



Sales & Technical Enablement Workshop

Developing XPages - Part III

Lotus Channel Technical Sales

Ready for



Business Partners

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Matthias Schneider
IBM Corporation
March 2010





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1 Time Estimates

The IT Professional should be able to complete this whole lab in 90 minutes.

2 Purpose

First, you will learn how to “componentize” your XPages application. We will re-use and assemble XPages components together with NSF and Web components into a Composite Application.

3 Description

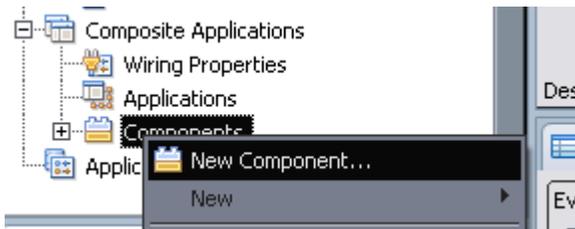
You will transform your stand-alone Scrapbook application into a re-usable component. Afterwards, you will create a NSF-based Composite Application and add the newly built component there. In a final step, you will wire these components.

The My Widgets feature is installed with Notes 8.0.1. This lab also demonstrates how to use the Lotus Notes My Widgets feature and programmatically wire a widget with XPages and other NSF components.

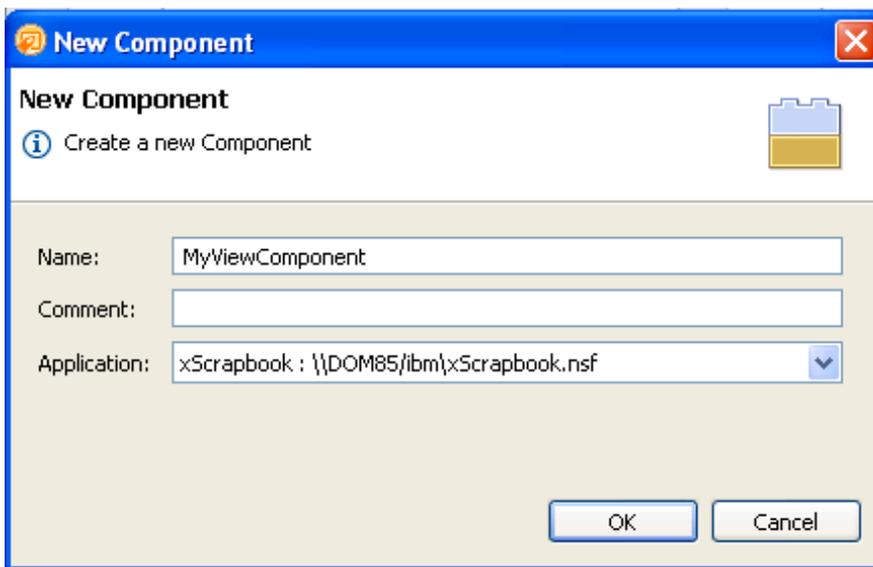
4 Detailed Steps

Create a Component based on your Application

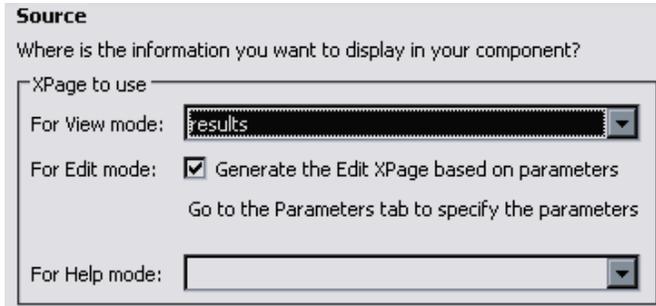
1. If Domino has not been started, **start** it now. Open Domino Designer from the desktop icon and login as **Domino Admin/ibm** with password **passw0rd**.
2. Open your xScrapbook application.
3. Navigate to Composite **Applications > Components**. Right-click on **New Component**.



4. Name the new component **MyViewComponent**.



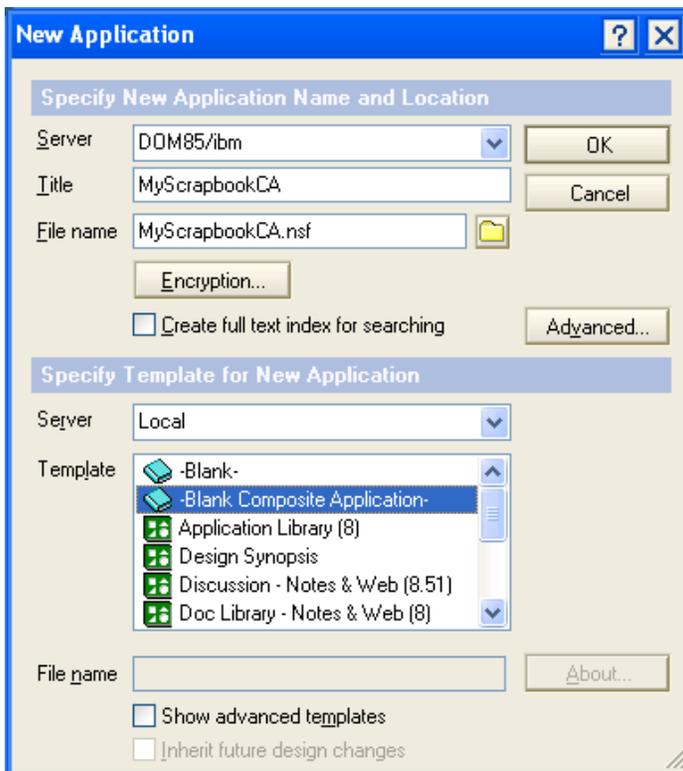
5. Select **results** as the XPage to use for **View** mode.



6. Save the new component and navigate back to Lotus Notes.

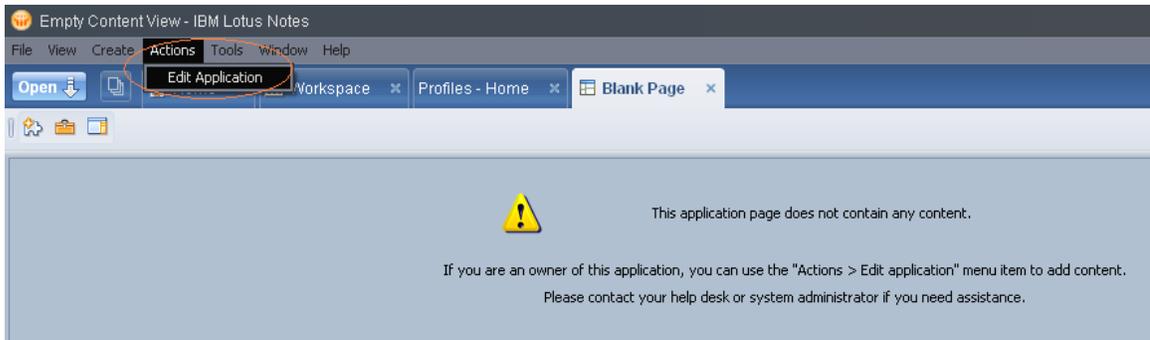
Create a Composite Application

7. Create a new Composite Application **MyScrapbookCA** there. Select the – **Blank Composite Application** – template for the new application.





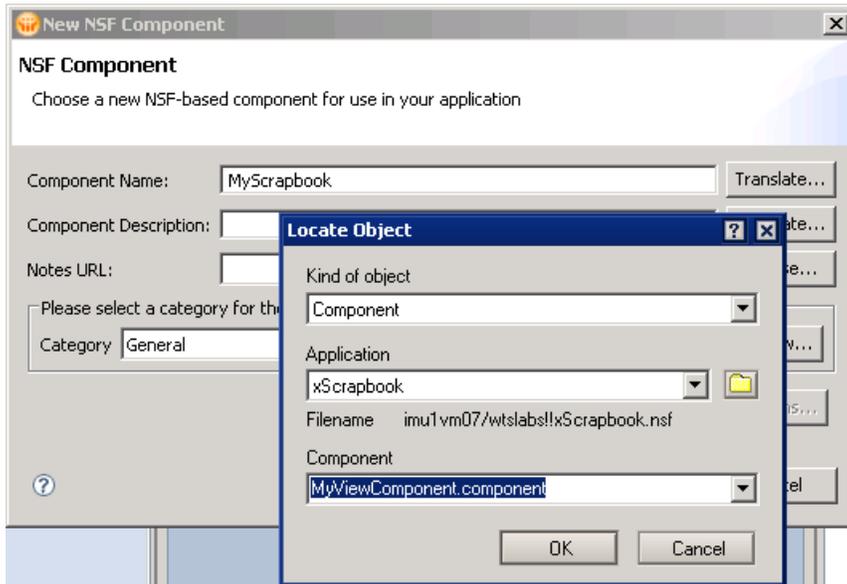
8. The application opens in read mode, displaying an empty page. From the **Actions** menu, select **Edit Application**:



9. From the right-hand palette, select **My Palette**, then, from the **Add Component** drop-down, select **Add NSF Component**.



