
Storm Cloud Development

Project CM
UC: Manage mail accounts

Version 1.2

Project CM	Version: 1.2
UC: Manage mail accounts	Date: 19/Jun/2014

Revision History

Date	Version	Description	Author
17/Oct/2013	1.0	Initial UC description	Storm Cloud Development
22/Oct/2013	1.1	Updated diagrams Inserted selenium code Added Mockups	Storm Cloud Development
19/Jun/2014	1.2	Inserted function points Updated selenium Updated stored data	Storm Cloud Develepment

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UC: Manage mail accounts

1. Use-Case manage mail accounts

1.1 Brief Description

This use case describes how a user can manage his mail accounts. This means not to provide him a mail account, but to let him administrate the mail accounts he wants to access with the application. He can create (add), read, update and delete mail accounts (CRUD).

1.2 Stored data

1.2.1 Overview

Name	Auto-assigned	Unique	Mandatory	Modifiable
Id	Yes	Yes	Yes	No
Sender Name	No	No	No	Yes
Email	No	Yes	Yes	No
Password	No	No	No	Yes
Retrieve Host	No	No	Yes	Yes
Retrieve Port	No	No	Yes	Yes
Retrieve SSL	No	No	Yes	Yes
Retrieve Authentication	No	No	Yes	Yes
Send Host	No	No	Yes	Yes
Send Port	No	No	Yes	Yes
Send SSL	No	No	Yes	Yes
Send Authentication	No	No	Yes	Yes
Logon Name	No	No	No	Yes

1.2.2 Description

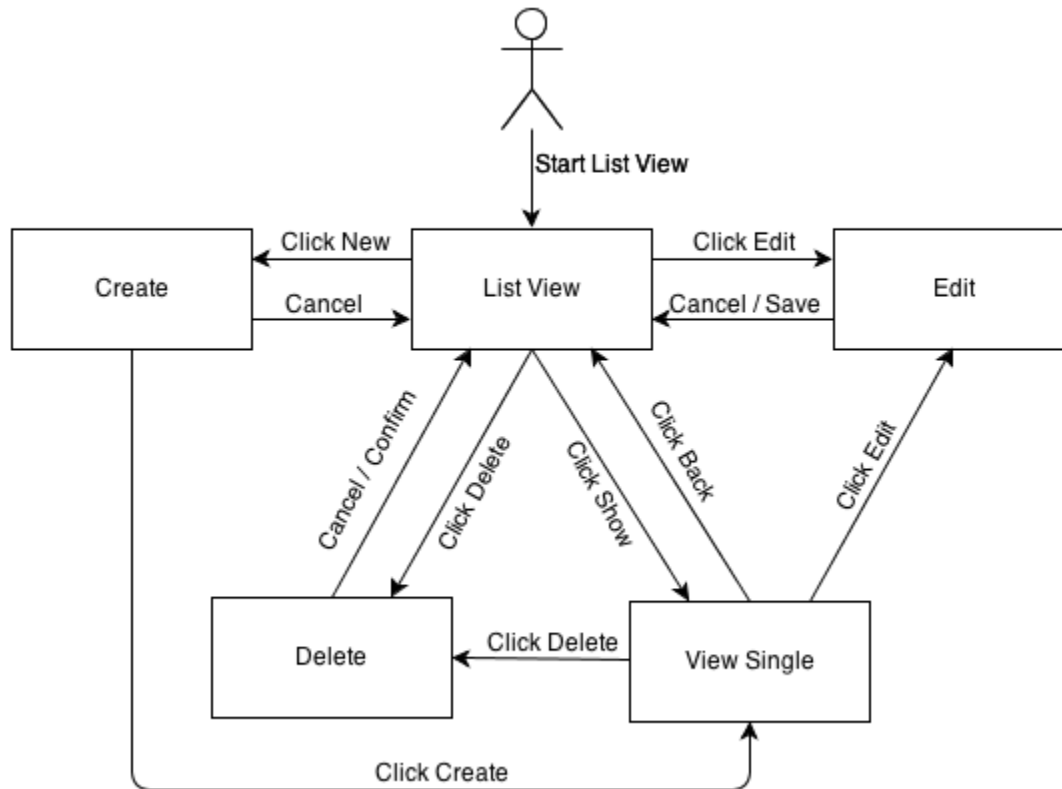
A mail account has several data which must be stored. First of all you need an email address where you want to receive / send mails with. Also you need a logon name and a password to logon. Both of those are obligatory when creating the account. If the user does not provide a logon name, his email address is used and without a stored password he will be asked for his password every time it is needed. Also the user has a sender name which is shown to others when he sends a mail. This is also obligatory and is replaced by the email if not provided by the user. Mandatory information is the host and security data for sending and retrieving mails. The

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host data is the Host name and Port and security information are the SSL type to connect with and the authentication type (password, encrypted password).

