

Akonadi Models and Proxies: Tips Tricks and Hacks

Stephen Kelly, KDAB

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Model View concept

Features of Akonadi Model View

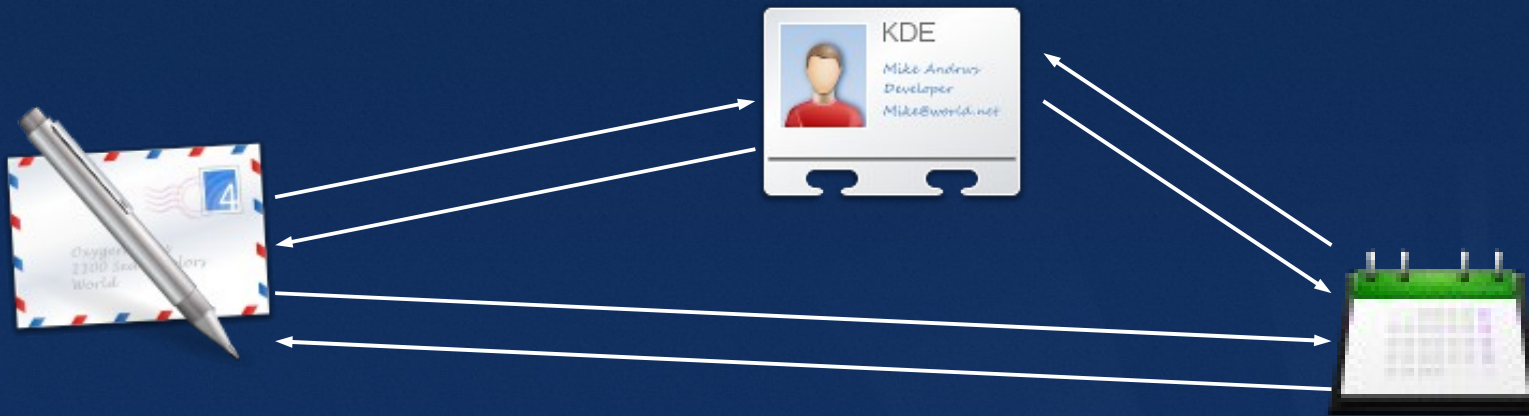