10. Name the new component **MyScrapbook**.
 Select **Browse** and – from the Domino server – choose your Scrapbook application.
 Locate the **MyViewComponent.component** element. Click **OK** twice.



Note: You might notice the effect that, although you have selected the Scrapbook application on the server, the **Filename** still points to some other database. This effect has been reported to mostly occur in a VMWare scenario. To fix it, proceed with the following steps:

- Close both Domino Designer and Lotus Notes.
- Shutdown Lotus Domino (**quit** on the console) and restart the server.
- Open the Composite Application in Notes and try again.

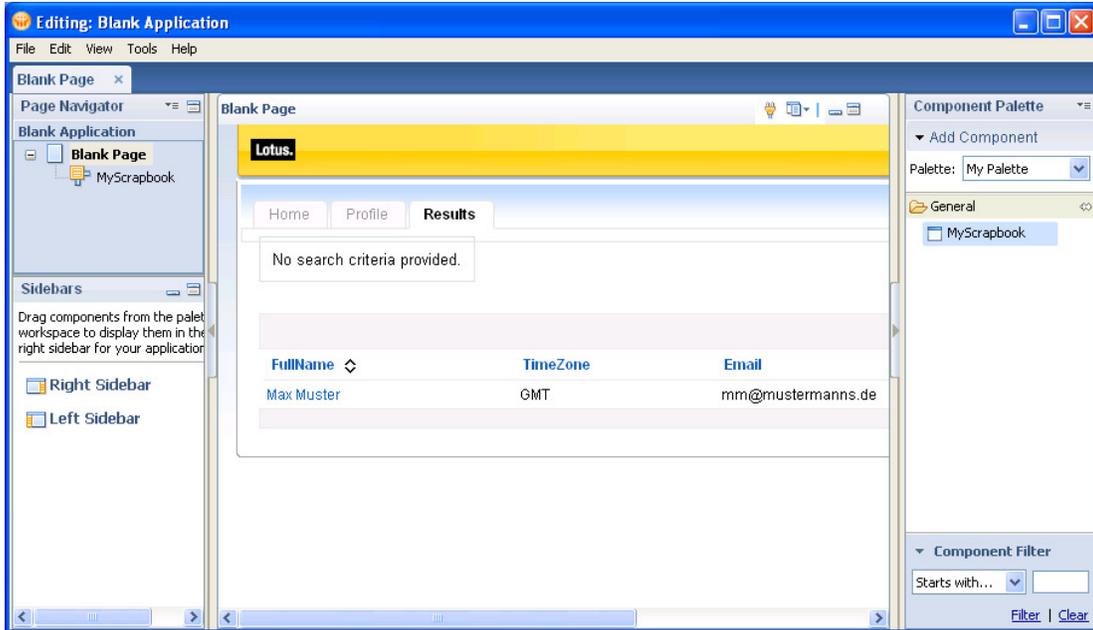
If this doesn't work, add the component manually to the Notes URL field. The URL has the following format:

Notes://DOM85/<ReplicaID>/MyViewComponent.component

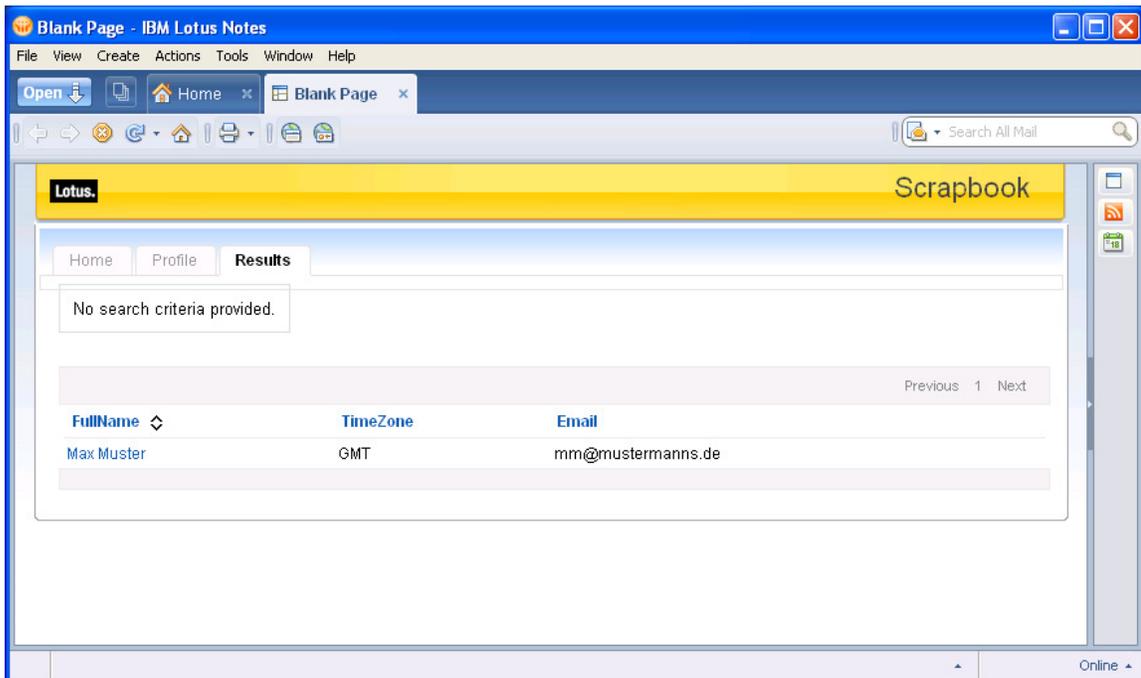
Example: Notes://DOM85/862576D60035466C/MyViewComponent.component



11. Drag the **MyScrapbook** component from the right-hand palette into the empty middle area of your screen and drop it there. The result should look like this:



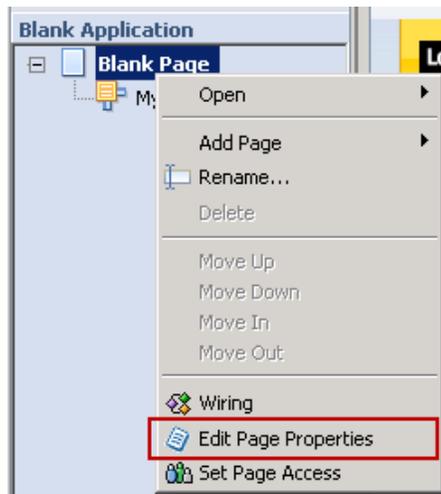
12. Click **File > Save and Close**. The application is getting opened in Notes.



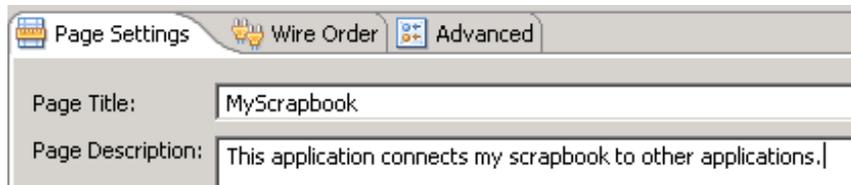


Notice that the previously displayed authentication dialog – when you tested your XPage in a web browser – has been skipped. In Lotus Notes, you are already authenticated as Domino Admin since you logged in. This ID-based authentication has been automatically mapped to the corresponding Internet authentication – a real Single SignOn!

13. Switch back to edit mode (via **Actions > Edit Application**), then right-click to **Blank Page** in the left-hand navigator. Select **Edit Page Properties**.

