



Sales & Technical Enablement Workshop

# **Developing XPages - Part I**

# Lotus Channel Technical Sales



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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 lab in 90 minutes.

## 2 Purpose

You will build the foundation for our sample application and learn about application structure that allows styling your application easily.

You will learn how to create a custom control that has a customizable content area. You will use the control in the sample application and learn how to display Notes documents in XPages using form properties and simple data binding.

# 3 Description

You will create three XPages that provide access to our sample application. You will prepare some structure for the subsequent exercises and then extend the existing container control to include a tabbed control and a content area. The content area allows you to add individual content into it, effectively creating a new container control type.

Create a profile form (Classic Notes) and map the profile form to an XPage. Add data binding to the profile XPage to show data stored in the Notes form.



## **4 Detailed Steps**

#### Create a new XPage Application

- 1. If Domino is not running, start it now.
- 2. Open Domino Designer from the desktop icon and login as **Domino Admin/ibm** with password **passw0rd**.
- 3. Close the Welcome Page and click on **Create a New Application** from the Home Page.

83	Lotus Domino Designer 8.5	Home	A.	IBM.
	Create a New Application		Open an Ex	isting Application

4. Select **DOM85/ibm** as the server and name the blank application **xScrapbook**.





- 5. Click OK.
- 6. Create three XPages in your Scrapbook application named:
  - home
  - results
  - profile
- 7. Create one Custom Control named container.
- 8. Open the **container** custom control.

In the next step we will add nested panels to the custom control.

**Note**: A panel translates into a DIV element using the HTML rendering but can contain additional logic. Panels are commonly used for styling or partial refresh operations.

9. Drag six panels onto the **container** Custom Control page and then arrange and nest them as shown below.

Important: make sure to use the names shown:

- Panel: frame
  - Panel: **header** 
    - Panel: headerInner
  - Panel: **main** 
    - Panel: tabBar
    - Panel: content





The easiest way to do this is using the **Outline** panel on the left side of the screen.

Applications	1 🕳 🖬 🗙	Home	× B hw	Page	× 😬 hwCon
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Root Document	n Instruction ne header nel: headerInner main nel: tabBar nel: content	1			

10. Add a **Label** control into the **headerInner** panel and give it a Label of **Scrapbook**.

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- 11. Save the custom control. You might receive a message that the automatic project build has been turned of. Enable it via **Project > Build Automatically**.
- 12. Add your new container custom control via Drag'n Drop to each of the XPages (home, results, profile).



#### Work with Stylesheets

- 13. From the **Resources** section of the application navigator, double-click on **Style Sheets**.
- 14. Click on **Import Style Sheet** and browse to C:\MyLabFiles\XPages\stylesheets\styles.css.





- 15. From the Resources section of the application navigator, double-click on Images.
- 16. Click on Import Image Resource and browse to C:\MyLabFiles\XPages\images.
- 17. Import all of the images from this directory. (You can select them all using the Ctrl key)



Next, we will add the style sheet to the **container** control.

18. Click anywhere on the **container** control and then click on **Style** in the **Properties** dialog





19. Click on the **Add style sheet to page** button.

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Resources Navigation Property Definition		
All Properties		
	Theme:	⇒
	Add style sheet to page.	

20. Select **styles.css** from the dialog and click **OK**.

Add Style Sheet to Page	
<ol> <li>Select style sheet to add to this page</li> </ol>	
• Use style sheet from this application	
styles.css	
New Import O Link to style sheet from a URL:	





21. On the **Style** tab of each panel (6 panels) map the panel name to the corresponding named style sheet class.

Resources     Images     Files	Properties	× 🖅 Events 🗙 🚼 Problems (0 items) 🗙
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Outline     Councel     C	Style Font Background Margins All Properties	Class: frame Styles: Styles: Style sheets on page Style shee

TIP: Use the Outline to navigate the panels easily.



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22. Go back to the label you added to the **headerInner** panel and map it to the class **headerInnerTitle**.

Resources  Timages  Files  Applets  Style Sheets  Times  Times Times  Times  Times  Times  Times  Times  Times  Times T	Properties	× 🖅 Even	ts × Problems (0 items) ×
Outline     Control     Control     Control     Control     Control     Control     Control     Panel: frame     Panel: header	Font Background Margins All Properties	Class: Styles:	headerInnerTitle

- 23. Save the container control and switch to one of the XPages.
- 24. Use the **Preview in Web Browser** button to see the results in the browser.

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Lotus.	Scrapbook





#### **Our first XPages**

- 22. Open the **container** custom control.
- 23. Drag a **Tabbed Panel** (from Container Controls) onto the page and use the Outline to place it into the **tabBar** Panel control.



The tabbed panel needs to have 3 tabs: Home, Profile and Results.

24. Right click on tabbed panel and select Append Tab.

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Tabbed	Remove Active Tab		
Style	Insert Tab		-
Font	Append Tab		



- 25. Use the outline to select the tabs and get to their properties and name:
  - the first tab homeTab with a label of Home
  - the second tab profileTab with a label of Profile
  - the third tab resultsTab with a label of Results

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· Panel: conte	nt	Properti	es × д	Events 🗙 💽 Prol	olems (0 items)
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		Font	Label:	Results	♦
		Background	Vis	ible 🗇	
		Margins			

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26. Drag an **Editable Area** control (from Core Controls) into the **content** area. Drop it where **facet\_1** is in the picture.