Key challenges faced

Reuse and testing

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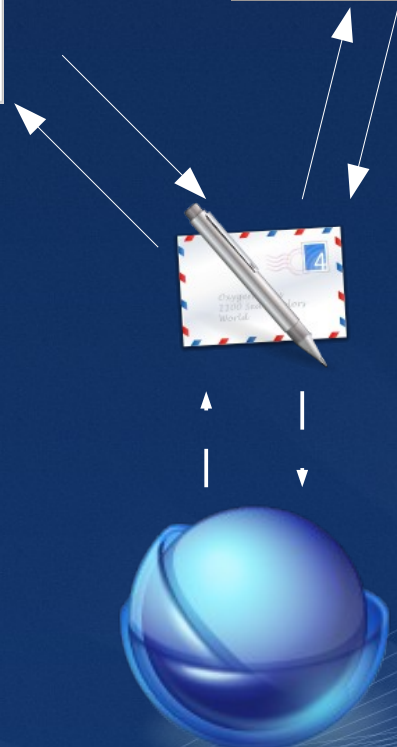
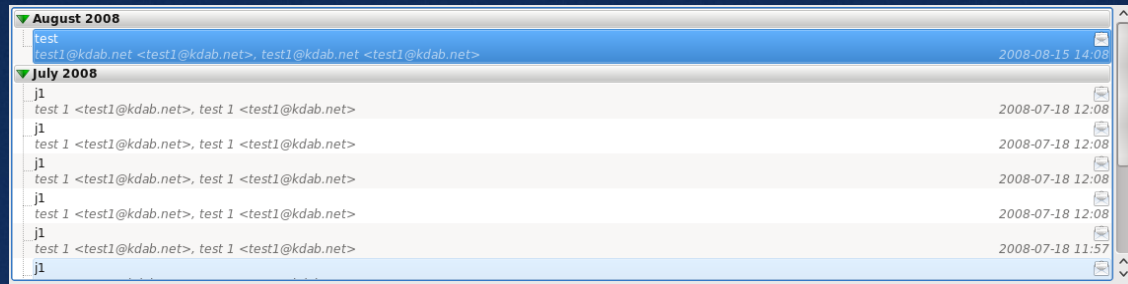
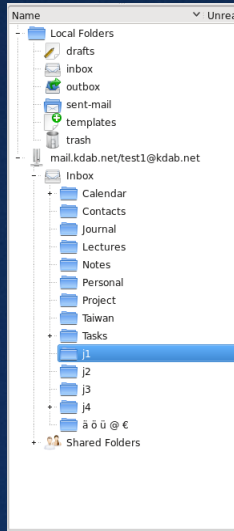