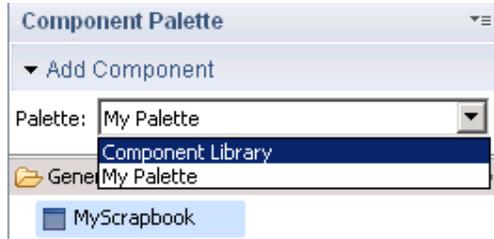


14. Name the page **MyScrapbook**.

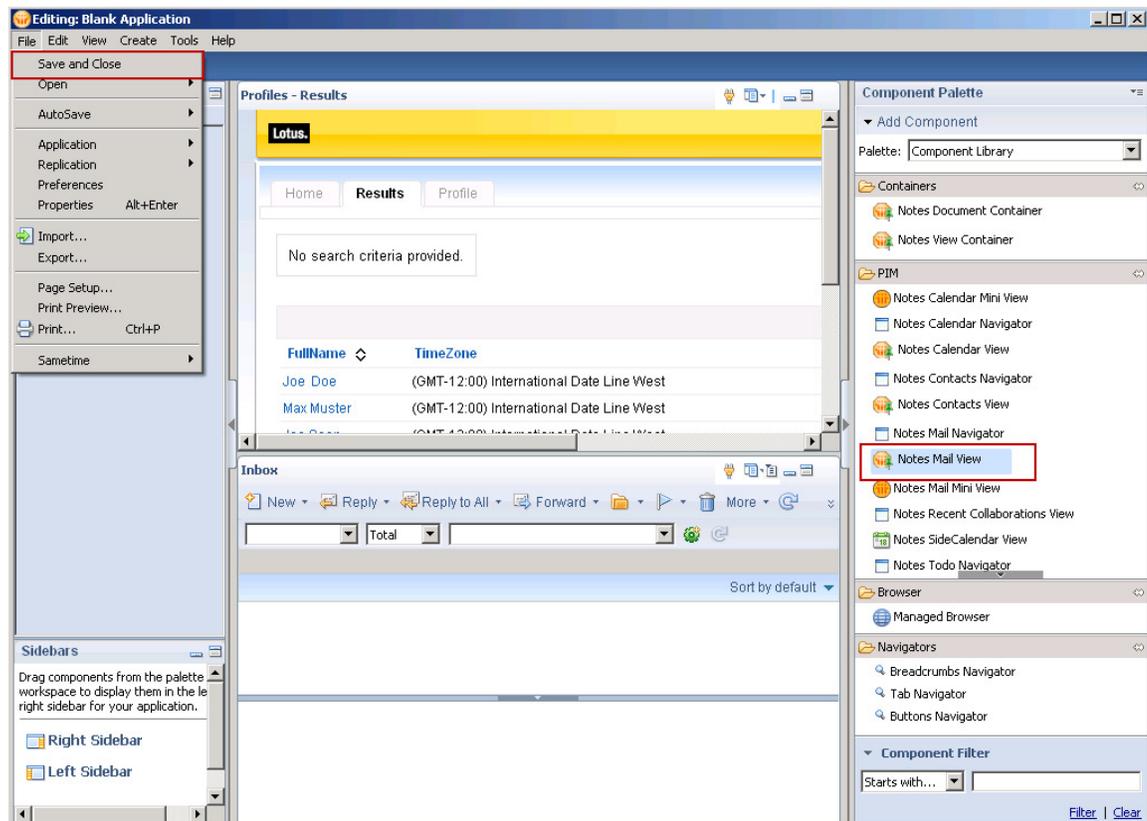


15. **Save and Close** your application. Notice that the tab name has been changed. While having the **Scrapbook** application opened in Notes, select **Actions > Edit Application** from the main menu.

- From the right-hand **Component Palette** switch to **Component Library**.



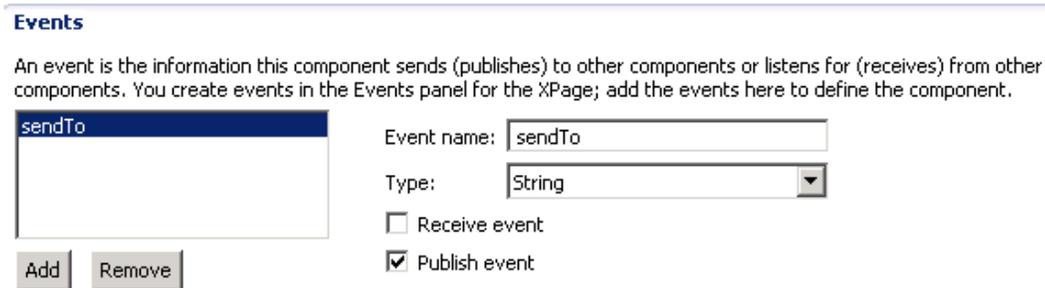
- Drag the Notes Mail View component to the lower end of the middle area and drop it there. The result should look like this:



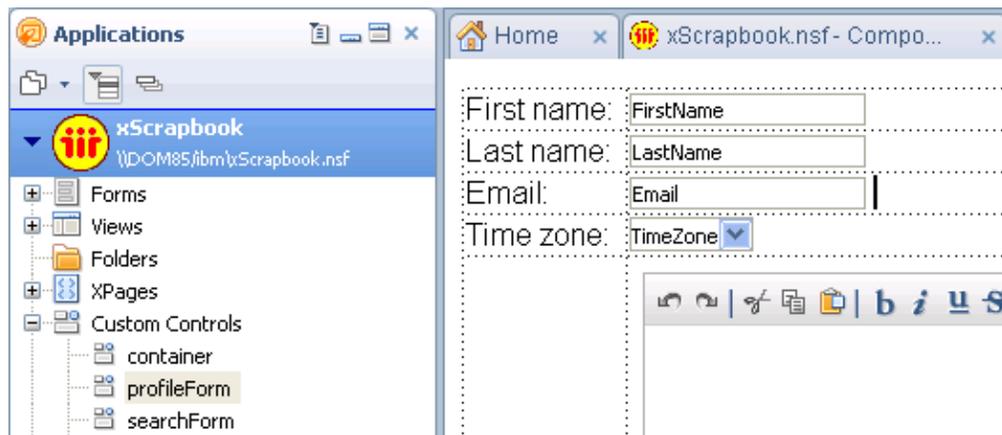
- Save and Close** the editor.

Integrating E-Mail Functionality

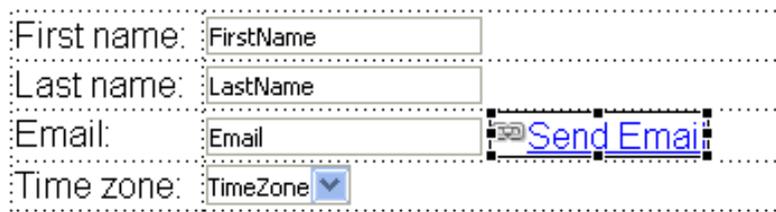
- Switch back to Domino Designer and navigate to the **MyViewComponent** component. Add an event **sendTo** which publishes a **String** property. **Save** the component.



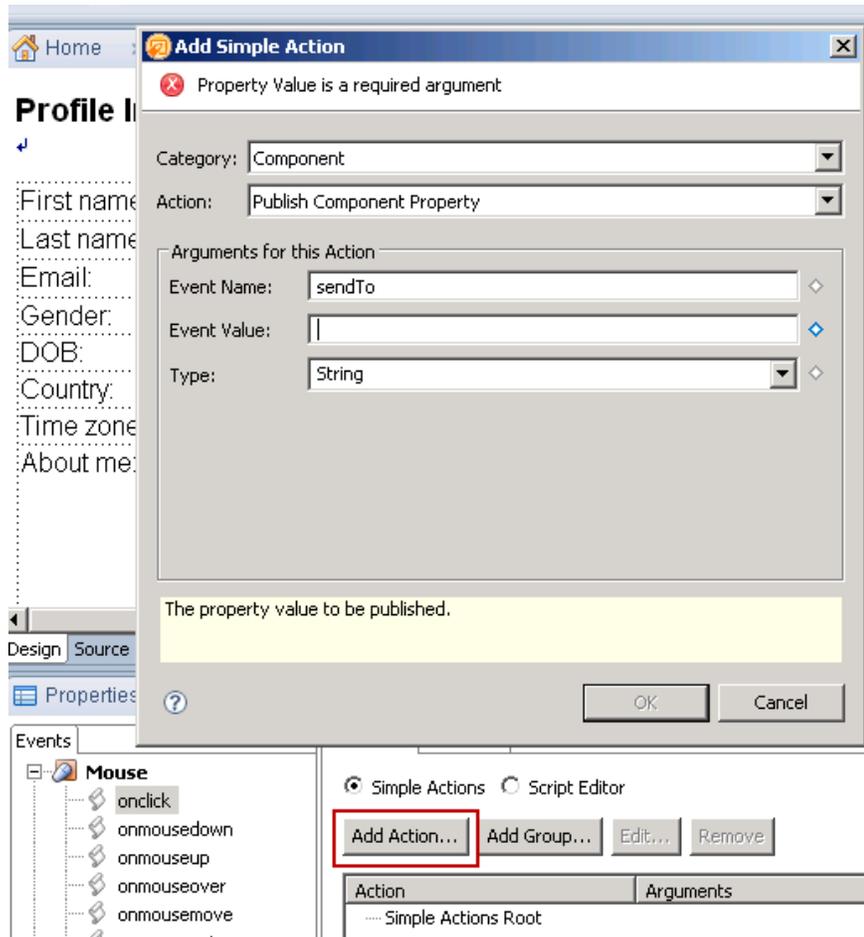
- Navigate to your custom controls. Open the **profileForm**.



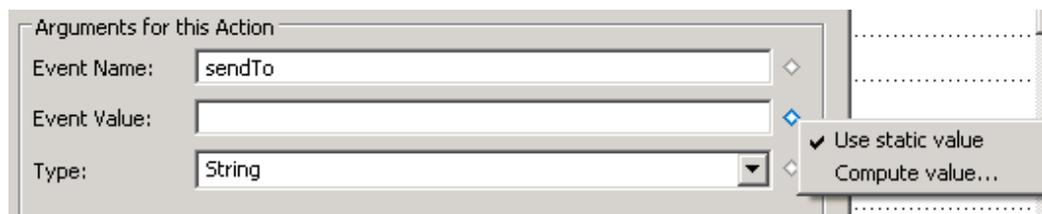
- Next to the **Email** edit box, create a **Send Email URL Link** control.



