ×
Personal info	****	You are logged as User001
User001 *******	****	
John	*****	-
	Old password is wrong!	
Save Changes	Ok Cancel	Back

6b.1 If new and repeated new Password\* are not equal, then ACME informs that the given data is wrong. The use case fails.

ACME - Edit Personal Info	ACME - Edit Password - + ×	_ + X
Personal info	****	You are logged as User001
User001 ******	****	
John	***	
	New and repeated new passwords are not the same!	
Save Changes	Ok Cancel	Back

6c.1 If the new Password\* is invalid, then ACME informs that the given data is wrong, and valid Password\* criteria is displayed. The use case fails.

## **Use Case: Administrator Delete User**

Goal This use case allows the administrator to delete some users from ACME.

#### Notes

Note that in this use case clearing the locks is an "all or nothing" proposition. Selectively clearing job locks is not available from this point in the application

Level userGoal

**Priority** 4

Frequency exceptionally

Primary Actor Administrator

Pre-Conditions Administrator\_Logged\* is true, and a list of users is displayed

## Main success scenario

CME - Users List		_ + X
Users currently r	registered	You are logged as Administrator
User	Group	
Administrator UNKNOW USER User001 User002 User003 User004	Administrator UNKNOW USER Group1 Group1 Group3 Group4	EditViewDeleteEditViewDeleteEditViewDeleteEditViewDeleteBack

1. The Administrator requests to delete a user.

2. If the selected user has any job locks in Jobs\*, then ACME informs the Administrator showing the list of the jobs locked by such user and asks if he wants to clear all that job locks.

ACME - Users	s List	_ + X
Lleare curr	ACME - Delete User	You are logged as Administrator
User	The selected user (User003) has the following jobs locked: - Job1	
UNKNOW U User001	- Job2 Would you like to clear those jobs locks?	
User002 User003 User004	Yes	idit View Delete
		dit View Delete Edit View Delete
		Back

3. The Administrator requests to clear all job locks.

Users currently re	egist <mark>e ACME</mark>	E - Delete User 🗧 🔸 🗴		You are logged as Administrator
User Administrator	Ģ	You are going to delete User003. Are you sure?		
UNKNOW USER User001 User002	U G G	Yes No	View	Delete
User003 User004	G <mark>roup3</mark> Group4	Edit	View View	Delete Delete
		Edit	View	Delete Back

5. The Administrator confirms the intention to delete the selected user.

6. ACME confirms the deletion of the user; the user is deleted from Users\*; any lock of the user is removed in Jobs\*, and the jobs owned by the user in Jobs\* are now owned by Unknown User.

ACME - Users List			_ + X
Users currently re	egistered	ACME - Success!	You are logged as Administrator
User	Group	Line 202 has been successfully serviced from the successful	
Administrator	Administ	Oseroos has been successiony removed from the system:	
UNKNOW USER User001	Group1	Ok	
User002	Group1		Delete
User004	Group4		Delete
		Edit View	Delete
		Edit View	Delete
			Back

## Extensions

- 2a.1. If the selected user has no job locks in Jobs\*, then the use case continues at step 4.
- 3a.1. The Administrator refuses to clear all the locks. The use continues at step 4.
- 5a.1. The Administrator aborts the operation. The use case fails.

Post-Conditions Any job created by a deleted user is now owned by Unknown User.

# Use Case: Administrator Add Group

Goal This use case allows the administrator to add a new group to the ACME system.

Notes Only the Administrator can CRUD group information

Level userGoal

Priority 1

Frequency frequently

Primary Actor Administrator

Pre-Conditions Administrator\_Logged\* is true

## Main success scenario

ACME - Main	_ + X
Jobs	You are logged as Administrator
Add Job	Disable Security
Open Job	Disable Security
List Jobs	
Users	
Add User	
List Users	
Groups	
Add Group	
List Groups	
Databases	
List Databases	
Switch Database	Exit

1. The Administrator requests to add a new group to ACME.

## 2. ACME prompts the Administrator for the Group Info\*.

ACME - Add grou	p _ + ×
Insert the followir	ng group's info:
Group name	group name *
Functional areas	Access Level
functional area	1
functional area 2	2 ≡ ⊚ Hidden ⊘ View ⊘ Edit
functional area	₹ •
	Add Group Clear Back

3. The Administrator enters the required information and confirms

ACME - Add group		_ + X
Insert the following	g group's info:	You are logged as Administrator
Group name	Group001 *	
Functional areas functional area 1 functional area 2 functional area 3	Access Level	
A	dd Group Clear	Back

4. If the Group Name<sup>\*</sup> is valid, it is not already in use in Groups<sup>\*</sup>, and the Access Level<sup>\*</sup> for all Functional Areas<sup>\*</sup> is selected, then ACME confirms the addition; a group characterized by the given information is added to Groups<sup>\*</sup>.

ACME - Add group	C		_ + X
Insert the followin	ıg group's info:	You ar ACME - Success!	e logged as Administrator
Group name	Group001		
		Group001 has been added to the system!	
Functional areas		Ok	
functional area 1	<u> </u>		
functional area 2	2 🗉 💿 Hi	dden 🔘 View 🔘 Edit	
functional area 3	₹		
_	Add Group	Clear	Back

#### Extensions

4a.1. If the Group Name<sup>\*</sup> is invalid, then ACME informs the Administrator, and shows the proper group naming convention. The use case fails.

CME - Add grou	)
Insert the followir	You are logged as Administrator
Group name	Group#3  Group name is not valid. It must be unique, long up to 32 and it can contains only letters, numbers, _, -, and blank space.
Functional areas	Access Level
functional area functional area functional area	P = ● Hidden ─ View ─ Edit
	Add Group Clear Back

4b.1. If the Group Name\* is already in use in Groups\*, then ACME informs that the given data is wrong. The use case fails.

ACME - Add group	D			_ + ×
Insert the followin	g group's info:		You are I	ogged as Administrator
Group name	Group001	* 😣	Group name is already in use. Choose a different one!	
Functional areas		Access Level		
functional area 1 functional area 2 functional area 3	P = O Hidden	⊘ View	⊚ Edit	
	Add Group	Clear		Back

Post-Conditions The group is created on the system, with associated access levels for the functional areas.

## **Use Case: Administrator List Groups**

This use case describes the process of listing groups in the ACME system by the Administrator.

## Notes

This use case can take the Administrator to the Edit Group use case. Users cannot be deleted from groups here, that must be done with the use case "Edit User" assigning him/her to a different group.

Level userGoal

**Priority** 3

Frequency periodically

Primary Actor Administrator

Pre-Conditions Administrator\_Logged\* is true.

## Main success scenario

1. The Administrator requests to list the groups on the system.

## 2. ACME displays the complete list of the existing Group Name\* in Groups\*.

ACME - Groups List		_ + X
Groups currently present		You are logged as Administrator
Group Name	7	
Administrator UNKNOW USER Group001 Group002 Group003 Group004	EditViewDeleteEditViewDeleteEditViewDeleteEditViewDelete	Back

3. The Administrator requests to view the Access Level\* for the Functional Areas\* for some groups.

4. ACME displays the access levels for the functional areas in read/write mode.

ACME - Show acce	ss level		_ + X
Group Group001's det	tails		You are logged as Administrator
Functional Areas Functional Area 1 Functional Area 2 Functional Area 3 	Access Levels Hidden View Hidden	Change Access Level Change Access Level Change Access Level	
		1	Back

Extensions

3a.1. Nothing

## **Use Case: External User List Groups**

This use case describes the process of listing groups in the ACME system by an External User.

Level userGoal

**Priority** 3

Frequency periodically

Primary Actor External User

Pre-Conditions The External User belongs to Logged Users\*.

## Main success scenario

1. The External User requests to list the groups on the system.

2. ACME displays the complete list of the existing groups in Groups\*.

You are logged as User00
Deals

3. The External User requests to view the Access Level\* for the Functional Areas\* for some groups.

4. ACME displays these access levels for the functional areas in read mode.

ACME - Show acc	ess level	-	. +	×
Group Group001's c	letails	You are logged as Use	r001	
Functional Areas	Access Levels			
Functional Area 1 Functional Area 2 Functional Area 3 	Hidden View Hidden			
		Bac	k	

Extensions

3a.1 Nothing

# Use Case: Administrator Edit Group

Goal This use case allows the administrator to edit a group.

Notes Users currently logged in are not affected.