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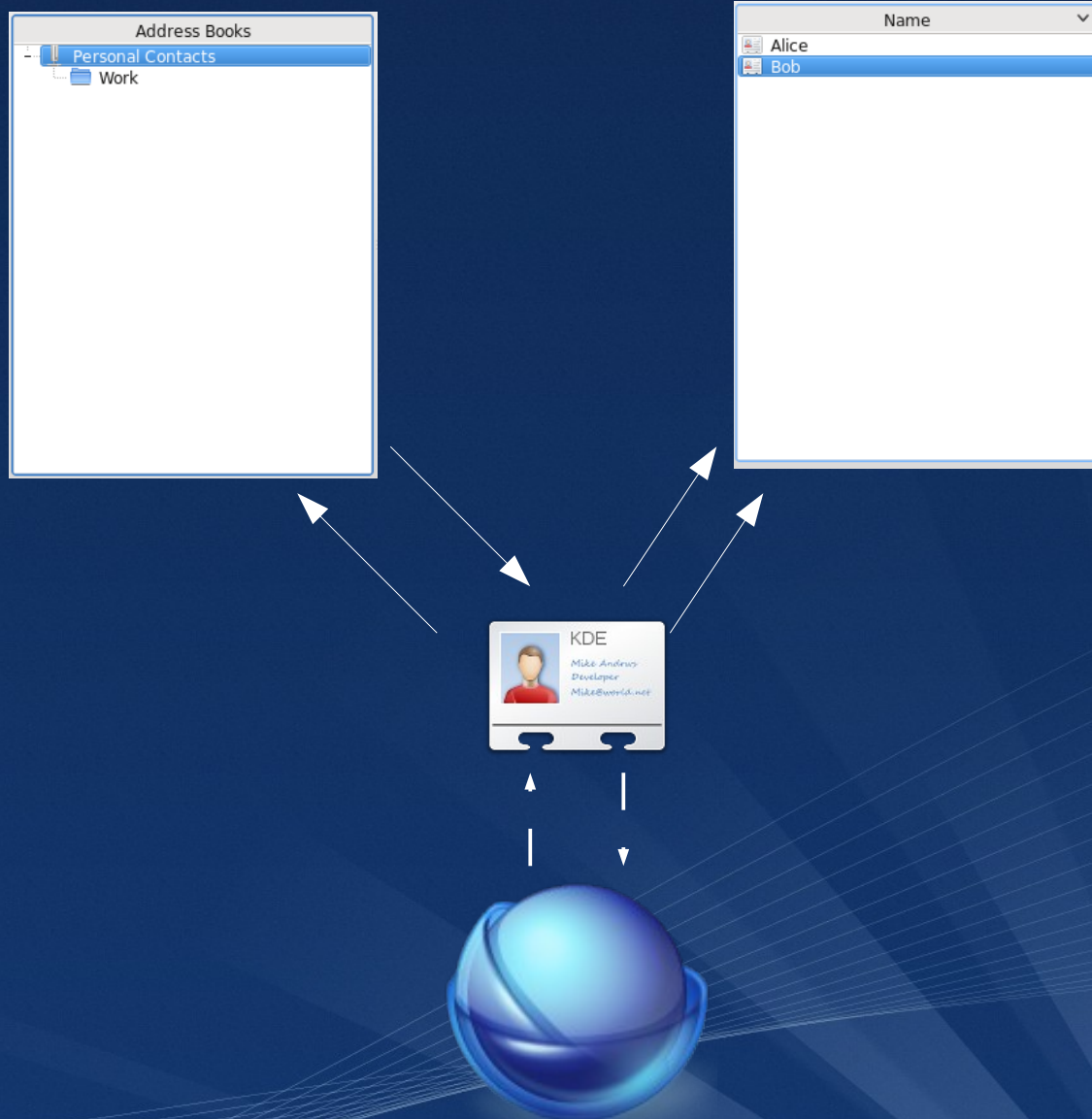
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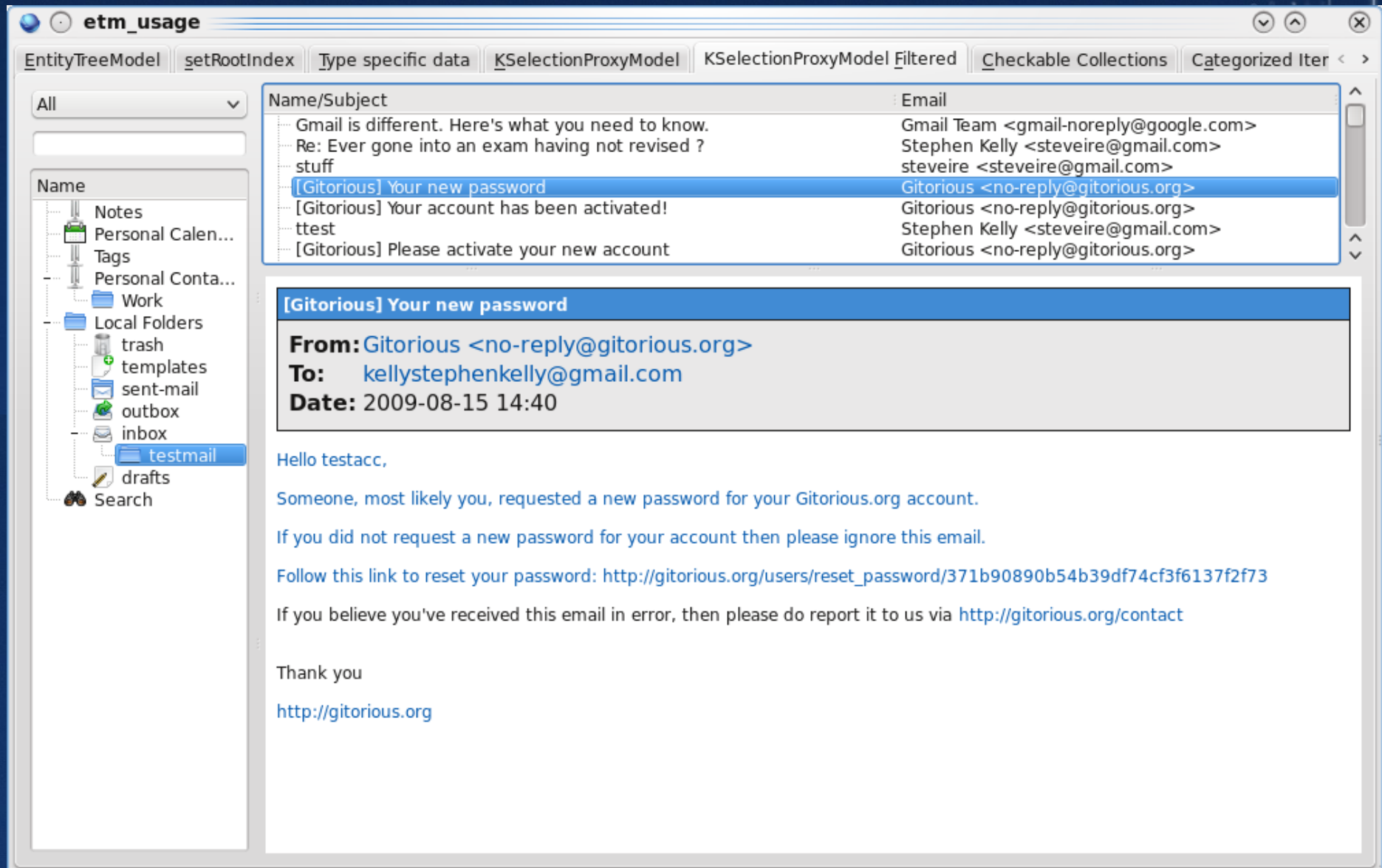
Demo