22. Assign a new **client-side Simple Action** to that link. From the **Category** drop-down, select **Component** and let the link publish our new component property:



23. Select **Compute value...** to specify the **Event Value**.

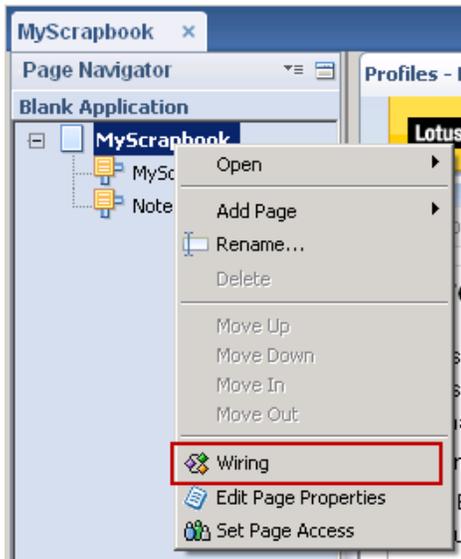


24. Add the following cod (you might copy it from **C:\MyLabFiles\C&P.doc**):

```

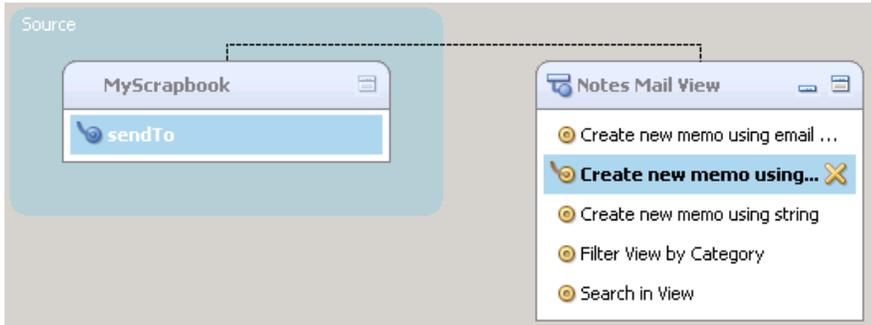
Language: JavaScript (Server Side)
Condition:
 Compute Dynamically  Compute on Page Load
try
{
    var sendTo = currentDocument.getItemValueString("Email");
    var subject = "How are you?";
    var abs = "Hi, how are you?";
    var mailTo = "mailto:" + sendTo + "?subject=" + subject + "&body="+abs;
    return mailTo;
}
catch (e)
{
    //Do nothing
}
    
```

25. Click **OK** and save the XPage. Back in Lotus Notes, turn your application into edit mode again.
26. Right-click on the **MyScrapbook** page, then select **Wiring** from the menu.

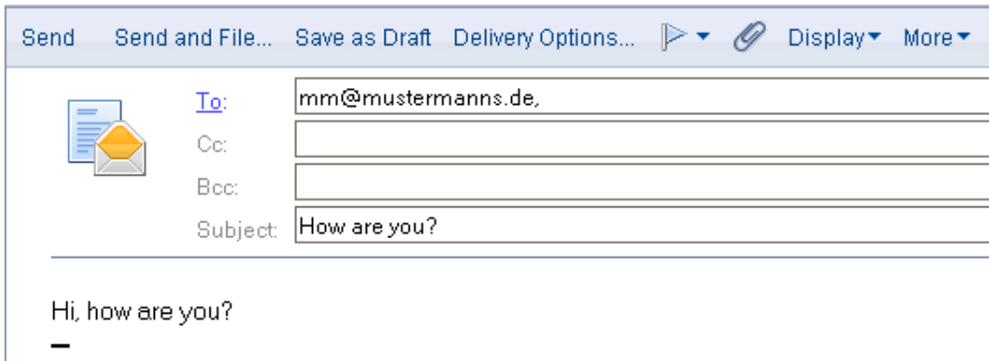




- Click the **Disable strict type checking** button on the lower end of the page. Then, drag the **sendTo** property from **MyScrapbook** onto the second **Create new memo using...** action of the **Notes Mail View**.

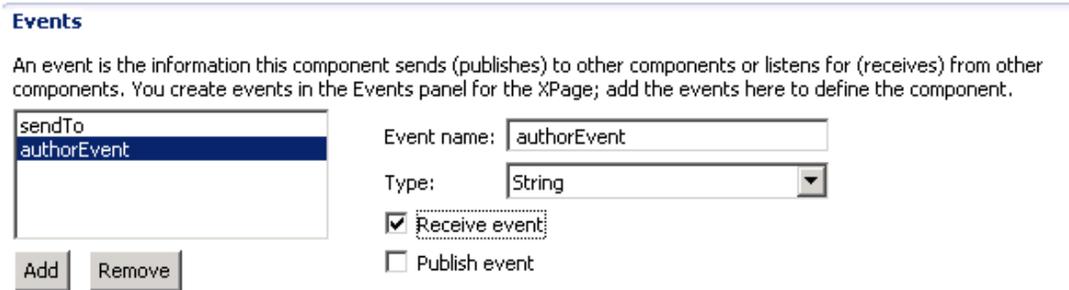


- Close the **Wiring** tab, then **Save and Close** the editor. The application comes up in Notes. Open a profile (e.g. Max Mustermann) and click on **Send Email**. A new mail should be created.

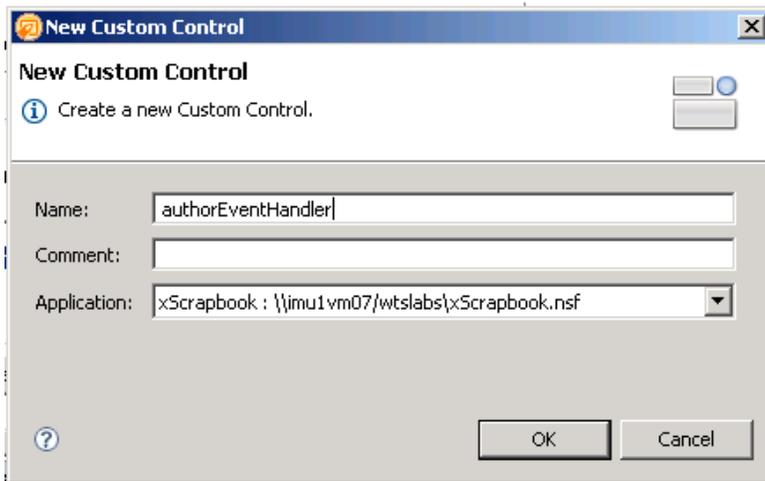




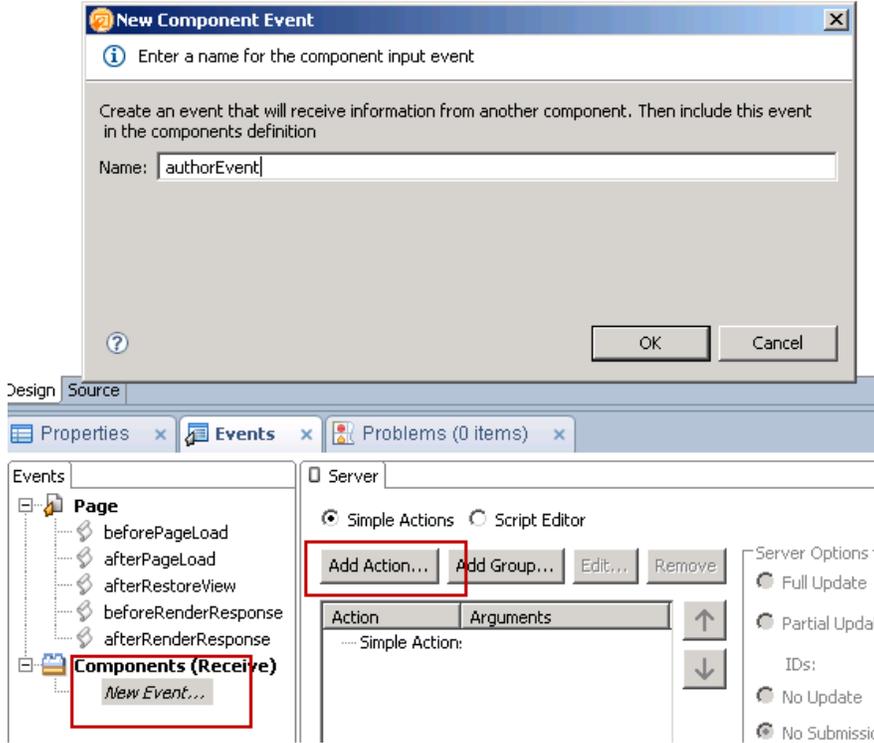
- Navigate back to the **MyViewComponent** component in Domino Designer. Add a second event **authorEvent**, which consumes a property sent from outside.