Level userGoal

**Priority** 4

Frequency periodically

Primary Actor Administrator

**Pre-Conditions** Administrator\_Logged\* is true, and a list of groups is displayed.

## Main success scenario

CME - Groups List		_ + X
Groups currently present		You are logged as Administrator
Group Name		
Administrator UNKNOW USER Group001 Group002 Group003 Group004	EditViewDeleteEditViewDeleteEditViewDeleteEditViewDelete	Back

1. The Administrator requests to edit a group.

2. ACME displays the Group Info\* in read/write mode

ACME - Edit group	_ + X
You are currently editing Group001	You are logged as Administrator
Group name Group001	*
Functional areas functional area 1 functional area 2 functional area 3 v	Access Level
Save Changes	Clear Back

3. The Administrator enters Group Info\* of the selected group and confirms.

ACME - Edit group		_ + X
You are currently editing Grou	p001	You are logged as Administrator
Group name Group1	*	
Functional area 1 functional area 2 functional area 3	Access Level Hidden ⊚ View ⊚ Edit	
Save Changes	Clear	Back

4. If the Group Name\* is valid and not in use in Groups\*, then ACME confirms the changes and updates the group information in Groups\*

ACME - Groups List		_ + X
Groups currently present	ACME - Edit Group	You are logged as Administrator
Group Name	The selected group has been updated!	
Administrator UNKNOW USER Group1 Group002 Group003 Group004	Ok       Edit     View     Delete       Edit     View     Delete       Edit     View     Delete       Edit     View     Delete	Back

## Extensions

4a.1. If the Group Name\* is invalid, then ACME informs the Administrator and shows the proper group naming convention. The use case fails.

ACME - Edit group	_ + ×
You are currently editing Group001	You are logged as Administrator
Group name Group#1	<ul> <li>unique, long up to 32 and it can contains only letters, numbers, _, -, and blank space.</li> </ul>
Functional areas	Access Level
functional area 1 functional area 2 functional area 3	
Save Changes	Clear Back

4b.1 If the Group Name<sup>\*</sup> is already in use in Groups<sup>\*</sup>, then ACME informs the Administrator to choose a different one. The use case fails.

ACME - Edit grou	р		_ + X
You are currently	v editing Group001	You are lo	ogged as Administrator
Group name	Group002	* Group name is already in use. Choose a different one!	
Functional areas	3	Access Level	
functional area functional area functional area	1 A 2 E 3 V		
Sa	ave Changes	Clear	Back

Post-Conditions All users that are part of an edited group remain in that group, even if the name has been changed

# **Use Case: Administrator Delete Group**

Goal This use case allows the administrator to delete a group.

Level userGoal

**Priority** 4

Frequency exceptionally

Primary Actor Administrator

Pre-Conditions Administrator\_Logged\* is true, and a list of groups is displayed.

## Main success scenario

CME - Groups List		_ + X
Groups currently present		You are logged as Administrator
Group Name		
Administrator UNKNOW USER Group001 Group002 Group003 Group004	EditViewDeleteEditViewDeleteEditViewDeleteEditViewDelete	Back

1. The Administrator requests to delete a group from the system.

## 2. If the group contains no users in Users\*, then ACME asks the Administrator for a confirmation

	ACME - Delete Group	
Group Name	You are going to delete Crowp001. Are you ouro?	
Group001 Group002 Group003	Yes No	
Group004	Edit   View   Delete     Edit   View   Delete	

3. The Administrator confirms the intention to delete the selected group.

4. ACME informs the Administrator that the selected group has been removed; the group is removed from Groups\*.

ACME - Groups List		_ + X
Groups currently present		You are logged as Administrator
Group Name	ACME - Success!	
Administrator	The selected group has been successfully removed!	
Group002	Ok	
Group003 Group004		
	Edit View Delete	
	Edit View Delete	
		Back

## Extensions

2a.1. If the group contains any users in Users\*, then ACME informs the Administrator that the group cannot be deleted, listing the associated usernames. The use case fails.

ACME - Groups List	_ + X
Groups currently present	ACME- Delete Group
Group Name Administrator UNKNOW USER Group001 Group002 Group003 Group004	The group named Group001 contains the following users, therefore it cannot be deleted: * User003 * User004

3a.1. The Administrator cancels the operation. The use case fails.

Post-Conditions Selected group is removed from Group\* if it does not contains any user in Users\*.
## Use Case: Administrator Enable/Disable Security

Goal This use case allows the administrator to enable/disable the security.

Notes Users currently logged in are not affected

Level userGoal

Priority 1

Frequency exceptionally

Primary Actor Administrator

Pre-Conditions Administrator\_Logged\* is true

#### Main success scenario

1. If Security\_Enabled\* is false, then the Administrator requests to enable system security.

2. ACME shows the functionalities according to the enabled system security; Security\_Enabled\* becomes true.

ACME - Main	
Jobs	You are logged as Administrator
Add Job	Disable Security
Open Job	
List Jobs	
Users	
Add User	
List Users	
Groups	
Add Group	
List Groups	
Databases	
List Databases	
Switch Database	Exit

#### Extensions

1a.1. If Security\_Enabled\* is true, then the Administrator requests to disable system security.

1a.2. ACME shows the functionalities according to the disabled system security; Security\_Enabled\* becomes false

## Use Case: External User Become Administrator

Goal This use case allows any user to become the Administrator.

#### Notes

The motivation for this use case are:

- It is preferred that the Login screen is not displayed when security is disabled
- A user cannot login as the Administrator when security is disabled

Level userGoal

Priority 1

Frequency exceptionally

Primary Actor External User

Pre-Conditions The External User belongs to Logged Users\*, and Security\_Enabled\* is false.

#### Main success scenario

ACME - Main	_ + X
Jobs Add Job	You are logged as Unknown User Become Administrator
Open Job List Jobs	
Users	
List Users	
Groups	
List Groups	
Databases	
List Databases	
Switch Database	
	Exit

1. The External User requests to become the Administrator.

2. If Administrator\_Logged\* is false, then then ACME requests to log in

ACME - Login	_ + X
Username	Username
Password	Password
Login	Cancel

3. The External User enters Username\* and Password\*.

ACME - Login			÷	×
Username	admin			
Password	*****			
1 dosmond				
Login	Cancel			
		_		

4. If the Username\* and Password\* are valid and the External User does not have a current Dirty Job\* open in Jobs\*, then ACME confirms the change of role; Administrator\_Logged\* becomes true, the External User name is recorded as Upgraded User\*, and any non-Dirty Job\* open jobs of the External User in Jobs\* are closed.

ACME - Main		_ + X
Jobs Add Job Open Job List Jobs	Success!	You are logged as Administrator Switch Back Enable Security
Users	You have successfully logged in as the administrator!	
List Users	Close	
Groups		
List Groups		
Databases		
List Databases		
Switch Database		
		Exit

Post-Conditions The External User is now an administrator and he can performs his administrative functions.

#### Extensions

2a.1. If Administrator\_Logged\* is true, then ACME informs the External User that it cannot log as Administrator. The use case fails.

ACME - Main		_ + X
ACME - Main Jobs Add Job Open Job List Jobs	Failure! - + * There is already a logged administrator. You can't log in as administrator right now!	You are logged as Unknown User Become Administrator
Groups List Groups Databases	Close	
List Databases Switch Database		Exit

3a.1. The External User aborts the operation. The use case fails.

4a.1. If either the Username\* or the Password\* are invalid, then ACME informs that the given data is wrong. The use case fails.



4b.1. If the External User has a current Dirty Job\* open, then ACME asks the External User to save their information.

	- * ^
You ai	e logged as Unknown User Become Administrator
ACME - Become Administrator	
You have some open jobs. Do you want to save the changes?	
Yes No	
	Exit
	ACME - Become Administrator

4b.2. The External User confirms the intention to save the information.

- 4b.3. ACME saves the information and close the jobs. The use case continues to step 4.
- 4b.2.a.1. The External User refuses to save the information.
- 4b.2.a.2. ACME discards his changes, and closes the jobs. The use case continues to step 4.
- 4b.2.b.1. The External User aborts the operation. The use case fails.

# Use case: Administrator Switch Back

Goal This use case allows an administrator to switch back to her/his previous role

Level userGoal

**Priority** 1

Frequency exceptionally

Primary Actor Administrator

Preconditions Administrator\_Logged\* is true, and Security\_Enabled\* is false

### **Main Success Scenario**

ACME - Main	_ + X
Jobs	You are logged as Administrator
Add Job	Switch Back
Open Job	Enable Security
List Jobs	
Users	
List Users	
Groups	
List Groups	
Databases	
List Databases	
Switch Database	
	Exit

1. The Administrator requests to switch back to his previous identity.

ACME - Main	
Jobs Add Job Open Job List Jobs	You are logged as Unknown User Become Administrator
Users List Users	
Groups List Groups	
Databases	
	Exit

2. ACME confirms the change; Upgraded User\* is added to Logged Users\*, and Upgraded User\* becomes undefined.

# Use Case: Create Job

Goal This use case allows an User to create a new job.