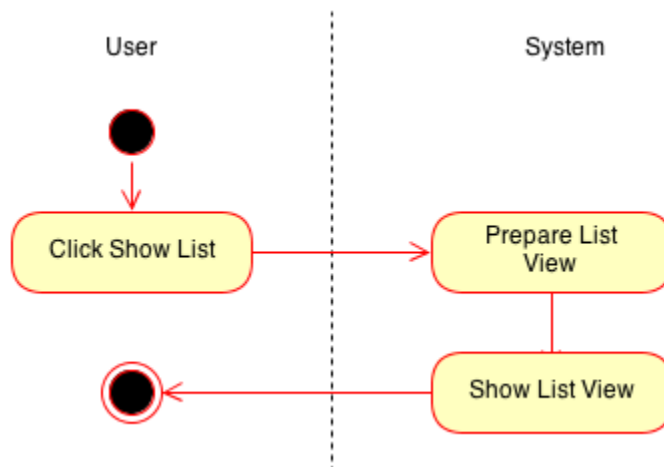
2. Flow of Events

2.1 Screen Flow



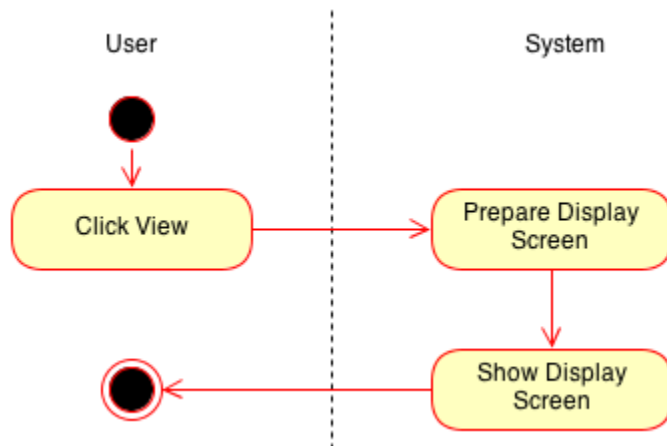
2.2 Use Case Flows

2.2.1 Show all mail accounts (List View)



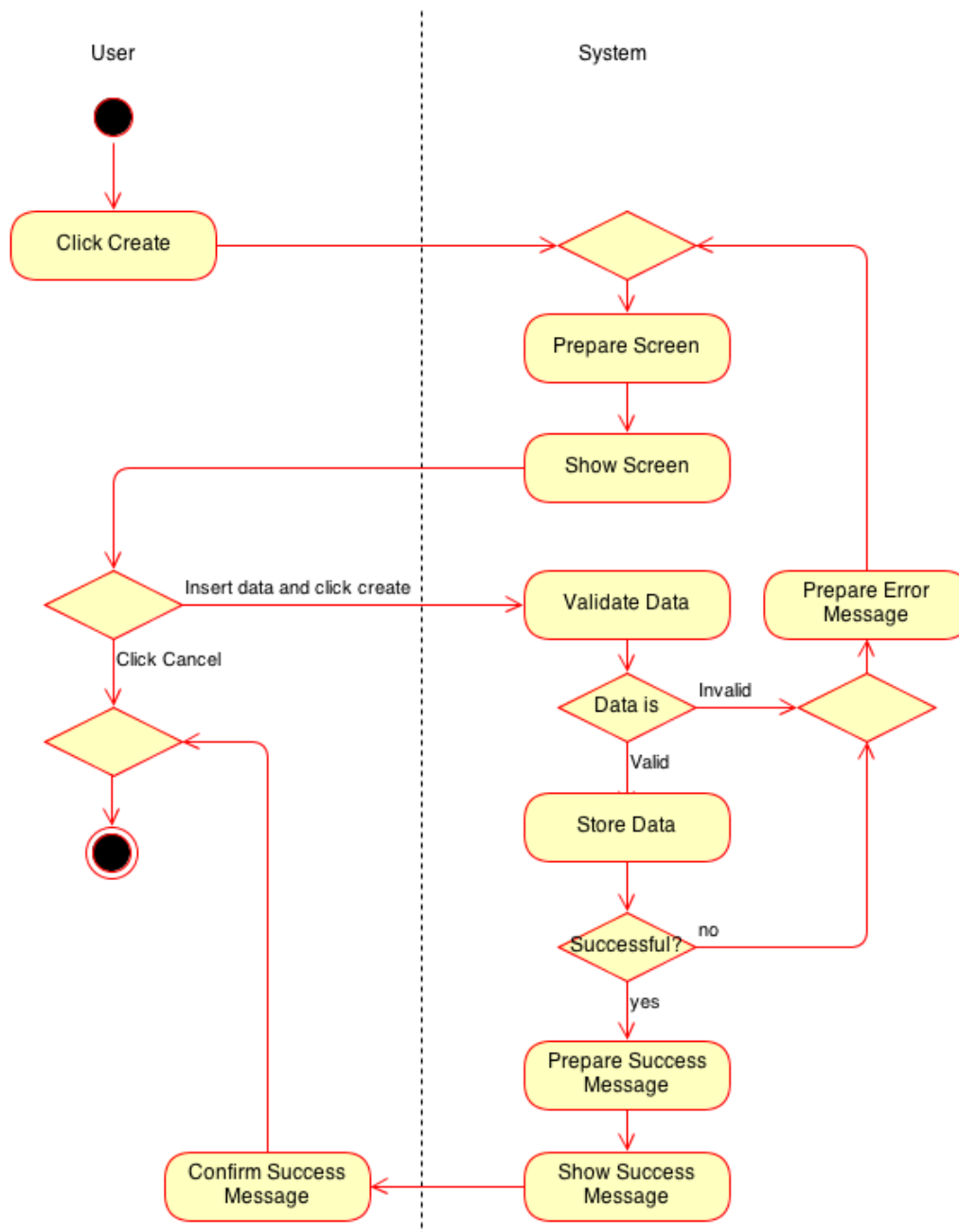
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2.2.2 Show single mail account (View Single)