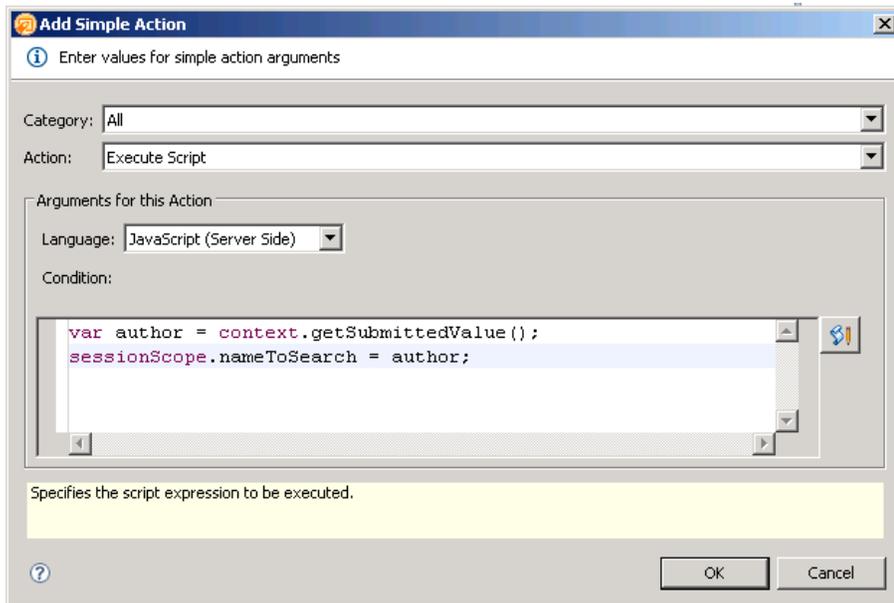
- Save the component. Then, right-click to the **Custom Controls** element in the navigator and select **New Custom Control**.
- Name the new control **authorEventHandler**.



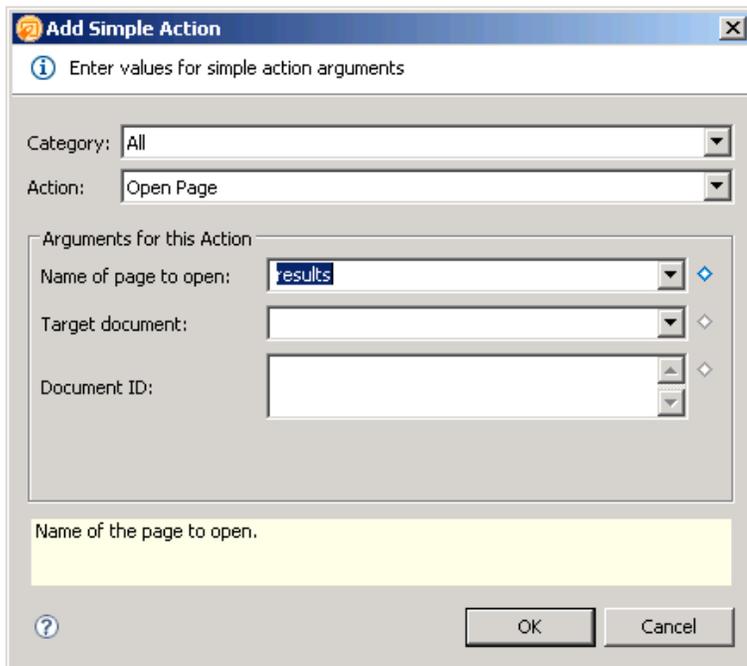
32. From the **Events** tab, create a **New Component Event**.



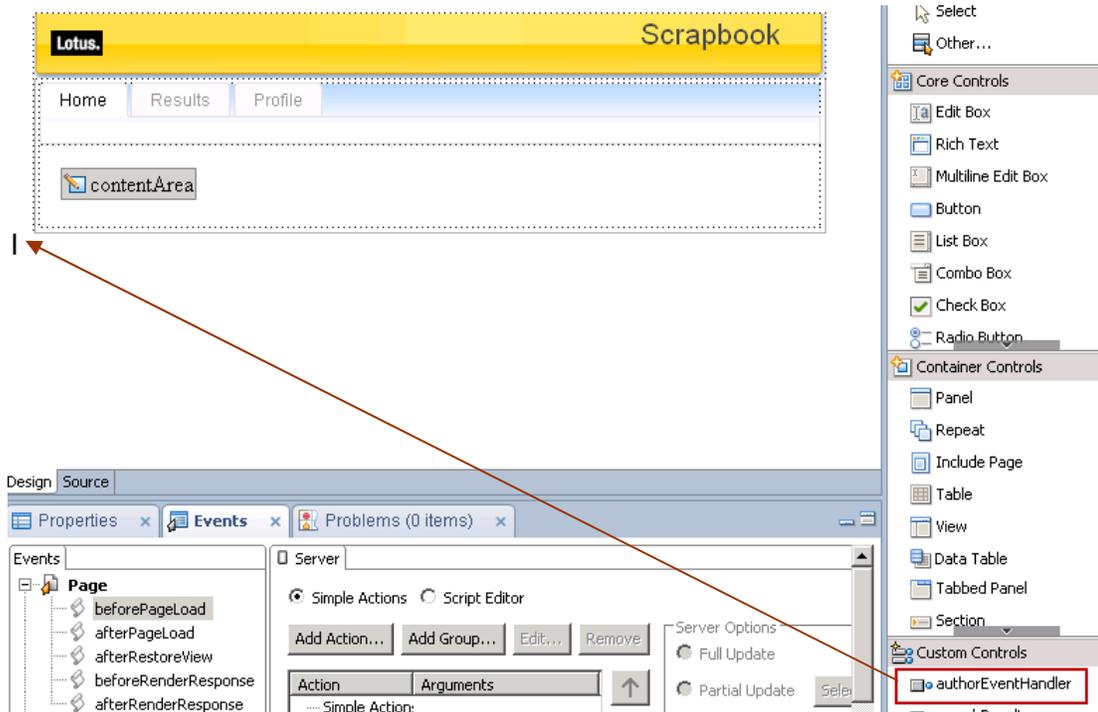
33. We will add two Server-side **Simple Actions** there. First, let the event trigger a script execution:



34. Second, let the event open the **results** page.



35. Save and close the newly created custom control. Open the **container** custom control. Drag the **authorEventHandler** custom control to the end of the current control.



36. As the result, you should see the embedded custom control both on the page and as part of the **Outline**.

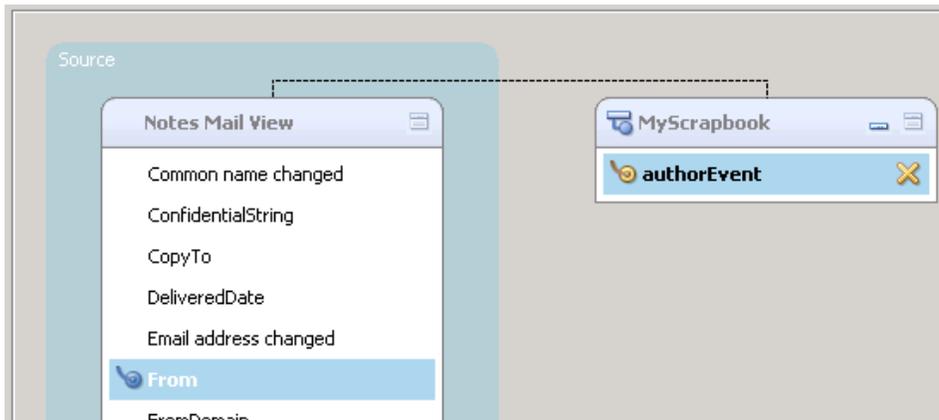


37. Save and close the current custom control.

38. Back in Lotus Notes, edit your Composite Application again. Right-click on the **MyScrapbook** page, then select **Wiring** from the menu.
39. Right-click on the **Notes Mail View** component and click on **Select as wire source**.



40. Drag the **From** property from the **Notes Mail View** onto the **authorEvent** action of the **MyScrapbook** component.



41. Close the **Wiring** editor, then Save and Close the **Composite Application Editor**.



42. From the application, create a Scrapbook **profile** for yourself: Domino Admin.

Home **Profile** Results

First name:

Last name:

Email: [Send Email](#)

Time zone:

43. From the **Inbox** component, create two new mails: one sent to yourself (Domino Admin), the other one sent to someone you might imagine (e.g. muster@mm.com). At least one of the mails should contain the name of an (English) colleague - John Doe is a good example. The purpose of this will become more clearly in the next lab.

To:
Cc:
Bcc:
Subject:
From:

Hi,

just got the following document from John Doe:



C&P.doc

Regards

—

44. After sending, you should have two mails in your inbox (OK, the second one is a router-generated delivery error, but just to show...). Click on the mail you have sent to yourself.



- 45. The corresponding profile from Scrapbook should be opened, while the search for "Mail Router" doesn't return any match.

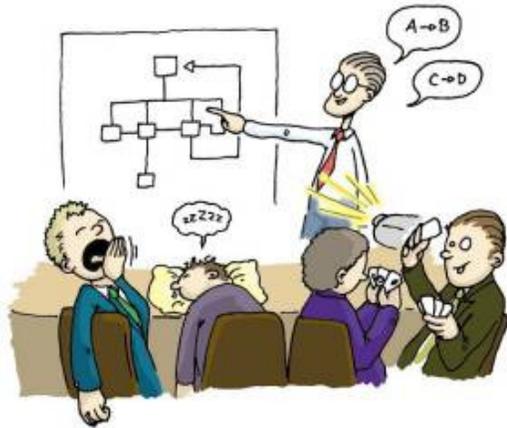
The screenshot shows the Lotus Notes Scrapbook interface. At the top, there is a yellow header with the Lotus logo and the word "Scrapbook". Below this, there are tabs for "Home", "Profile", and "Results". The "Results" tab is active, showing "Profile search results for: Domino Admin". A table below lists search results with columns for "FullName", "TimeZone", and "Email". The first result is "Domino Admin" with a time zone of "(GMT-12:00) International Date Line West" and email "dadmin@dfw.ibm.com".