Level userGoal

Priority 1

Frequency continuosly

Primary Actor User

#### Main success scenario

ACME - Main	_ + X
Jobs	You are logged as User001
Add Job	
Open Job	
List Jobs	
Users	
List Users	
Groups	
List Groups	
Databases	
List Databases	
Switch Database	
	Exit

1. The User requests to add a new job.

2. ACME prompts the User for the Job\_Info\*.

ACME - Create Job		_ + X
Insert the following job's inf	5	You are logged as User001
Short Description	Title	
	Issue	
Long Description	Туре 🔹	
	Module -	
Add Job	Clear	Back

3. The User enters the Job\_Info\* and confirms.

ACME - Create Job		_ + ×
Insert the following job's ir	ıfo	You are logged as User001
Job 001	Job 001 Title	
	none	
this is a job	planned -	
	module 1 -	
Add Job	Clear	Back

4. If there is no job in Open In Editor\*, then ACME opens the new job in the editor; an entry for this job characterized by the Job\_Info\* is added in Jobs\*

ACME - Main				_ + X
Jobs Add Job			You are logged	l as User001
Open Job	ACME - Job 001		- *	×
List Jobs	Some Stuff	Other Stuff few more stuff	stuff	
Users	stuff	stuff		
List Users		🔲 stuff	stuff 👻	
Groups				
List Groups	Save	Clear Locks	Close	
Databases				
List Databases				
Switch Database				
			E	cit

#### Extensions

4a.1. If a non dirty job in Jobs\* is Open In Editor\*, then ACME asks the User to choose where to open the new job.

ACME - Create Job	)	_ + X					
Insert the following job's info You are logged as User001							
Job 001	ACME - Open Job - + ×						
	Where do you want to open this job?						
this is a job	<ul> <li>new editor</li> <li>current editor</li> </ul>						
	Ok Cancel						
Add J	Back						

4a.2. The User answers to open the job in the current editor.

4a.3. ACME opens the new job in the current editor and closes the old non dirty-Jobs\*; an entry for the new job is added in Jobs\*.

			_ + X
		You are logged a	as User001
Some Stuff	Other Stuff		
stuff	few more stuff	stuff	
stuff	🔲 stuff		
stum	📃 stuff	stuff 🔻	
	_		
Save	Clear Locks	Close	
		Exi	t
	CME - Job 001 Some Stuff stuff stuff  Save	Some Stuff         stuff         stuff         stuff            Save         Clear Locks	Some Stuff         stuff         stuff         stuff         stuff         stuff         Save         Clear Locks         Exi

4a.2.a.1. The User answers to open the job in a new editor.

ACME - Main				_ + X
Jobs Add Job			Yo	u are logged as User001
Open Job	ACME - Job 002			_ + X
Users	CME - Job 001		_ 4	
List Users	Some Stuff stuff	Other Stuff few more stuff	stuff	•
Groups	stuff stuff 	stuff	stuff 👻	
Databases				
List Databases	Save	Clear Locks	Close	
				Exit

4a.2.a.2. ACME opens the new job in a new editor; an entry for the new job is added in Jobs\*.

4a.2.b.1. The User aborts the operation. The use case fails.

4b.1. If a dirty job in Jobs\* is Open In Editor\*, then ACME asks the User if he wants to save unsaved changes.

ACME - Create Job	)	_ + ×
Insert the following	job's info	You are logged as User001
Job 001	ACME - Open Job 🗧 🔸 🗙	
	There is another open job. Do you want to save it?	
this is a job	Yes No	
Add J	ob Clear	Back

4b.2. The User answers to save the changes.

4b.3 ACME asks the User to choose where to open the new job; the changes of the old dirty job in Jobs\* are saved. The use case continues at step 4a.2.

4b.2.a.1 The User refuses to save the changes.

4b.2.a.2 ACME asks the User to choose where to open the new job; the changes of the old dirty job in Jobs\* are discarded. The use case continues at step 4a.2

4b.2.b.1. The User aborts the operation. The use case fails.

# Use Case: Administrator Search/List Jobs

Goal This use case allows the Administrator to search for jobs that are currently on the system.

Level userGoal

Priority 1

Frequency frequently

Stakeholders The company that intend to sell the software and the future users.

Primary Actor Administrator

Preconditions Administrator\_Logged\* is true

#### Main success scenario

ACME - Main	_ + X
Jobs	You are logged as Administrator
Add Job	Disable Security
Open Job	
List Jobs	
Users	
Add User	
List Users	
Groups	
Add Group	
List Groups	
Databases	
List Databases	
Switch Database	Exit

1. The Administrator requests to list the jobs.

2. ACME displays all Jobs\* with their characterizing Job Info\*.

A	CME - Jobs List								_ + X
								You are log	gged as Administrator
	Search Criteria								
	short descrip	tion created from	m - to	create	ed by	- typ	De	•	Search
	title	modified fro	m - to	modul	e	• iss	ue		Clear
				Got	to page	Pa	age 3 of 10 <<	< 1 2 3	4 5 > >>
	Short Description	Long Description	Created By	Title	Issue	Туре	Module	Created	Modified
	job001	description of job001	User001	The Job	-	Open	module1	11-03-15	13-03-15
	job002 job003	- this job is	User002 User001	i nis is a title -	an issue -	Create	module1 module3	23-05-15 09-11-15	09-11-15
	]								
		Add	Edit	Remove	Oper	n (	Clear Locks		Back

3. The Administrator enters the desired Search Criteria\* and requests to search.

A	CME - Jobs List								_ + X
								You are lo	gged as Administrator
	Search Criteria	01-01-15	- 31-12-	15 User00	)1		types	•	Search Clear
	Short Description	Long Description	Created By	Go t	o line Issue	Pa	ige 1 of 1 Module	Created	Modified
	job001 job003	description of job001 this job is	User001 User001	The Job -	-	Open Create	module1 module3	11-03-15 09-11-15	13-03-15 09-11-15
		Add	Edit	Remove	Open		Clear Locks		Back

4. If there is at least one job satisfying the Search Criteria\*, then ACME lists all jobs matching it.

#### **Extensions:**

4a.1 If there is no job satisfying the Search Criteria\*, then ACME informs the Administrator that there is no job matching the inserted criteria. The use case fails.

AE - Jobs List				Yo	u are logged as Administra
job	01-01-15	- 31-12-15	User001 -	All types	Search
title#123		-	All modules -		Clear
No res	ults found. Long Description	Created By Title	Go to line Issue Type	Page 1 of 1 Module Cre	ated Modified
	Add	Edit	Remove Open	Clear Locks	Back

# Use Case: External User Search/List Jobs

Goal This use case lets the External User search for jobs that are currently on ACME.

Level userGoal

Priority 1

Frequency frequently

Primary Actor External User

Preconditions The External User belongs to Logged Users\*

#### Main success scenario

ACME - Main	_ + X
Jobs	You are logged as User001
Add Job	
Open Job	
List Jobs	
Users	
List Users	
Groups	
List Groups	
Databases	
List Databases	
Switch Database	
	Exit

1. The External User requests to list the jobs.

created from	m - to m - to	crea mod	ted by ule	<ul> <li>▼ ty</li> <li>▼ is</li> </ul>	/pe sue Page 3 of 10 <<	You are lo	gged as User001 Search Clear 4 5 > >>
created from	m - to	crea mod	ule	▼ ty ▼ is	/pe sue Page 3 of 10 <<	< 1 2 3	Search Clear
created from	m - to um - to	crea mod	ule	ty   is	vpe sue Page 3 of 10 <<	< 1 2 3	Search Clear
modified fro	om - to	mod	ule	▼ is	sue Page 3 of 10 <<	< 1 2 3	Clear
		G	to page	F	Page 3 of 10 <<	< 1 2 3	45 > >>
					-9		
g Description	Created By	Title	Issue	Туре	Module	Created	Modified
cription of job001	User001 User002	The Job This is a title	- an issue	Open Close	module1 module1	11-03-15 23-05-15	13-03-15 27-05-15
job is	User001	-	-	Create	module3	09-11-15	09-11-15
Add	Edit	Remove	Оре	:n	Clear Locks		
							Back
ç j	) Description ription of job001 job is Add	3 Description Created By ription of job001 User001 User002 job is User001 Add Edit	g Description     Created By     Title       :ription of job001     User001     The Job       User002     This is a title       job is     User001     -	a Description     Created By     Title     Issue       :ription of job001     User001     The Job     -       User002     This is a title     an issue       job is     User001     -     -	g Description       Created By       Title       Issue       Type         :ription of job001       User001       The Job       -       Open         User002       This is a title       an issue       Close         job is       User001       -       -       Create	g Description       Created By       Title       Issue       Type       Module         :ription of job001       User001       The Job       -       Open       module1         user002       This is a title       an issue       Close       module1         job is       User001       -       -       Create       module3	g Description       Created By       Title       Issue       Type       Module       Created         :ription of job001       User001       The Job       -       Open       module1       11-03-15         User002       This is a title       an issue       Close       module1       23-05-15         job is       User001       -       -       Create       module3       09-11-15

2. ACME displays all jobs in Jobs\* with their characterizing Job\_Info\*.

3. The External User enters the desired Search Criteria\* and requests to search.

4. If Security\_Enabled\* is true, then ACME lists all jobs matching the Search Criteria\* and CRUD options are shown according to Access Level\*.