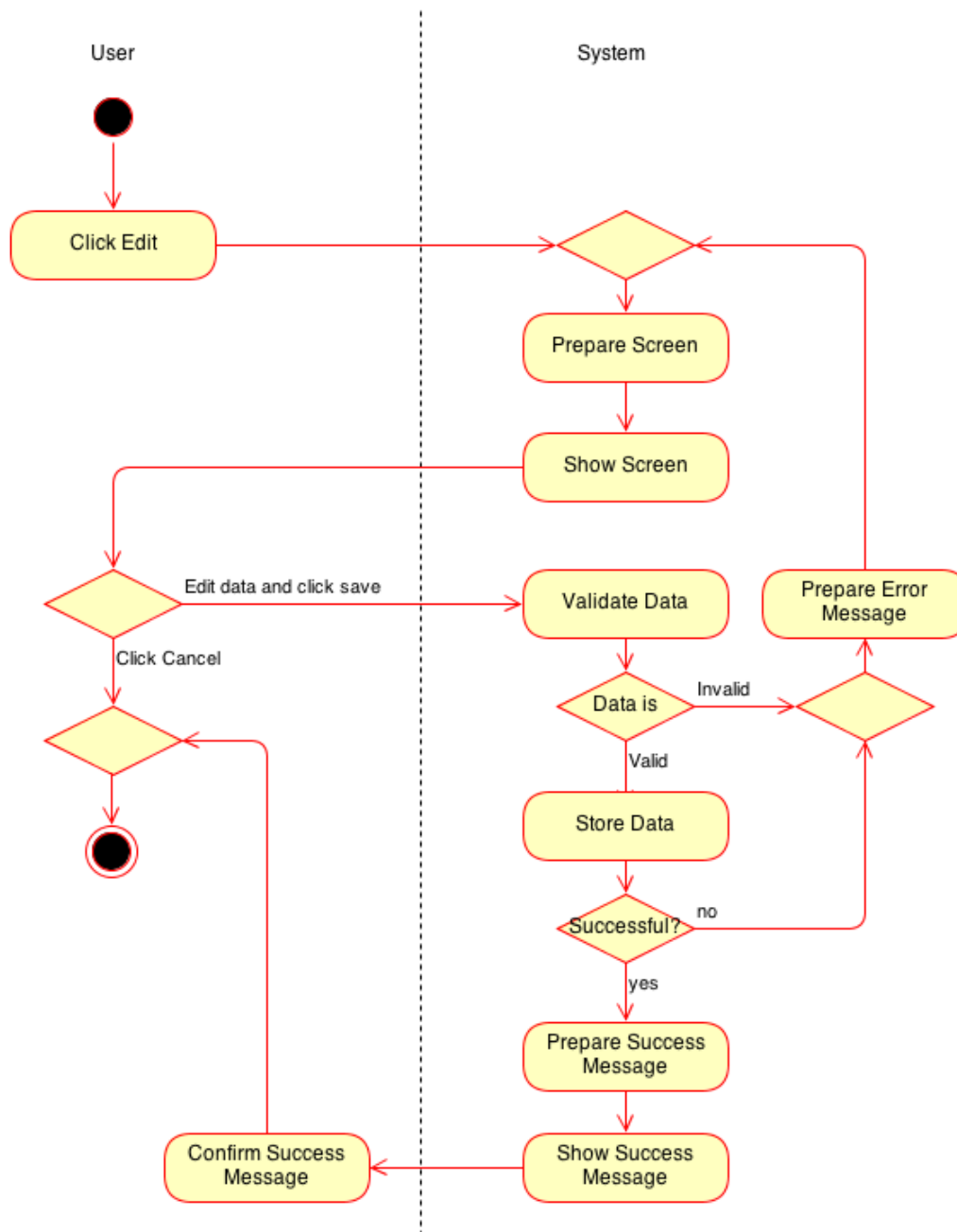
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2.2.3 Create new mail account (Create)