Summary

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The screenshot shows the Akonadi email client interface. The window title is "etm_usage". The top menu bar includes "EntityTreeModel", "setRootIndex", "Type specific data", "KSelectionProxyModel", "KSelectionProxyModel Filtered", "Checkable Collections", and "Categorized Iter".

The left sidebar shows a tree view of folders and tags. The "testmail" folder is selected. The main pane displays a list of emails with columns for "Name/Subject" and "Email". The selected email is "[Gitorious] Your new password" from "Gitorious <no-reply@gitorious.org>".

The detailed view of the selected email shows the following information:

[Gitorious] Your new password

From: Gitorious <no-reply@gitorious.org>
To: kellystephenkelly@gmail.com
Date: 2009-08-15 14:40

Hello testacc,

Someone, most likely you, requested a new password for your Gitorious.org account.

If you did not request a new password for your account then please ignore this email.

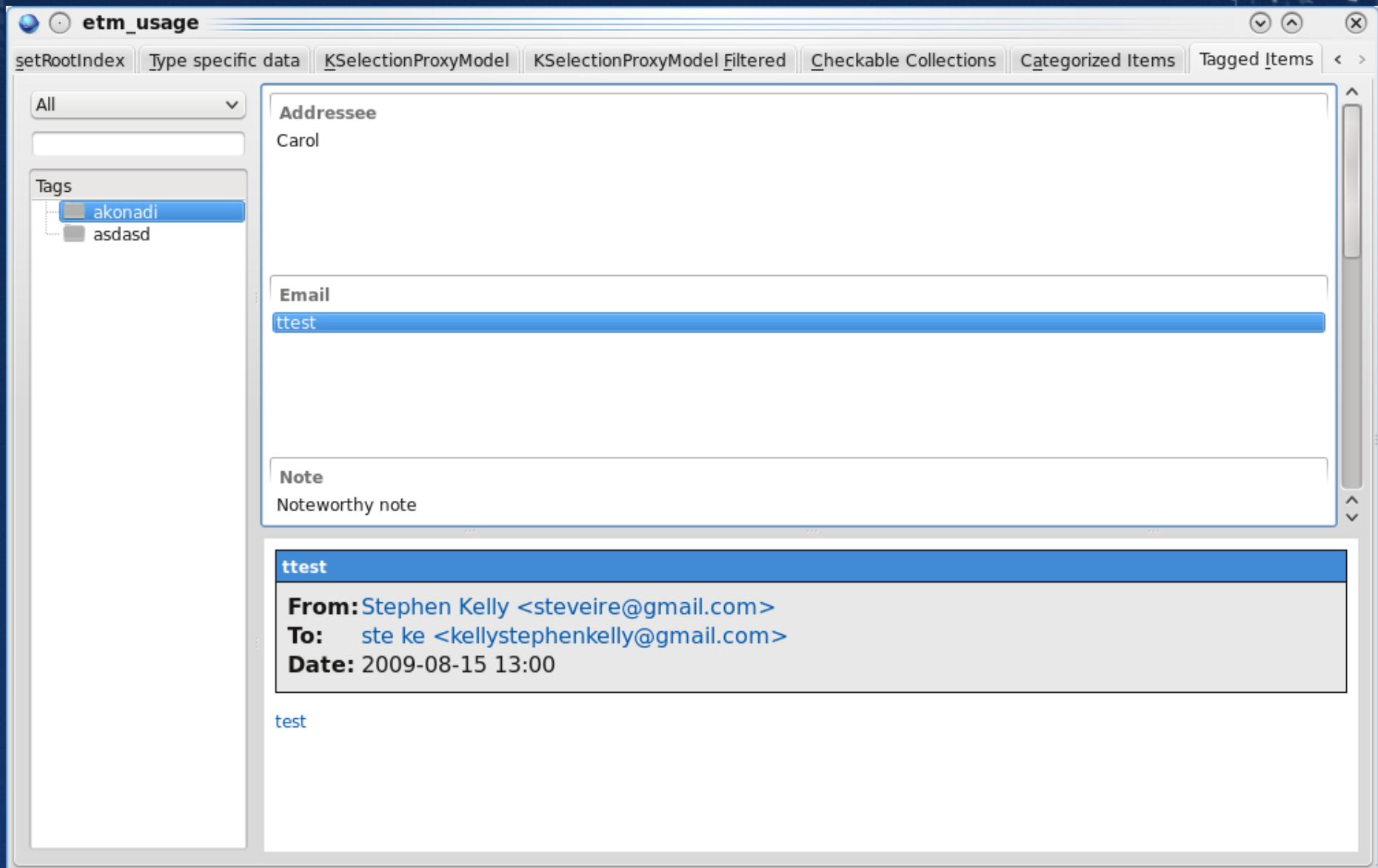
Follow this link to reset your password: http://gitorious.org/users/reset_password/371b90890b54b39df74cf3f6137f2f73

If you believe you've received this email in error, then please do report it to us via <http://gitorious.org/contact>

Thank you

<http://gitorious.org>

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The screenshot shows a window titled "etm_usage" with a toolbar containing buttons for "setRootIndex", "Type specific data", "KSelectionProxyModel", "KSelectionProxyModel Filtered", "Checkable Collections", "Categorized Items", and "Tagged Items".