Below the search results is a toolbar with icons for "New", "Reply", "Reply to All", "Forward", "More", and "Show". Below the toolbar is an email list table:

Sender	Subject	Date	Size
Domino Admin	Hi Admin	11/28/2009 07:20 AM	1K
Mail Router	DELIVERY FAILURE: No route found to domain mnn.de from server DOM85.IBM. Check Server, Connection and Domain documents in the Domino Directory.	11/28/2009 07:21 AM	2K

The email "Hi Admin" from "Domino Admin" is selected. Below the email list, the content of the selected email is displayed: "Hi Admin" from "Domino Admin" to "Domino Admin" on "11/28/2009 07:20 AM". The body of the email contains the text "Hi".

Overview – Description of the next steps...

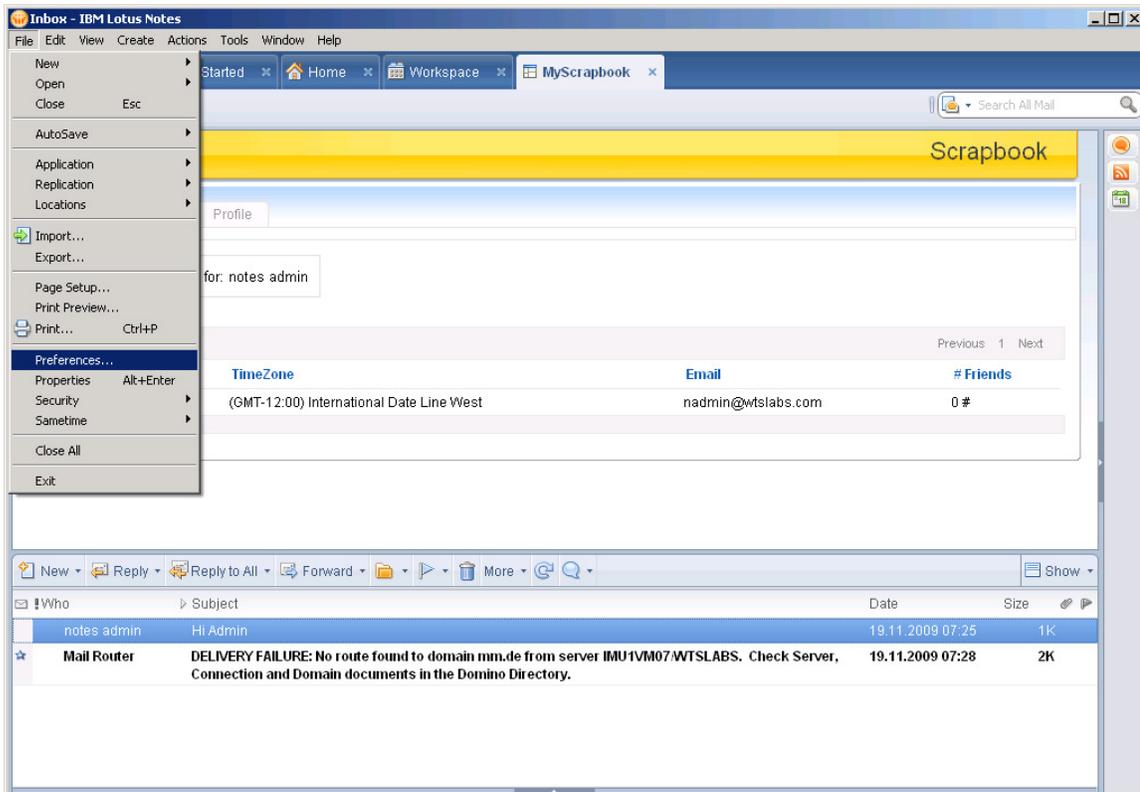


If you have reached this section, it's time for a short break. During the next five minutes, the instructor will provide a short summary of what we will do next – and why...



Working with Widgets

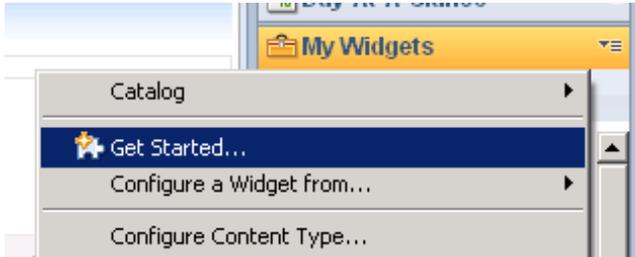
46. Open the Lotus Notes preferences by selecting **File > Preferences**.



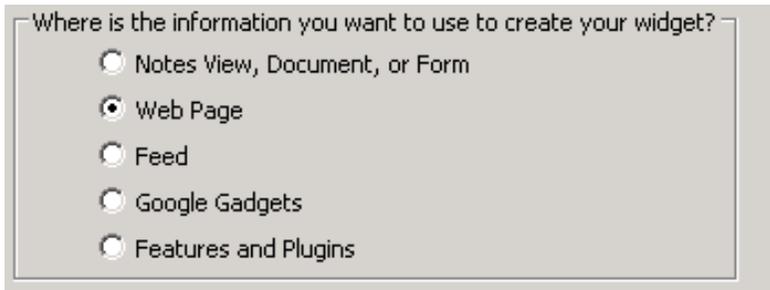
47. Navigate to the **Widgets** section. Enable the **Show Widget Toolbar and the My Widgets Sidebar panel** option.



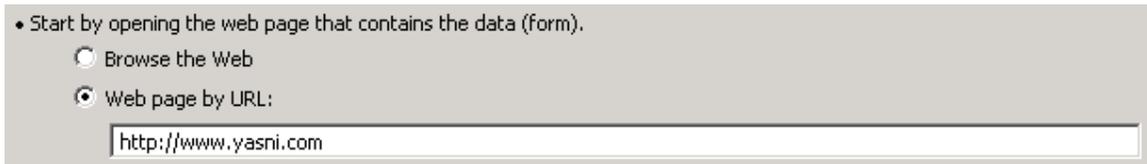
48. Save and close the preferences. Notice the new **My Widgets** sidebar component. From the upper right component header menu, select **Get Started...**



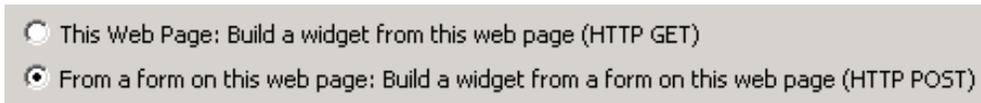
49. Our widget will consume a Web Page, therefore select the **Web Page** option.



50. Specify www.yasni.com as our Web source.



51. Specify a HTTP POST as the submit option of choice.





52. From the list of forms, select the one available. Click **Next**.

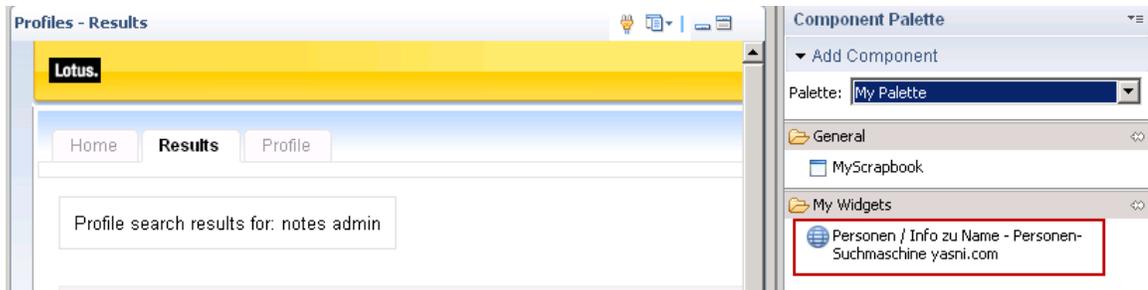
53. Navigate to the **Advanced** tag and enable the **Configure name** property.

54. **Finish** your widget creation.