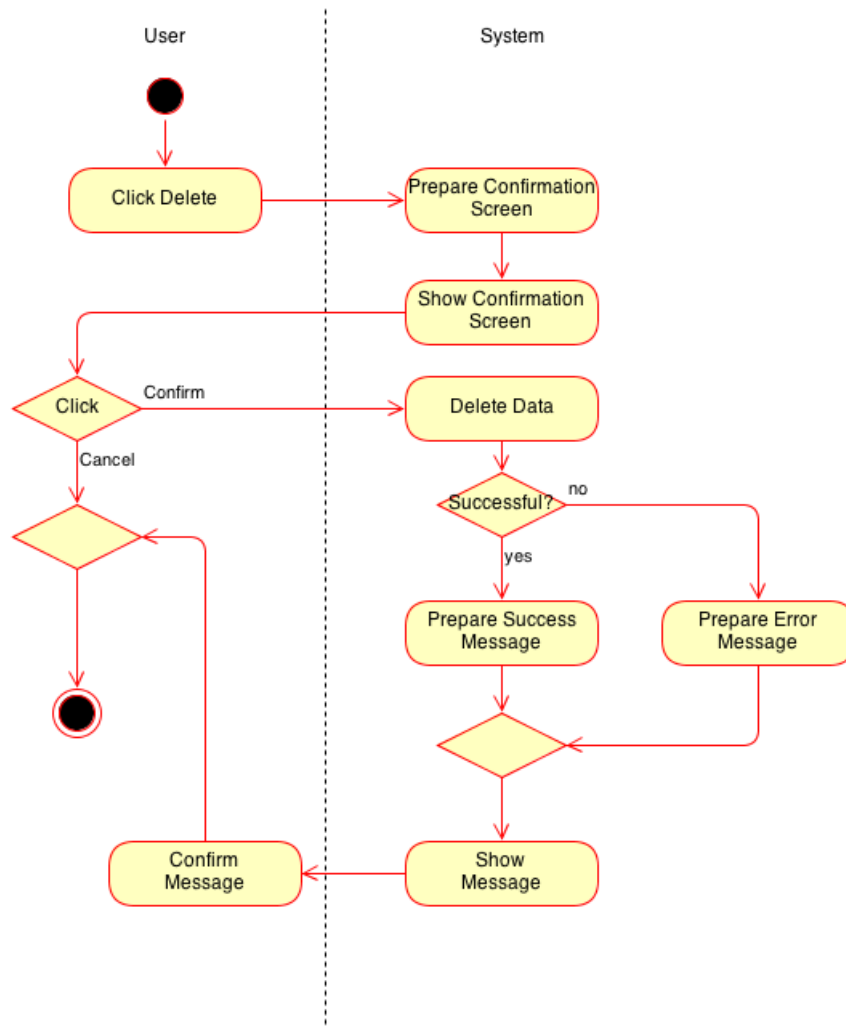
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2.2.4 Edit mail account (Edit)



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2.2.5 Delete mail account (Delete)



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3. Special Requirements

n/a

4. Preconditions

4.1 Rights

View/edit/delete/create: The user must have the rights to do the operation

4.2 Account

Create: The email address must exist.