ACM	1E - Jobs List									_ + X
									You are log	ged as User001
-5	Search Criteria									
	short descrip	tion	created from	n - to	create	ed by	ty	pe	•	Search
								-		Class
	title		modified fro	m - to	modul	e .	r is	sue		Clear
					Gol	to page	P	age 3 of 10 <<	< 1 2 3 4	5 > >>
S	hort Description	Long Descri	ption	Created By	Title	Issue	Type	Module	Created	Modified
jot	b001	description of	of job001	User001	The Job	-	Open	module1	11-03-15	13-03-15
🥡 jot	b002	-		User002	This is a title	an issue	Close	module1	23-05-15	27-05-15
job	b003	this job is		User001	-	-	Create	module3	09-11-15	09-11-15
			Add	Edit	Remove	Open		Clear Locks		
									ſ	Back
										Duon

Extensions 4a.1 If Security\_Enabled\* is false, then ACME lists all jobs matching the Search Criteria\* and all job CRUD options are available

A	CME - Jobs List								-	+ X
								You are lo	gged as Unknow	n User
	Search Criteria									
	job	01-01-15	- 31-12-1	15 User0	01	▼ All	types	•	Search	
			-	All mo	odules	•			Clear	
				Go	to line	Pa	age 1 of 1			
	Short Description	Long Description	Created By	Title	Issue	Туре	Module	Created	Modified	
	job001	description of job001	User001	The Job	-	Open	module1	11-03-15	13-03-15	
	job003	this job is	User001	-	-	Create	module3	09-11-15	09-11-15	
		Add	Edit	Remove	Оре	n (	Clear Locks		Back	

## Use Case: Open Job

Goal This use case allows a User to open a job

#### Notes

- Users can have multiple ACME sessions open per PC
- Users can be logged into more than one PC
- A Job and its modules may be locked by another user
- A Job may be opened by another user, but no modules may be currently locked by that user

Level userGoal

Priority 1

Frequency continuously

Primary Actor User

Actor User

Preconditions A Job List\* is displayed.

#### Main success scenario

ACME - Job	os List								_ + X
								You are lo	gged as User001
Search C	riteria								
short	description	created from	n - to	creat	ed by	- typ	e	•	Search
title		modified fro	m - to	modu	le ·	• iss	ue		Clear
				Go	to page	Pa	ge 3 of 10 <<	< 1 2 3	45 > >>
Short Desc	cription Lor	ng Description	Created By	Title	Issue	Туре	Module	Created	Modified
job001	des	scription of job001	User001	The Job This is a title	- an issue	Open	module1	11-03-15 23-05-15	13-03-15
job002	this	s job is	User001	-	-	Create	module3	09-11-15	09-11-15
		Add	Edit	Remove	Open		Clear Locks		
									Back

1. If no job is Open In Editor\*, the User requests to open a job.

2. If the job or one of its module is locked by another user in Jobs\*, then ACME warns the User providing the lock information and opens the job in the current editor in read-only mode.

ACME - Jobs List Search Criteria	ACME - Job 001	ACME - Open Job Job job001 has been locked by User003 from 08 You are granted with read only access.	3-10-15 9:33
short description created from title modified from	stuff stuff 	stuff stuff stuff	
Short Description Long Description job001 description of job001 job002 - U job003 this job is	Jser002 This is a ti Jser001 -	Save Clear Locks Close tle an issue Close module1 - Create module3	> >> ed 15 23-05-15 27-05-15 09-11-15 09-11-15
Add	Edit Re	emove Open Clear Locks	Back

#### Extensions

2a.1. If another user has opened the job but neither the job nor its modules are locked in Jobs<sup>\*</sup>, then ACME warns the User which other users are editing this job at this time and opens the job in the current editor; the user that opened the job is recorded in Open Jobs<sup>\*</sup> at this date/time, and the lock on the job in Jobs<sup>\*</sup> is updated with the current user.

				ACME - Op	en Job					
A	CME - Jobs List Search Criteria short descrip	tion	E - Job 001 Some Stuff stuff stuff 	The following - User0 Now you ow	g users are curr 105 n the lock for th	rently editing nis job. k	this job:	+ ×	ogged as User00*	+ X
	Short Description	Long Description	Created By	Save (	Clear Locks	Close	e Module	2 3 Created	4 5 > >> Modified	
	job001 job002 job003 	description of job00 - this job is	1 User001 User002 User001	The Job This is a title -	- an issue -	Open Close Create	module1 module1 module3	11-03-15 23-05-15 09-11-15	13-03-15 27-05-15 09-11-15	
		Add	Edit	Remove		en	Clear Locks		Back	

2b.1. If the job is not currently locked by another user, then ACME opens the job in the current editor; the user that opened the job is recorded in Open Jobs\* at this date/time, and the lock on the job in Jobs\* is updated with the current user.

A	CME - Jobs List Search Criteria short descrip title	tion	IE - So stu stu stu	Job 001 me Stuff ff ff	Save	Other Stuff few more stuff stuff stuff clear Locks	stuff stuff	e	<ul> <li>×</li> <li>×</li> </ul>	e logged as User001 Search Clear	+ X
	Short Description	Long Description description of job00 - this job is Add	1	Created By User001 User002 User001	Title The Job This is a title - Remo	Issue - an issue - yve Open	Type Open Close Create	Module module1 module3 Clear Locks	Created 11-03-15 23-05-15 09-11-15	3       4       5        >>         Modified       13-03-15            5       27-05-15             09-11-15              Back	

# Use Case: Edit Job

Goal This use case allows a User to edit a job

Level userGoal

Priority 1

Frequency frequently

Primary Actor User

Preconditions A Job List\* is displayed.

#### Main success scenario

A	CME - Jobs List								_ + X
								You are log	ged as User001
	Search Criteria								
	short descrip	tion created from	m - to	create	ed by	• typ	)e	•	Search
	title	modified fro	m - to	modu	le ·	• iss	ue		Clear
				Go	to page	Pa	age 3 of 10 <<	< 1 2 3 4	45 > >>
	Short Description	Long Description	Created By	Title	Issue	Туре	Module	Created	Modified
	job001	description of job001	User001	The Job	-	Open	module1	11-03-15	13-03-15
	jobuuz jobuuz	- this job is	User002 User001	i nis is a title -	an Issue -	Create	module1 module3	23-05-15 09-11-15	09-11-15
		3							
		Add	Edit	Remove	Open		Clear Locks		
								[	Back

1. The User requests to edit a job in accordance with his rights.

2. If the User has write permission and the job is not locked by another user in Jobs\*, then ACME displays the Job Info\*; a lock for the job by that user in is updated in Jobs\*.