On the left side, there is a sidebar with a "Tags" section containing two items: "akonadi" (selected) and "asdasd".

The main content area displays an email interface with the following fields:

- Addressee:** Carol
- Email:** ttest
- Note:** Noteworthy note

Below the note field, there is a header for the email body: "ttest". The email body content is:

From: Stephen Kelly <steveire@gmail.com>
To: ste ke <kellystephenkelly@gmail.com>
Date: 2009-08-15 13:00

The email body text is "test".

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```
***** Start testing of SelectionProxyModelTest *****
Config: Using QTest library 4.6.1, Qt 4.6.1
PASS : SelectionProxyModelTest::initTestCase()
PASS : SelectionProxyModelTest::testEmptyModel()
PASS : SelectionProxyModelTest::testSourceReset()
PASS : SelectionProxyModelTest::testDestroyModel()
PASS : SelectionProxyModelTest::testInsertWhenEmpty()
PASS : SelectionProxyModelTest::testInsertInRoot()
PASS : SelectionProxyModelTest::testInsertInTopLevel()
PASS : SelectionProxyModelTest::testInsertInSecondLevel()
PASS : SelectionProxyModelTest::cleanupTestCase()
Totals: 9 passed, 0 failed, 0 skipped
***** Finished testing of SelectionProxyModelTest *****

Running "SelectionProxyModelTest" 3 :
Source Model:      DynamicTree
Persistence:      LazyPersistence
FilterBehavior:   KSelectionProxyModel::SubTreeRoots
SelectionStrategy: NoSelectionStrategy

***** Start testing of SelectionProxyModelTest *****
Config: Using QTest library 4.6.1, Qt 4.6.1
PASS : SelectionProxyModelTest::initTestCase()
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Source Model:      DynamicTree
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FilterBehavior:   KSelectionProxyModel::SubTrees
SelectionStrategy: NoSelectionStrategy

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PASS : SelectionProxyModelTest::testInsertInSecondLevel()
```

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The screenshot shows the 'etm_usage' application window. The top menu bar includes 'EntityTreeModel', 'setRootIndex', 'Type specific data', 'KSelectionProxyModel', 'KSelectionProxyModel Filtered', 'Checkable Collections', and 'Categorized Iter'. The main area displays a list of emails with columns for 'Name/Subject' and 'Email'. One email is selected, showing its details in a preview pane below the list.

Name/Subject	Email
Gmail is different. Here's what you need to know.	Gmail Team <gmail-noreply@google.com>
Re: Ever gone into an exam having not revised ?	Stephen Kelly <steveire@gmail.com>
stuff	steveire <steveire@gmail.com>
[Gitorious] Your new password	gitorious <noreply@gitorious.org>
[Gitorious] Your account has been activated!	Gitorious <noreply@gitorious.org>
ttest	Stephen Kelly <steveire@gmail.com>
[Gitorious] Please activate your new account	Gitorious <noreply@gitorious.org>

[Gitorious] Your new password

From: Gitorious <noreply@gitorious.org>
To: kellystephenkelly@gmail.com
Date: 2009-08-15 14:40

Hello testacc.

Someone, most likely you, requested a new password for your Gitorious.org account.

If you did not request a new password for your account then please ignore this email.

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Thank you

<http://gitorious.org>

The screenshot shows the 'etm_usage' application window. The top menu bar includes 'setRootIndex', 'Type specific data', 'KSelectionProxyModel', 'KSelectionProxyModel Filtered', 'Checkable Collections', 'Categorized Items', and 'Tagged Items'. The main area displays details for a contact named 'Carol'.

Addresssee
Carol

Tags
akonadi
asdasd

Email
ttest

Note
Noteworthy note

ttest

From: Stephen Kelly <steveire@gmail.com>
To: ste ke <kellystephenkelly@gmail.com>
Date: 2009-08-15 13:00

ttest

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Questions?