Create/edit: The login data must be right to use the application properly.

5. Postconditions

5.1 Account

Create/edit: The new account is successfully added / updated.

Create/edit: The user gets a verification mail to activate his account for usage.

6. Extension Points

n/a

7. Selenium test scenario

Scenario 1: create new mail account

```

Given I am logged in
    And I am on the "mail account list"
    And I clicked "add mail account"
When I type in the correct mail account data
    And I click "add"
Then the mail account should be created

```

Scenario 2: delete mail account

```

Given I am logged in
    And I am on the "mail account list"
    And I clicked "delete mail account"
When I confirm the deletion
Then the mail account should be deleted

```

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8. Mockups

8.1 Show all mail accounts

project-cm mail account

https://project-cm.com/mailaccount

Mail Accounts New

Sender Name	Email	Logon Name	View	Edit	Delete
Andreas Haberl	andreas@test.com	andreash	View	Edit	Delete
Andreas	andi@test.de	andi123	View	Edit	Delete
Synonym	synonym@test2.com	synpp321	View	Edit	Delete

8.2 Show single mail account

project-cm - mail account view

https://project-cm.com/mailaccount/view

Mail account - View

Sender Name
Sender Name

Email
email@test.com

Logon Name
emailname

Password
oooooooooooooooo

Retrieve Type Retrieve Host Retrieve Port SSL Authentication Type

IMAP POP3 IMAP imap.server.co 993 ☒ Password (cleartype) Password (cleartype) Password (encrypted)

Send Host Send Port SSL Authentication Type

smtp.server.co 587 ☒ Password (cleartype) Password (cleartype) Password (encrypted)

Back

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8.3 Create new mail account

8.3.1 Insert data view

project-cm - mail account new

https://project-cm.com/mailaccount/new

Mail account - New

Sender Name
Sender Name

Email
email@test.com

Logon Name
emailname

Password
oooooooooooo

Retrieve Type Retrieve Host Retrieve Port SSL Authentication Type

IMAP POP3 IMAP imap.server.co 993 ☒ Password (cleartype) Password (cleartype) Password (encrypted)

Send Host Send Port SSL Authentication Type

smtp.server.co 587 ☒ Password (cleartype) Password (cleartype) Password (encrypted)

Create Cancel

8.3.2 Error: Data not correct

project-cm - mail account new

https://project-cm.com/mailaccount/new

Please insert all required data correctly

Mail account - New

Sender Name
Sender Name

Email
email@test

Logon Name
emailname

Password
oooooooooooo

Retrieve Type Retrieve Host Retrieve Port SSL Authentication Type

IMAP POP3 IMAP imap.server.co 993 ☒ Password (cleartype) Password (cleartype) Password (encrypted)

Send Host Send Port SSL Authentication Type

smtp.server.co 587 ☒ Password (cleartype) Password (cleartype) Password (encrypted)

Create Cancel

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8.3.3 Data save failed

project-cm - mail account new

https://project-cm.com/mailaccount/new

internal error, failed to save data - please try again

Mail account - New

Sender Name
Sender Name

Email
email@test.com

Logon Name
emailname

Password
oooooooooooo

Retrieve Type: IMAP (selected), POP3, IMAP

Retrieve Host: imap.server.co

Retrieve Port: 993

SSL: ☒

Authentication Type: Password (cleartype) (selected), Password (cleartype), Password (encrypted)

Send Host: smtp.server.co

Send Port: 587

SSL: ☒

Authentication Type: Password (cleartype) (selected), Password (cleartype), Password (encrypted)

Create Cancel

8.3.4 Success: Data stored

project-cm - mail account view

https://project-cm.com/mailaccount/view

New entry successfully created

Mail account - View

Sender Name
Sender Name

Email
email@test.com

Logon Name
emailname

Password
oooooooooooo

Retrieve Type: IMAP (selected), POP3, IMAP

Retrieve Host: imap.server.co

Retrieve Port: 993

SSL: ☒

Authentication Type: Password (cleartype) (selected), Password (cleartype), Password (encrypted)

Send Host: smtp.server.co

Send Port: 587

SSL: ☒

Authentication Type: Password (cleartype) (selected), Password (cleartype), Password (encrypted)

Back

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8.4 Edit mail account

8.4.1 Insert data view

project-cm - mail account edit

https://project-cm.com/mailaccount/edit

Mail account - Edit

Sender Name
Sender Name

Email
email@test.com

Logon Name
emailname

Password
oooooooooooo

Retrieve Type Retrieve Host Retrieve Port SSL Authentication Type

IMAP POP3 IMAP imap.server.co 993 ☒ Password (cleartype) Password (cleartype) Password (encrypted)