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Home	Profile Res	sults						
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- 27. Create three more Custom controls:
  - searchForm
  - profileForm
  - searchResults

**TIP**: Add some temporary content to these controls to be able to see their proper operation.





- 28. Add each of the new custom controls to their own XPage **Editable Areas** as follows:
  - searchForm into home
  - searchResults into results
  - profileForm into profile

**Example:** Drag and drop the **searchForm** custom control onto the green circle on the **home** XPage.



29. Use the preview button to preview the home page.





30. Change the URL to see each page, e.g. home.xsp, results.xsp & profile.xsp. Note that you will connect up the navigation tabs in Exercise 14.

- Lotus.	Scrapbook
Home Profile Results	
searchForm	
Lotus.	Scrapbook
Home Profile Results	
profileForm	
- Lotus.	Scrapbook
Home Profile Results	
searchResults	

### Bring Data into Play

- 31. Create a new Notes form named **profile**. Add the following fields:
  - FullName (Computed Text) Formula: @Trim(FirstName + " " + LastName)
  - Email (Text)
  - TimeZone (Text)
  - AboutMe (Rich Text)
  - Gender (Text)
  - Country (Text)
  - FirstName (Text)
  - LastName (Text)
  - DOB (Date Time)

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The result should look like this:

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32. On the **Form** properties for **On Web Access**, use **Display XPage instead** and set it to the **profile** XPage.

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On Open	Automatically enable Edit Mode Show context pane
On Close	Present mail send dialog
On Web Access	Display XPage instead profile   Not Content type HTT profile Oth results Character set Default Generate HTML for all fields Active link Unvisited link Visited link
Data Sourc Default dat Default met	tadata object



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33. Create a new view named "profiles" with the view selection formula **SELECT form="profile"** 

and the following columns:

- FullName (Sorted Ascending, Sortable / Click to Sort Both)
- TimeZone
- Email

Map the column values to the previously created fields from the **profile** form.

- 34. Create some documents in the **Notes** client with the **profile** form. You can accomplish this by opening the Scrapbook application and selecting **Create** > **profile** from the main menu.
- 35. Preview the view in the browser and open a document from the view (which will be empty other than our header).



36. Open the **profileForm** custom control and remove any temporary text you entered.



37. On the **Data** tab of the Properties dialog, add a **Domino Document** data source.



#### 38. Choose **profile** as the form.

Custom Control	Data sources:	-Data Source: Dor	nino Document	
Data Style	document1	Name:	document1	
Font		Application:		
Background		💿 Current	xScrapbook.nsf	
Margins		Other		
Resources	Add  Remove	Faire	orafia	
Navigation		Form:	profile	×
Property Definition	After you define data sources, you can	Default action:	Create document	*
Design Definition	drag elements from the <u>Data palette</u> on to	Parent ID:	1	
All Properties	the page to bind data.			





39. Click on the **All Properties** tab in the Properties dialog. Expand the **data\data** entry, then expand the **dominoDocument** entry and select **onsave** for the **computeWithForm** option.



- 40. Save the custom control.
- 41. Select the **Data** palette from the right side of the screen. Note: If the **Data** palette is not visible, select the arrow beside the **Controls** tab and select **Data**.





42. Enable the **Select Controls dialog box** button.



43. Select all the field bindings except for **Full Name** and **DOB** (use Shift to select multiple).



44. Drag & drop all the selected field bindings to the **profileForm** page in the design editor.





- In the helper dialog change the following control types: About Me: RichText 45.

  - Gender: Combo Box
  - TimeZone: Combo Box

Edit Box
Edit Box
and the second se
Combo Box
Rich Text
Combo Box
Rich Text
Computed Field
List Box
Date Time Picker
code ed code
It for future Data palette operations

#### 46. Click on OK.



47. Reorder the row contents using drag & drop (in the Outline) to group related fields together.





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48. Right click inside a cell in the resulting table and choose to append 3 rows.



49. Drag a **Label** control (from Core Controls) to the first column in the first additional row and make the Label **DOB**.

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DOE	1	
ė	•	
Design Source		
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Style Font Background	Name: Label: Height:	label1       DOB       ♦       Units:
Style Font Background Margins	Name: Label: Height:	label1       DOB       ◇       Units:       ✓

50. Drag a **Date Time Picker** control (from Core Controls) to the second column in the first additional row.



51. From the **Data** tab in the **Properties** dialog, bind the picker to the field **DOB** and check that the display type is set to **Date** / **Time** and the Display format to **Date only**.

DOB	JOB				
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52. Preview the XPage for your control in your browser (note that, although you can complete the form, you can't save it since we don't have action buttons yet).

Lotus.	Scrapbook
Home Profile Results	
First name: Last name: Email: Time zone:	
About me:       Image: None   Image: No	▼ Size ▼
Gender:  Country: DOB	





## 5 Summary

In this exercise you built the foundation for our sample application and learned about application structure that allows you to easily style your application.

You also learned how to create a custom control that has a customizable content area. You will use the control in the sample application. You learned how to display Notes documents in XPages using form properties and simple data binding.



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