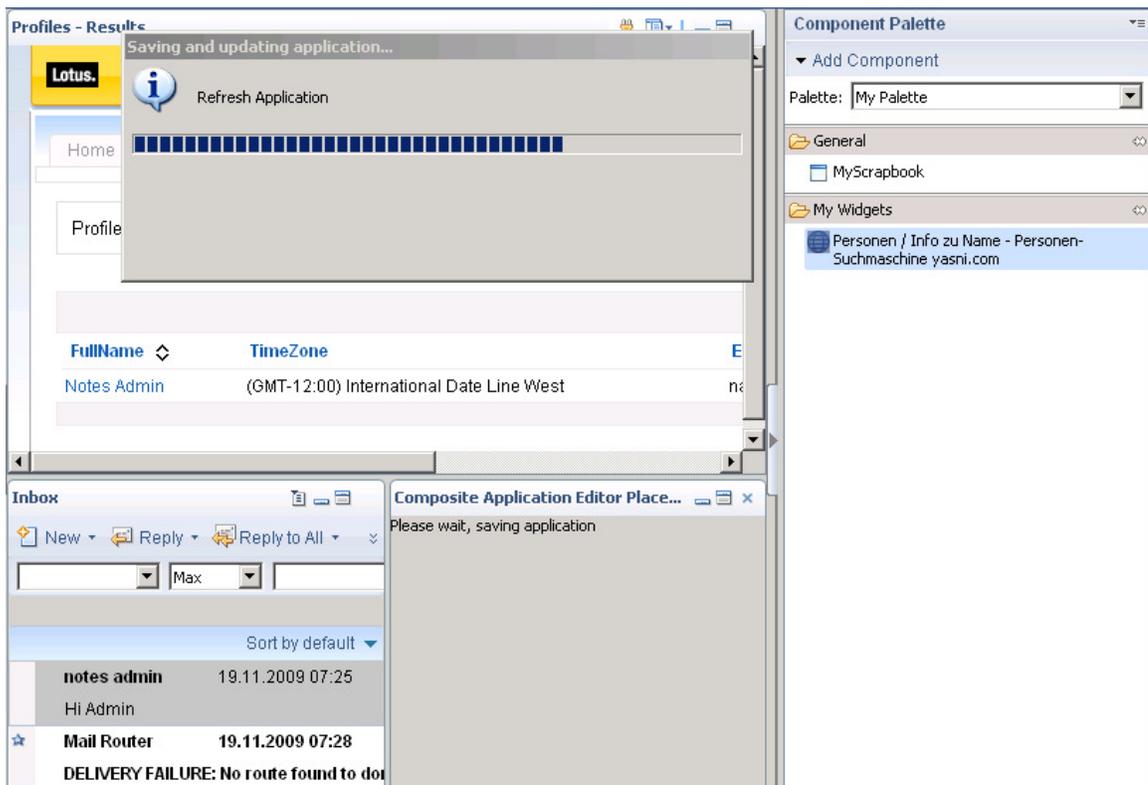


Integrating XPage Components and Widgets

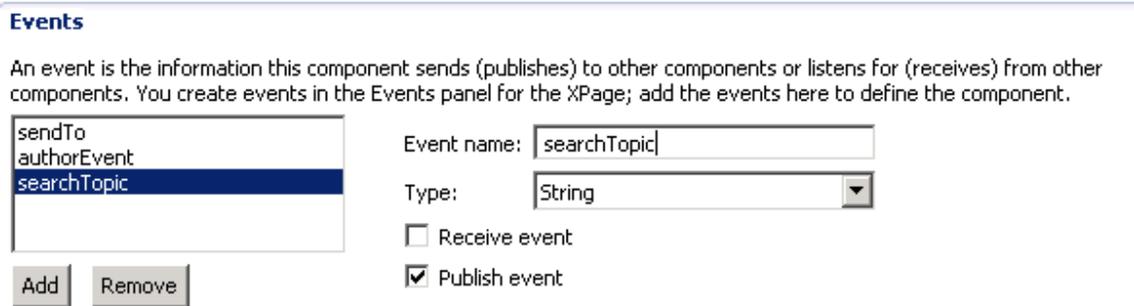
- Open your **MyScrapbookCA** application in Composite Application Editor (via **Actions > Edit Application**). Select **My Palette** from the right-hand menu and notice the now available widget you created before.



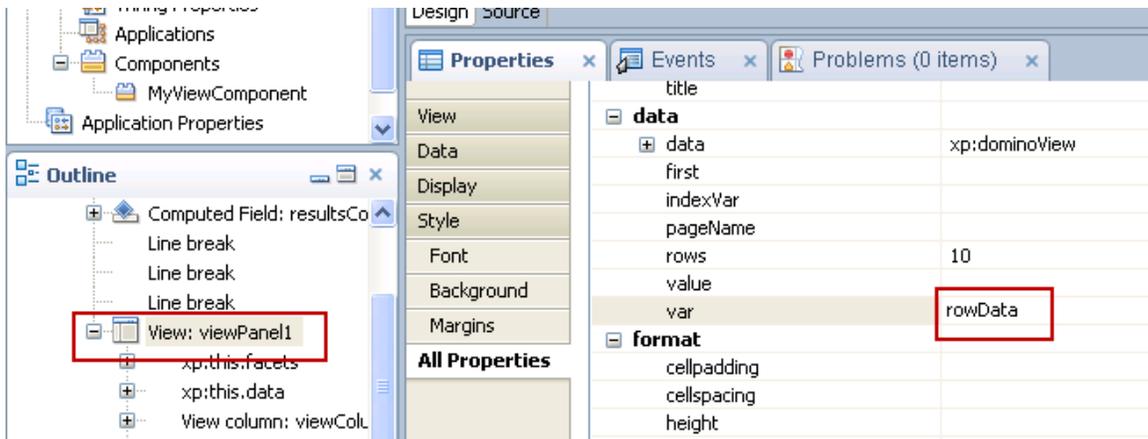
- Drag the newly created widget component and drop it next to the mail component.



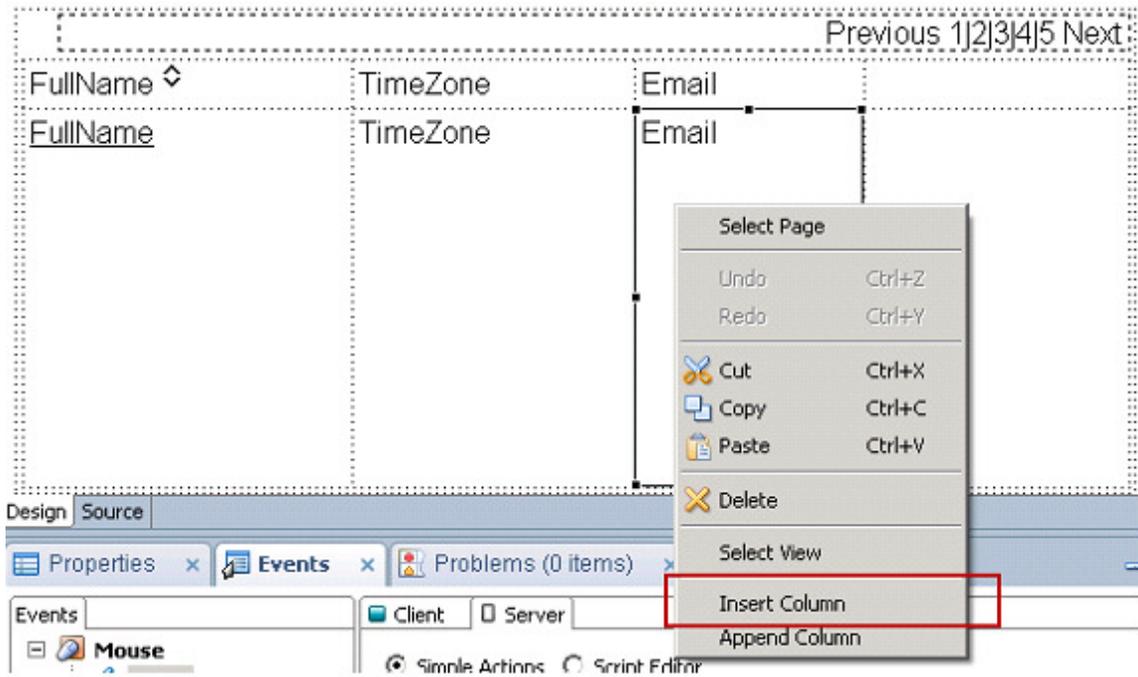
57. **Save and Close** the editor.
58. Back in Domino Designer, navigate to the **MyViewComponent** component. Add a new publishing event **searchTopic**.



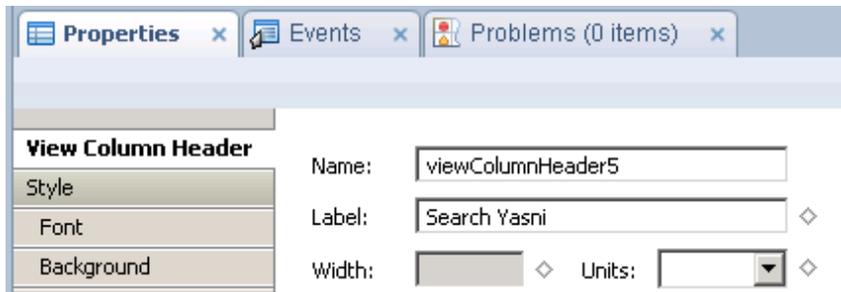
59. Save the component, and then navigate to the **searchResults** custom control.
60. Select the **View** element, then, from the **Properties** tab, open the **All Properties** section.
61. Navigate to **data\var** and name the view collection variable **rowData**.