Send Host Send Port SSL Authentication Type

smtp.server.co 587 ☒ Password (cleartype) Password (cleartype) Password (encrypted)

Save Cancel

8.4.2 Error: Data not correct

project-cm - mail account edit

https://project-cm.com/mailaccount/edit

Please insert all required data correctly

Mail account - Edit

Sender Name
Sender Name

Email
email@test

Logon Name
emailname

Password
oooooooooooo

Retrieve Type Retrieve Host Retrieve Port SSL Authentication Type

IMAP POP3 IMAP imap.server.co 993 ☒ Password (cleartype) Password (cleartype) Password (encrypted)

Send Host Send Port SSL Authentication Type

smtp.server.co 587 ☒ Password (cleartype) Password (cleartype) Password (encrypted)

Save Cancel

8.4.3 Error: Data save failed

project-cm - mail account edit

https://project-cm.com/mailaccount/edit

internal error, failed to save data - please try again

Mail account - Edit

Sender Name
Sender Name

Email
email@test.com

Logon Name
emailname

Password
oooooooooooo

Retrieve Type: IMAP, POP3, IMAP
Retrieve Host: imap.server.co
Retrieve Port: 993
SSL: ☒
Authentication Type: Password (cleartype), Password (cleartype), Password (encrypted)

Send Host: smtp.server.co
Send Port: 587
SSL: ☒
Authentication Type: Password (cleartype), Password (cleartype), Password (encrypted)

Save Cancel

8.4.4 Success: Data stored

project-cm mail accounts

https://project-cm.com/mailaccount

data edited successfully

Mail Accounts New

Sender Name	Email	Logon Name			
Andreas Haberl	andreas@test.com	andreash	View	Edit	Delete
Andreas	andi@test.de	andi123	View	Edit	Delete
Synonym	synonym@test2.com	synpp321	View	Edit	Delete

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8.5 Delete mail account

8.5.1 Confirm view

project-cm - mail account delete

https://project-cm.com/mailaccount/delete

Mail Account - delete

Do you really want to delete mail account "Account name" ?

8.5.2 Error: Deletion failed

project-cm mail account

https://project-cm.com/mailaccount

internal error - failed to delete data

Mail Accounts

Sender Name	Email	Logon Name	View	Edit	Delete
Andreas Haberl	andreas@test.com	andreash	<input type="button" value="View"/>	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
Andreas	andi@test.de	andi123	<input type="button" value="View"/>	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
Synonym	synonym@test2.com	synpp321	<input type="button" value="View"/>	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>

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8.5.3 Success: Data deleted

The screenshot shows a web browser window with the address bar displaying 'https://project-cm.com/mailaccount'. The page title is 'project-cm mail accounts'. A green banner at the top of the content area reads 'data deleted successfully'. Below this, the heading 'Mail Accounts' is followed by a 'New' button. A table with three columns: 'Sender Name', 'Email', and 'Logon Name'. Each row in the table has three buttons: 'View', 'Edit', and 'Delete'.

Sender Name	Email	Logon Name	View	Edit	Delete
Andreas Haberl	andreas@test.com	andreash	View	Edit	Delete
Andreas	andi@test.de	andi123	View	Edit	Delete
Synonym	synonym@test2.com	synpp321	View	Edit	Delete

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9. Function Points

Below you can see the function point calculation for this use case.

	Manage Mail Accounts	
Domain Characteristic Table		
Number of User Input	13	Simple
Number of User Outputs	4	Simple
Number of User Inquiries	5	Simple
Number of Files	3	Simple
Number of External Interfaces	1	Simple
Complexity Adjustment Table		
Does the system require reliable backup and recovery?	4	
Are data communications required?	3	
Are there distributed processing functions?	0	
Is performance critical?	1	
Will the system run in an existing, heavily utilized operational environment?	0	
Does the system require on-line data entry?	5	
Does the on-line data entry require the input transaction to be built over multiple screens or operations?	5	
Are the master files updated on-line?	1	
Are the inputs, outputs, files or inquiries complex?	3	
Is the internal processing complex?	2	
Is the code to be designed reusable?	5	
Are conversion and installation included in the design?	0	
Is the system designed for multiple installations in different organizations?	2	
Is the application designed to facilitate change and ease of use by the user?	0	
Function Points	60,4	