	ACME - Edit Job	_ + X	
ACME - Jobs List	You are currently editing job001	You are logged as User001	_ + X
Search Criteria	job001 The Job		re logged as User001
title	description of job001		Clear
	module 1 -		3 4 5 > >>
Short Description job001 job002	Save Changes Clear	Back	Modified 5 13-03-15 5 27-05-15
job003	this job is User001	- Create module3 09-11-1	5 09-11-15
	Add Edit Remove	Open Clear Locks	
			Back

3. The User enters the Job Info\* and confirms the changes.

		ACME - Edit Job	_ + X	
ACME - Job	s List	You are currently editing job001	You are logged as User001	4 X
		newjob001 Job 001 new title	are logged as User00*	1
Search Cr	riteria			
short	descrip	-	Search	
title		new long description	Clear	
		module 2		
			2 3 4 5 > >>	_
Short Desc	ription	Save Changes Clear	Back 3d Modified	
job001			15 13-03-15 15 27-05-15	
job003		this job is User001	Create module3 09-11-15 09-11-15	
		Add Edit Remove	Open Clear Locks	_
			Back	

4. ACME unlocks the job in Jobs\* and prompt the User back to Job List\*, where the changes have been applied.

A	CME - Jobs List							You are log	gged as User001
	short descrip	tion created from	m - to	create	d by	type		•	Search
	title	modified fro	m - to	modul	e ·	• issue	)		Clear
			0	Go t	o page	Pag	e3 of 10 <<	< 1 2 3	4 5 > >>
	Short Description newjob001 job002 job003 	Long Description new long description - this job is	Created By User001 User002 User001	Ittle Job 001 new title This is a title -	Issue - an issue -	Iype Completed Close Create	Module module2 module1 module3	Created 11-03-15 23-05-15 09-11-15	Modmed 15-03-15 27-05-15 09-11-15
	L	Add	Edit	Remove	Oper		ear Locks		Back

#### Extensions

2a.1 If the User has read-only permission, then ACME displays the Job Info\* in read only mode The use case fails.

	ACME - Edit Job	_ + ×	
ACME - Jobs List	You are currently editing job001	You are logged as User001	_ + X
Search Criteria short descrip title	job001 The Job - description of job001 open module 1		re logged as User001          Search         Clear         2       3       4       5       > >>
Short Description job001 job002 job003	Save Changes Clear this job is User001	Back Create module3 09-11-1	d Modified 15 13-03-15 15 27-05-15 15 09-11-15
	Add Edit Remove	Open Clear Locks	Back

2b.1 If the User has no permission to access to job information, then the use case fails

A(	CME - Jobs List								_ + ×
								You are lo	gged as User001
	Search Criteria								
	short descrip	tion created fro	m - to	creat	ed by	• typ	e	•	Search
									Clear
	title	modified fro	om - to	modu	ıle	▼ iss	ue		Clear
				Go	to page	Pa	ıge 3 of 10 <<	< 1 2 3	45 > >>
	Short Description	Long Description	Created By	Title	Issue	Туре	Module	Created	Modified
<b>V</b>	job001	description of job001	User001	The Job	-	Open	module1	11-03-15	13-03-15
	job002	-	User002	This is a title	an issue	Close	module1	23-05-15	27-05-15
	Jopnn3	this jod is	User001	-	-	Create	module3	09-11-15	09-11-15
		Add	Edit	Remove	Оре	n	Clear Locks		
									Back

## Use Case: Save Job

Goal This use case allows a User to save a job

Level userGoal

**Priority** 1

Frequency continuously

Primary Actor User

Pre-Conditions The User has a Dirty Job\* open in read-write mode

#### Main success scenario

		A	CME - J	ob 001*				-	+ ×	
A	CME - Jobs List		Som	e Stuff	0	ther Stuff				_ + >
Γ	Search Criteria short descrip	tion	stuff stuff stuff 		[	stuff stuff	stuff stuff	•	are	logged as User001
	title				Save	ear Locks	Close			Clear
	Short Description	Long Descript	ion	Created By	Title	Issue	Туре	Module	2 3 Created	4 5 > >> Modified
	job001 job002 job003	description of j this job is	ob001	User001 User002 User001	The Job This is a title -	- an issue -	Open Close Create	module1 module1 module3	11-03-15 23-05-15 09-11-15	13-03-15 27-05-15 09-11-15
	L		Add	Edit	Remove	Оре	en (	Clear Locks		Back

1. The User requests to save a job.

2. ACME confirms the operation; job details are saved into Job\_Info\* and job state in Jobs\* is changed into clean.

	ACME - Job 001		-	* X
ACMF - Jobs List	Some Stuff	Other Stuff		_ + X
Search Criteria short description title	stuff stuff 	Save Clear Locks	stuff •	are logged as User001 Search Clear 2 3 4 5 > >>
Short Description Long Des	scription Created By	Title Issue	Type Module	Created Modified
job001 descriptio	on of job001 User001	The Job -	Open module1	11-03-15 13-03-15
job002 - job003 this job is	user002 s User001	This is a title an issue	Close module1 Create module3	23-05-15 27-05-15 09-11-15 09-11-15
	Add Edit	Remove Op	en Clear Locks	Back

# Use Case: Delete Job

Goal This use case allows a user to delete one or more jobs

Level userGoal

**Priority** 1

Frequency periodically

Primary Actor User

**Pre-Conditions** A Job List\* is displayed.

#### Main success scenario

A	CME - Jobs List								_ + X
								You are lo	gged as User001
	Search Criteria								
	short descrip	tion created from	m - to	creat	ted by	▪ typ	be	•	Search
	title	modified fro	om - to	mode	ule	▼ iss	ue		Clear
				Go	to page	Pa	age 3 of 10 <<	< 1 2 3	4 5 > >>
	Short Description	Long Description	Created By	Title	Issue	Туре	Module	Created	Modified
	job001	description of job001	User001	The Job	-	Open	module1	11-03-15	13-03-15
	job002 job003	this job is	User002 User001	This is a title -	an Issue -	Close Create	module1 module3	23-05-15 09-11-15	09-11-15
		Add	Edit	Remove	Oper	n (	Clear Locks		Back

1. If the User has Delete permission\* on some Jobs\*, then he asks to delete some of them.

2. ACME asks for a confirmation.

ACME - Jobs List					_ + X
Search Criteria				You a	re logged as User001
short description	created from	ACME - Delete Job – 🔸	×	•	Search
title	modified from	You are about the delete the following jobs:	e		Clear
		- job001 - job002	µe3 of10 <<	< 1 2 3 4	45 > >>
Short Description Long	Description (	Are you sure?	Module	Created	Modified
✓ job001     descr       ✓ job002     -       ✓ job003     this jo       ✓	iption of job001 L L ob is L	Ok Cancel	module1 module1 module3	11-03-15 23-05-15 09-11-15	13-03-15 27-05-15 09-11-15
	Add	Edit Remove Open	Clear Locks		Back

3. The User confirms the intention to delete the selected jobs.

4. If there are jobs or modules locked in Jobs\*, then ACME deletes all the jobs where no job or module locks in Jobs\* exists and informs the User that some of them are locked and cannot be deleted, providing Lock\_Info\*; the Job List\* is updated.

ACM	IE - Jobs List									_ + ×
	Search Criteri	а							You a	re logged as User001
	short descrip	tion	created from	ACME - I	Delete Job		_ + X		•	Search
	title		modified from	m The follow	ving jobs are locke	d and cannot be	e deleted:	е		Clear
				- jc	,			10 3 of 10 <<	< 1 2 3 /	5
SI	hort Description	Long Descr	iption	c	Ok			Module	Created	Modified
📄 jot	b002 b003	- this job is		User002 User001	This is a title -	an issue -	Close Create	module1 module3	23-05-15 09-11-15	27-05-15 09-11-15
			Add	Edit	Remove	Oper		Clear Locks		Back

#### Extensions

3a.1. The External User aborts the operation. The use case fails.

4a.1. If no jobs or modules are locked in Jobs\*, then ACME deletes all of them from Jobs\*; the Job List\* is updated.

snort descriptio	n created from	ACME - Delete Job	)	_ + ×		•	Search
title	modified fron	All the selected jobs I	have been deleted s	successfully!			Clear
		[	Ok		i of 10 <<	< 1 2 3 4	5 > >>
hort Description	ong Description	Created By Title	Issue	Туре	Module	Created	Modified
5003 th	is job is U	Jser001 -	-	Create	module3	09-11-15	09-11-15

# Use case: Administrator Clear Job Lock

Goal This use case allows the administrator to clear a lock on a job

#### Notes

- This can potentially occur when a job is open by a user, and then something happens to that user's computer, such as the computer losing power.
- The Administrator can clear a lock on any job

Level userGoal

Priority 1

Frequency frequently

Primary Actor Administrator

Pre-Conditions Administrator\_Logged\* is true, a Job List\* is displayed

#### Main success scenario

A	CME - Jobs List								_ + X
								You are logg	ed as Administrator
	Search Criteria								
	short description created from		m - to	create	ed by	• ty	/pe	•	Search
	title	modified fro	m - to	modul	e ·	• is	sue		Clear
				Gol	to page	F	Page 3 of 10 <<	< 1 2 3 4	5 > >>
	Short Description	Long Description	Created By	Title	Issue	Туре	Module	Created	Modified
	job001	description of job001	User001	The Job	-	Open	module1	11-03-15	13-03-15
	job002	-	User002	This is a title	an issue	Close	module1	23-05-15	27-05-15
	job003	this job is	User001	-	-	Create	module3	09- <b>1</b> 1-15	09-11-15
		Add	Edit	Remove	Oper	1	Clear Locks		Back