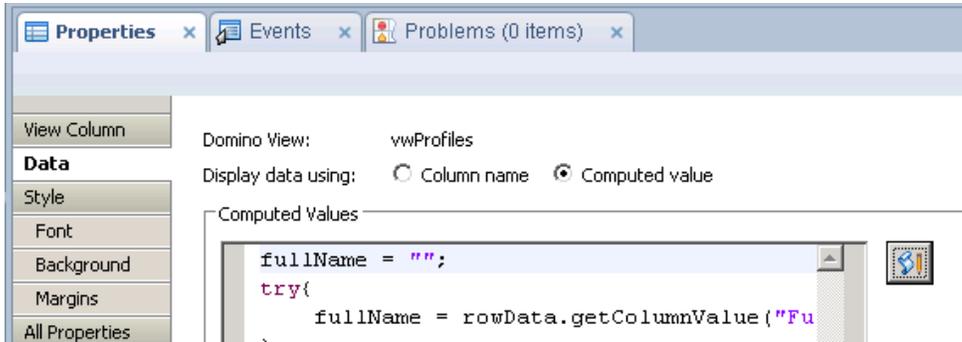
- Right-click to the **Email** column of the view and select **Insert Column** from the menu.



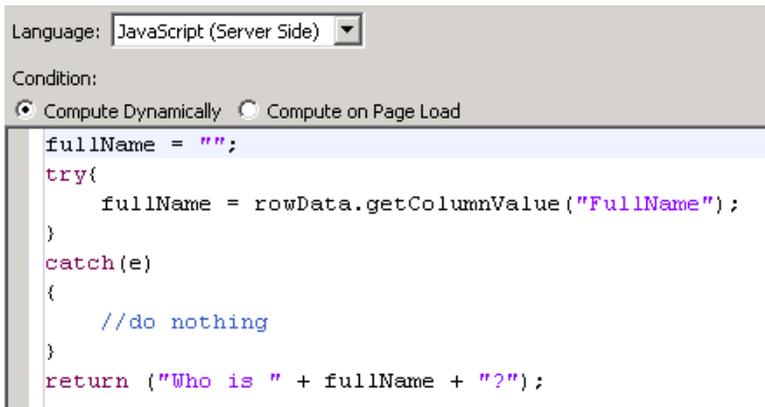
- Navigate to the **View Column Header** section of the **Properties** and label it **Search Yasni**.



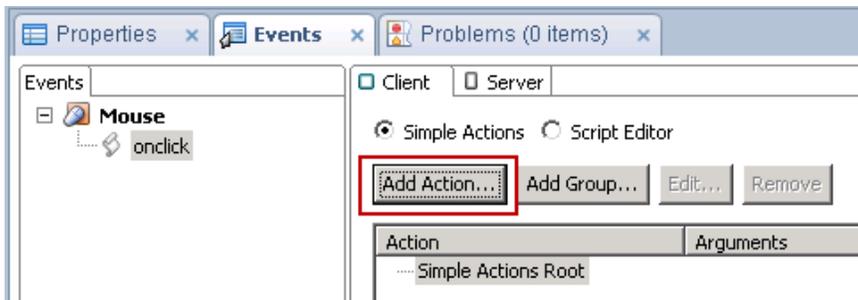
64. Select **Data** from the column properties.



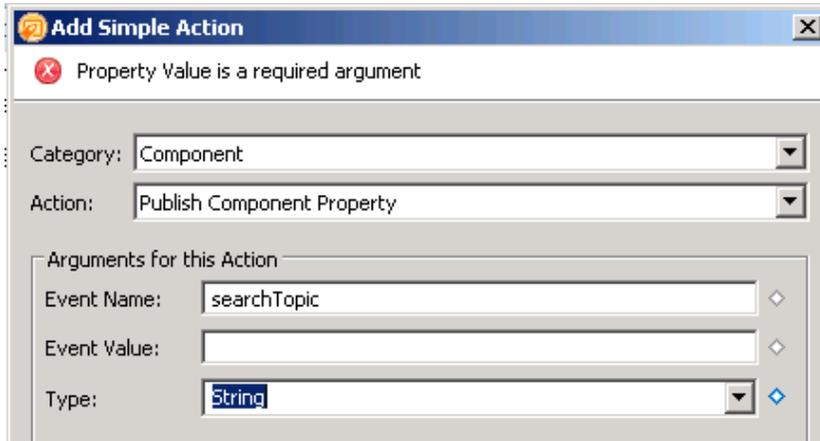
65. Add the following **Computed value** code:



66. From the **Events** tab, add a **Client-side Simple Action**.



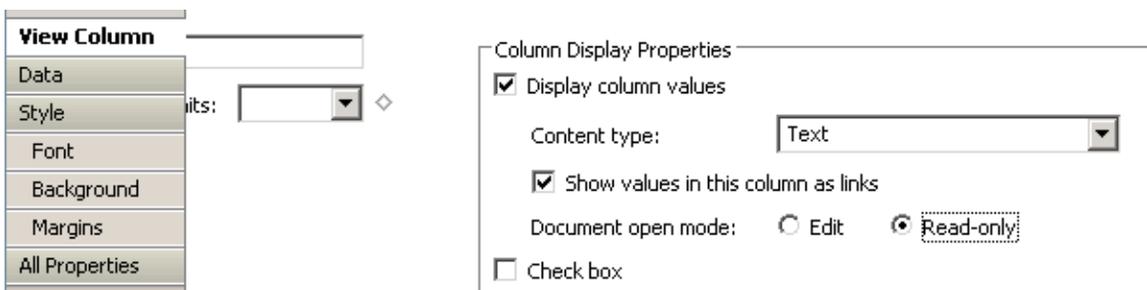
67. We will publish our component property **searchTopic** there:



68. Add the following **Event Value** code:



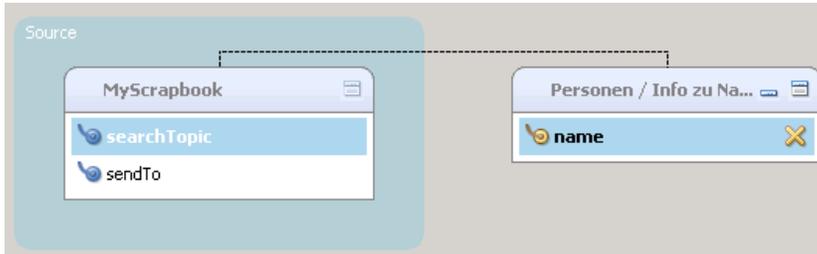
69. Let the property get published by clicking a link:



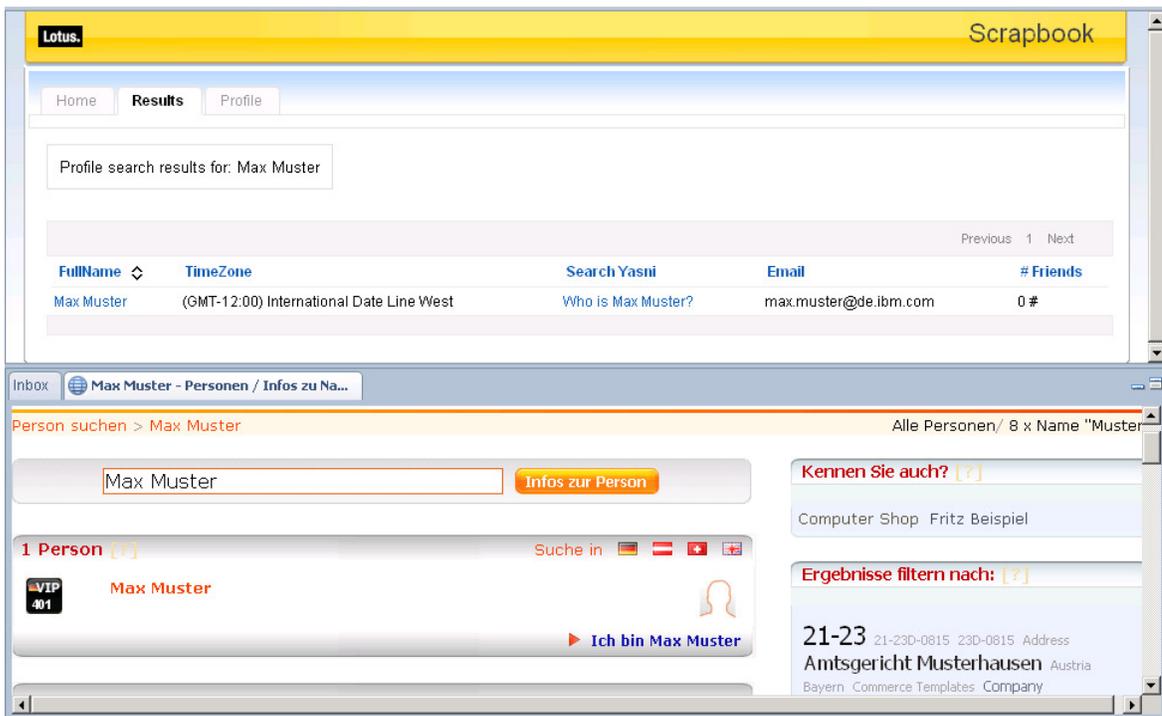
70. Save and close the **searchResults** custom control.



- Back in Lotus Notes, open your Composite Application in edit mode. Open the **Wiring** editor again. Connect the **searchTopic** property to the **name** action.



- Re-arrange (if you want) and test the resulting application.



5 Summary

You became familiar with the approaches and tooling to create a Composite Applications that consist of both NSF and XPages components. You wired these components and enabled them to communicate with each other.