1. The Administrator requests to clear the locks on a job.

CME - Jobs List								- +
							You are log	ged as Administrato
Search Criteria								
short descrip	otion created fro	m - to	creat	ed by	▼ ty	pe	<b>•</b>	Search
title	modified fr	om - to	modu	ule	→ iss	ue		Clear
			Go	to page	Pa	age 3 of 10 <<	< 1 2 3	45 > >>
Short Description	Long Description	Created By	Title	Issue	Туре	Module	Created	Modified
job001	description of job001	User001	The Job	-	Open	module1	11-03-15	13-03-15
ob002	-	User002	This is a title	an issue	Close	module1	23-05-15	27-05-15
job003	this job is	User001	-	-	Create	module3	09-11-15	09-11-15
	Add	Edit	Remove	Оре	en	Clear Locks		
								Back

## 2. ACME displays Lock\_Info\* recovered from Jobs\*.

A	CME - Jobs List								
	Search Criteria							You are logge	ed as Administrator
	short descrip	created fro	m - A	CME - Lock Info	-	÷ X	/pe	•	Search
	title	modified fro	om -	Job001's locks:			sue		Clear
				from 11-11-15 9	:13 by User001				
				🔲 from 13-11-15 1	17.21 by User002		Page 3 of 10 <<	< 1 2 3 4	5 > >>
	Short Description	Long Description	Creat				Module	Created	Modified
V	job001	description of job001	User0	Clear Lock	Cancel		module1	11-03-15	13-03-15
	job002	-	User0				module1	23-05-15	27-05-15
	job003	this job is	User001	-	-	Create	module3	09-11-15	09-11-15
		Add	E	dit Remove	Open		Clear Locks		
									Back

#### 3. The Administrator selects the locks he wants to clear.

A	CME - Jobs List						_ + ×
						You are logg	ed as Administrator
	Search Criteria						
	short descrip	tion created from	n -	ACME - Lock Info	rpe	•	Search
	title	modified fro	m -	Job001's locks:	sue		Clear
				✓ from 11-11-15 9:13 by User001			
				from 13-11-15 17.21 by User002	'age 3 of 10 <<	< 1 2 3 4	5 > >>
	Short Description	Long Description	Creat		Module	Created	Modified
<b>V</b>	job001	description of job001	User(	Clear Lock Cancel	module1	11-03-15	13-03-15
	job002	-	User(		module1	23-05-15	27-05-15
	job003	this job is	User0	001 Create	module3	09-11-15	09- <b>1</b> 1-15
		Add		Edit Remove Open	Clear Locks		
						[	Back

## 4. ACME asks for a confirmation.

A	CME - Jobs List								- +	×
	Search Criteria				ACME - Lock	< Clear		You are log	gged as Administrato	or
	short descrip title	tion created fro modified fro	m - om -	ACME - Loc Job001's loi	You are goin Are you sure	ig to clear the sele	cted locks from	Job001.	Search Clear	
				✓ from		Yes	No	3	4 5 > >>	
	Short Description	Long Description	Creat				Module	Created	Modified	
V	job001	description of job001	User(	Clear	Lock Ca	ancel	module1	11-03-15	13-03-15	
	job002	-	User(				module1	23-05-15	27-05-15	
	job003	this job is	User0(	01 -	-	Create	module3	09-11-15	09-11-15	
		Add		Edit	Remove	Open	Clear Locks		Back	

5. The Administrator confirms the operation.

6. ACME confirms the removal; the selected locks in Jobs\* are removed and Lock\_Info\* is updated.

A	CME - Jobs List								_ + X
	Search Criteria							You are log	ged as Administrator
	Search Chiteria								
	short descrip	tion created fro	m - to ACM	E - Success!	ted by	▼ tvn		•	Search
	title	modified fr	om -						Clear
			J	ob001 locks have l	been cleared su	ccessfully!			
					Ok		3 of 10 <<	< 1 2 3	45 > >>
	Short Description	Long Description	Crea				Nodule	Created	Modified
	job001	description of job001	User001	The Job	-	Open	module1	11-03-15	13-03-15
	job002	-	User002	This is a title	an issue	Close	module1	23-05-15	27-05-15
	job003	this job is	User001	-	-	Create	module3	09-11-15	<b>09-11-1</b> 5
		Add	Edit	Remove	е Ор	en (	Clear Locks		
									Back

#### Extensions

5a.1. The Administrator aborts the operation. The use case fails.

## Use case: External User Clear Job Lock

Goal This use case allows an external user to lock a job.

#### Notes

- This can potentially occur when a job is open by a user, and then something happens to that user's computer, such as the computer losing power.
- In single-user mode, a user can clear a lock on any job
- In multi-user mode, other users can clear locks on their jobs

Level userGoal

**Priority 1** 

Frequency frequently

Primary Actor External User

Pre-Conditions A Job List\* is displayed

#### Main success scenario

A	CME - Jobs List								_ + X
								You are log	ged as User001
	Search Criteria								
	short descrip	tion created from	m - to	create	ed by	▪ typ	pe	•	Search
	title	modified fro	om - to	modu	le	✓ iss	ue		Clear
				Go	to page	Pa	age 3 of 10 <<	< 1 2 3 4	45 > >>
	Short Description	Long Description	Created By	Title	Issue	Туре	Module	Created	Modified
	job001	description of job001	User001	The Job	-	Open	module1	11-03-15	13-03-15
	job002 job003	- this job is	User002 User001	-	-	Create	module3	23-05-15 09-11-15	09-11-15
		Add	Edit	Remove	Oper		Clear Locks		Back

1. The External User requests to clear the locks on a job.
| Search Criteria   | tion or at a fra      | m - to     |                 | - J      |        |            |          | Court    |
|-------------------|-----------------------|------------|-----------------|----------|--------|------------|----------|----------|
| short descrip     | created iro           |            | creat           | ea by    | • typ  | e          | •        | Search   |
| title             | modified fr           | om - to    | modu            | lle      | ▼ iss  | ue         |          | Clear    |
|                   |                       |            | Go              | to page  | Pa     | ge3of10 << | < 1 2 3  | 45 > >>  |
| Short Description | Long Description      | Created By | Title           | Issue    | Туре   | Module     | Created  | Modified |
| job001            | description of job001 | User001    | The Job         | -        | Open   | module1    | 11-03-15 | 13-03-15 |
| job002            | -                     | User002    | This is a title | an issue | Close  | module1    | 23-05-15 | 27-05-15 |
| job003            | this job is           | User001    | -               | -        | Create | module3    | 09-11-15 | 09-11-15 |
|                   |                       |            |                 |          |        |            |          |          |

2. ACME displays Lock\_Info\* recovered from Jobs\*.

AGME - JODS LIST					You are lo	gged as User001
Search Criteria short descrip	created fro	m -	to created by -	type	•	Search
title	modified fr	om -	ACME - Lock Info – 🔸 🗙	ssue		Clear
			Job001's locks:	⊃age 3 of 10 <<	< 1 2 3	4 5 > >>
Short Description	Long Description	Crea	from 13-11-15 17.21 by User002	Module	Created	Modified
✓ job001	description of job001	User		module1	11-03-15	13-03-15
ijob002	-	User	Clear Lock Cancel	module1	23-05-15	27-05-15
job003	this job is	User		module3	09-11-15	09-11-15
	Add		Edit Remove Open	Clear Locks		Back

3. If Security\_Enabled\* is true and the locks on the job are owned by the External User, then the External User selects the locks he wants to clear.

ACME - C	lobs List h Criteria					You are log	<mark> → ×</mark> Iged as User001
sh	ort description	created fro	m -	to created by - t	уре	•	Search
tit	le	modified fro	om -	ACME - Lock Info	ssue		Clear
Short D	escription Lon	g Description	Crea	Job001's locks: Ø from 11-11-15 9:13 by User001 from 13-11-15 17.21 by User002	Page 3 of 10 << Module	< 1 2 3 4 Created	4 5 > >> Modified
job001 job002 job003	des - this	cription of job001 job is	User User User	Clear Lock Cancel	module1 module1 module3	11-03-15 23-05-15 09-11-15	13-03-15 27-05-15 09-11-15
		Add		Edit Remove Open	Clear Locks		Back

### 4. ACME asks for a confirmation

A	CME - Jobs List						_ + ×
						You are	logged as User001
	Search Criteria						
	short descrip	tion created fro	m -	to ACME - Lock Clear		_ + X	Search
	title	modified fr	om -	ACME - Lock You are going to clear the sel Job001's lock Are you sure?	ected locks from	Job001.	Clear
	Short Description	Long Description	Crea	♥ from 1 <sup>-</sup> Yes	No	6	4 5 > >>
V	job001	description of job001	User		module1	11-03-15	13-03-15
	<u>job002</u>	-	User	Clear Lock Cancel	module1	23-05-15	27-05-15
	job003	this job is	User		module3	09-11-15	09-11-15
		Add		Edit Remove Open	Clear Locks		Back

5. The External User confirms the operation.

6. ACME confirms the removal; the selected locks in Jobs\* are removed and Lock\_Info\* is updated.

Search Criteria		ACME - S	Success!		_ + ×			
short descrip	otion created fro	om Job00	1 locks have been	cleared succe	ssfully!	)e	-	Search
title	modified f	rom		< F-g-		ue age 3 of 10 <<	< 1 2 3	Clear 4 5 > >>
Short Description	Long Description	Created By	Title	Issue	Туре	Module	Created	Modified
ob001	description of job001	User001	The Job	-	Open	module1	11-03-15	13-03-15
L000	-	User002	This is a title	an issue	Close	module1	23-05-15	27-05-15
20002		Lleer001	_	-	Create	module3	09-11-15	09-11-15
ob002 ob003	this job is	USEIUUT						
ob002	this job is	Edit	Remove	Оре	en (	Clear Locks		

## Extensions

3a.1. If the locks on the job are by a user different from Unknown User and the External User does not have edit permission, then ACME informs that he cannot clear any job lock. The use case fails.

ACME - Jobs List						_ + X
					You are I	ogged as User001
Search Criteria						
short descri	ption created fro	m -	to ACME - Lock Clear		_ + X	Search
title	modified fr	om -	ACME - Lock Job001's lock	ssions to clear Jol	001 locks!	Clear
			▼ from 1'			4 5 > >>
Short Description	Long Description	Crea	The form 1:			Modified
👿 job001	description of job001	User		module1	11-03-15	13-03-15
job002	-	User	Clear Lock Cancel	module1	23-05-15	27-05-15
job003	this job is	User		module3	09-11-15	09-11-15
	Add		Edit Remove Open	Clear Locks		Back

3b.1. If the locks on the job are by a user different from Unknown User and the External User has edit permission, then the External User selects the locks he wants to clear. The use case continues at step 4.

3c.1. If Security\_Enabled\* is false, then the External User selects the locks he wants to clear. The use case continues at step 4.

5a.1. The External User aborts the operation. The use case fails.

# **Use case: Exit Application**

Goal This use case allows the user to exit from the application by closing the editor

Note The User may have one or more ACME sessions running in separate editors

Level userGoal

Priority 1

Frequency exceptionally

Primary Actor User

Main success scenario

1. The User closes the editor.

2. If there is no job in the editor, then ACME shuts itself down.

#### Extensions

2a.1. If there is a non Dirty Job\* in Jobs\* in the editor, then ACME closes the editor and shuts itself down; any locks of the User from Open Jobs\* is removed.

2b.1. If there is a Dirty Job<sup>\*</sup> in Jobs<sup>\*</sup> in the editor, then ACME informs the User that there is a job that has been modified and asks whether save or not the changes or aborts the operation.

ACME - Main			
Jobs		ACME - Save changes	001
Add Job Open Job List Jobs	ACME - Job 001*	The following jobs have not been saved yet: - job001	
Users	stuff stuff stuff	Do you want to save them before closing the application?	
List Users		Yes No	
Groups		Save Clear Locks Close	
Databases			
List Databases			
Switch Database			
		Exit	

2b.2. The User answers to save the changes.

2b.3. ACME closes the editor and shuts itself down; the Dirty Job<sup>\*</sup> is saved, and any locks of the User from Open Jobs<sup>\*</sup> is removed.

2b.2.a.1. The Users answers not to save the changes.

2b.2.a.2. ACME closes the editor and shuts itself down; any locks of the User from Open Jobs\* is removed. 2b.2.b.1. The User aborts the operation. The use case fails.

# Use Case: Add Database

Goal This use case allows a user to add a ACME database to the list of known databases

### Notes

- Any user can create a new database alias
- · Users do not share database aliases; they are saved on their local computers under their own info
- Database definitions will be stored under the user's home directory on their computer

Level userGoal

# **Priority** 4

Frequency exceptionally

### Primary Actor User

### **Pre-Conditions**

- One or more aliases are in Database Aliases\*
- The list of Database Aliases\* is shown

# Actor User

## Main success scenario

ACME - Databa	ases List			_ + X
				You are logged as User001
	Database name	Server	Owner	
	db1 anotherDB 	myServer server1	User001 User003	
	Add	Edit	Delete	
				Back

1. The User requests to add a new database.

2. ACME prompts the User for the following Database Alias Info\*.

ACME - Add Database		_ + ×
		You are logged as User001
Insert the following dat	abase's info	
name	server path	
		Test Connection
admin id	admin password	
		Add Database Back

3. The User enters Database Alias Info\* and confirms.

ACM	IE - Add Database				+	×
			You are logged a	is Us	ser0	01
	Insert the following database	e's info				
	my new database	myserver	Test Connection	ו		
	root	root				
		[	Add Database B	ack		

4. If Working Database Connection<sup>\*</sup> is true, Database Alias Info<sup>\*</sup> is complete, Database Name<sup>\*</sup> is unique, Database User ID<sup>\*</sup> and Database Password<sup>\*</sup> are valid, then ACME confirms the creation of a new database connection; Database Alias Info<sup>\*</sup> is added in Database Aliases<sup>\*</sup>.

ACME - Add Da	atabase 📃 🕂 🗙
Insert the fo my new da root	You are logged as User001 ACME - Success! The database connectivity has been tested positively and the database has been successfully created. N Ok
	Add Database Back

Extensions

3a.1. The User aborts the operation. The use case fails.

4a.1. If Database Alias Info\* is incomplete, then ACME informs the Administrator of which required fields are missing. The use case fails.

	_ + ×
	You are logged as User001
e's info	
myserver	Test Connection
root	
nation!	Add Database Back
	e's info myserver root mation!

4b.1. If **Database Name\*** is not unique, then ACME informs the Administrator that he must choose a different name. The use case fails.

ACME - Add Database		_ + X
		You are logged as User001
Insert the following databa	se's info	
my new database	myserver	Test Connection
root	root	
Database name is Choose a differen	already in use. 1t one!	Add Database Back

4c.1. If Database User ID\* is not valid, then ACME informs the Administrator that he must choose a different one, and valid id criteria is displayed. The use case fails.

4d.1. If Database Password\* is not valid, then ACME informs the Administrator that he must choose a different one, and valid password criteria is displayed. The use case fails.

4e.1. If Working Database Connection<sup>\*</sup> is false, then ACME informs the Administrator that the connection has not been set properly. The use case fails.

ACME - Add Database		_ + X
		You are logged as User001
Insert the following data	base's info	
my new database	myserver	Test Connection
root	root	
Database conr working!	ection is not	Add Database Back
working!		Add Database Back

Post-Conditions An alias for a new database connection is created and stored.

# **Use Case: Delete Database**

Goal This use case allows to delete a database alias

Level userGoal

Priority 4

Frequency exceptionally

Primary Actor User

Pre-Conditions One or more aliases are in Database Aliases\*, and the list of Database Aliases\* is shown

### Main success scenario

ACME - Databa	ases List			_ + X
			n n	/ou are logged as User001
	Databasa nama	Sonior	Oumor	
	db1	myServer	User001	
	anotherDB	server1	User003	
	Add	Edit	Delete	
				Back

1. The User requests to delete a database.

2. If the User has the rights to delete the selected database, then ACME asks the User for a confirmation.

ACME - Databases L	st	_ + X
		You are logged as User001
	ACME - Delete Database	
Databa v db1 anothe ····	Are you sure you want to delete "db1" database from the system? Ok Cancel	
	Add Edit Delete	
		Back

- 3. The User confirms the intention to delete the selected database.
- 4. ACME informs of the deletion; Database Alias Info\* is removed from Database Aliases\*

ACME - Databa	ases List		_ + X
			You are logged as User001
			ACME - Success!
	Database name anotherDB 	Server server1	The database "db1" has been successfully removed from the system!
	Add		Edit Delete Back

## Extensions

2a.1 If the User has not the rights to delete the selected database, then ACME informs that he cannot delete the selected database. The use case fails.

ACME - Databas	ses Li	st	-	+ X		
		You a	re logged as User	001		
		ACME - Delete Database	_ + ×			
	Databa	You do not have the rights to delete the selected database!				
	anothe 	Ok				
L		Add Edit Delete				
			Back	]		

3a.1. The User aborts the operation. The use case fails.

# Use Case: Edit Database

This use case describes the process of editing a ACME database alias.

Level userGoal

**Priority** 4

Frequency exceptionally

Primary Actor User

Pre-Conditions One or more aliases are in Database Aliases\*, the list of Database Aliases\* is shown

# Main success scenario

ACME - Databa	ases List			_ + X
				You are logged as User001
	Database name	Server	Owner	
	db1 anotherDB	myServer server1	User001 User003	
	Add	Edit	Delete	
				Back

1. The User requests to edit a database.

ACME - Databa	ases List			_ + X
				You are logged as User001
	Database name	Server	Owner	
	db1	myServer	User001	
		Server	0361005	
	Add	Edit	Delete	
	Add	Luit	Delete	
				Back

2. ACME displays the Database Alias  $\mathsf{Info}^*$  for the selected database.

ACME - Edit Database		_ + ×
		You are logged as User001
You are editing "db1" o	latabase	
db1	myServer	Test Convertion
root	****	Test Connection
		Save Changes Back

3. The User makes changes to Database Alias Info\* and confirms.

ACME - Edit Database		_ + X
		You are logged as User001
You are editing "db1" d	atabase	
dbONE	myServer1	
admin	****	Test Connection
		Save Changes Back

4. If Working Database Connection\* is true, Database Alias Info\* is complete, Database Name\* is unique, Database User ID\* and Database Password\* are valid, then ACME informs that the database has been updated; Database Alias Info\* for that database alias is updated.

		ACME - Suc	cess!	_ + ×	
ACME - Databases List		The database "db1" has been successfully updated!			
	Database name dbONE anotherDB 	Server myServer1 server1	Owner User001 User003		
	Add	Edit	Delete	Back	

#### Extensions

3a.1. The User aborts the operation. The use case fails.

4a.1 If Database Alias Info\* is incomplete, then ACME informs the Administrator of which required fields are missing. The use case fails.

ACM	IE - Edit Database				÷	×
			You are logged a	is U	ser0	01
	You are editing "db1" databa	se				
	dbONE	myServer1	Test Connection	ר		
	1	****	Test Connection	J		
	Some data is missin	g!	Save Changes B	ack		

4b.1 If Database Name\* is not unique, then ACME informs the Administrator that he must choose a different name. The use case fails.

4c.1 If Database User ID\* is not valid, then ACME informs the Administrator that he must choose a different one, and valid id criteria is displayed. The use case fails.

4d.1 If Database Password\* is not valid, then ACME informs the Administrator that he must choose a different one, and valid password criteria is displayed. The use case fails.

4e.1 If Working Database Connection\* is false, then ACME informs the Administrator that the connection has not been set properly. The use case fails

# **Use Case: List Known Databases**

Goal This use case allows a user to list the known database aliases.

Level userGoal

**Priority** 4

Frequency exceptionally

Primary Actor User

## Main success scenario

1. The User requests to list all the known databases.

2. ACME displays all Database Aliases<sup>\*</sup>, including the server where the database is installed and the options to manage them according to their CRUD permissions.

ACME - Databa	ases List			_ + ×
			Yo	u are logged as User001
	Database name	Server	Owner	
	db1 anotherDB	myServer server1	User001 User003	
	Add	Edit	Delete	
				Back

Post-Conditions The list of Database Aliases\* is shown.

# Use Case: Switch Database

Goal This use case allows a user to change the current database.

Level userGoal

**Priority** 4

Frequency exceptionally

Primary Actor User

### Main success scenario

1. The User requests to switch to a different database from the current one.

# 2. ACME displays Database Aliases\*.

ACME - Databa	ases List				_ + ×
	Select the database	you want to use:		You are	logged as User001
	Database name	Server	Owner		
	Default db1 anotherDB 	default server myServer server1	Administrator User001 User003		
	[	Switch Databas	e		
					Back

3. The User selects a database he would like to connect to.

ACME - Databa	ases List			_ + X	
				You are logged as User001	
	Database name	Server	Owner		
	Default db1 anotherDB	default server myServer server1	Administrator User001 User003		
Switch Database					
				Back	

4. If no error is encountered while connecting the User to the database, then ACME connects the User to the desired database and informs about the database change.

ACME - Databases List	_ + X
Select the databas	You are logged as User001 ACME - Database Switch
Database name Default db1 anotherDB	Database has been changed successfully! You are now connected to db1 database! Ok
[	Switch Database Back

## Extensions

4a.1. If an error is encountered while connecting the User to the database, then ACME displays an error message to the User. The use case fails

ACME - Databases List	_ + ×
Select the databas Database name Default db1 anotherDB   Switch Database	s User001 ack

# Glossary

# Data Entry

Access Level: the access level to ACME Functional Areas\*. It can be *hidden* for a not accessible functional area, *view* for a read-only one, and *edit* for read-write permissions

Functional Areas: functionalities or actions or operations whose access may be different for different groups of users

Group Info:

- Group Name\*
- a total mapping from Functional Areas\* into Access Level\*

The special group Administrator has specific access levels (they should be edit for every one), whereas the special group Unknown Group has full access to all functional areas other than User and Group management.

Group Name: Valid group names are identifiers built out of A-Z, a-z, 0-9, \_, -, and blank spaces, long up to 32 characters, that begin with a character or number.

Lock\_Info: locking user identity (or name) and lock date/time

Job\_Info:

- Short Job Description (\*)
- Customer name (\*)
- Long job description
- Title
- Issue
- "date created" and "date modified"
- the "last maintained by" information:
- Job type (Unplanned)
- Modules not further detailed, each one may be optionally locked, i.e. it may have associated a Lock\_Info\*
- Lock (optional) of type Lock\_Info\* (a job is locked iff this field is not undefined)

Job List: the list of all Job\_Info\*

Dirty Job: a job is dirty iff it is in a "dirty" state (i.e., the Job Characteristics have been changed)

Password: The passwords can be up to 20 characters, can contain any ASCII character and are not case sensitive

Search Criteria: the information given by a user to ACME to find some jobs

- Short Job Description
- Created from/to
- Modified from/to
- Created By
- Type
- Title
- Issue
- Module

User\_Info: (the parts marked by \* are optional)

- Username (Username\*)
- Password (Password\*)
- GroupId, the identity of the group that the user is assigned

- First name (\*)
- Middle Initial (\*)
- Last name (\*)

Username: Valid user names are unique identifiers built out of A-Z, a-z, 0-9, \_, -, and blank spaces, long up to 20 characters, that begin with a character or number. Username are not case sensitive.

Database alias info:

- Database name/alias (Database Name\*)
- Server/system where the database is installed
- Database user id (Database User ID\*)
- Database password (Database Password\*)

Database Name: Valid database name are unique identifiers built out of A-Z, a-z, 0-9, \_, -, and blank spaces, long up to 20 characters, that begin with a character or number. Username are not case sensitive.

Database Password: The database passwords can be up to 20 characters, can contain any ASCII character and are not case sensitive

Database User ID: Valid user ID are unique identifiers built out of A-Z, a-z, 0-9, \_, -, and blank spaces, long up to 20 characters, that begin with a character or number. User ID are not case sensitive.

# System (Abstract State)

Administrator\_Logged: (true or false). There can be more users with administrator power but just one logged at the same time.

Groups: "all the existing groups", a mapping from GroupId (not further specified) into Group Info\*. It always contains at least two groups, named "Administrator" and "Unknown"

Logged Users: (the set of the identities of the users UserId currently logged)

Upgraded User: of type UserId it may be undefined (the user that is now currently logged as administrator)

Jobs: "all the existing jobs" characterized by Job\_Info\*

Open Jobs: the identities of the jobs currently open (with opening data/time and user that has opened the job)

Open In Editor: of type JobId it may be undefined, the identity of the job open in the current editor

Security\_Enabled: (true or false)

Users: "all existing users" a mapping from UserId (not further specified) into User\_Info\*. Users always contains at least the users "Unknown User" and "Administrator", and cannot contain two users with the same name.

Database Aliases: list of database aliases

Working Database Connection: (true or false) based on Database alias info\*

Delete permission:

1. With Security\_Enabled\* false all users have "Delete Job" permission

2. With Security\_Enabled\* true, certain users will have "Delete Job" permission. Those users can delete jobs:

- Created by themselves
- Created by default users such as Margaret, Ralph, etc.
- Created by "Unknown User"