

Course Title: Basic Applications for Lotus Domino Designer 6
Course Code: DDBA6
Product: Lotus Notes/Domino R6
Provider: wareSource
Duration: 4 days
Topics/Pages: 42 topics / 660 pages
Price (US dollars): NA

Description

During this course you will thoroughly explore the use of Domino Designer to create applications used by Notes clients and Web browsers. Almost every aspect of application planning, design, security, and testing is covered in this thorough introduction to Domino Designer.

Course goals

This course will teach you how to:

- build applications that can be used by Notes clients and Web browsers
- design applications using Pages, Forms, Fields, Subforms, Views, Framesets, Outlines, Hotspots, Actions, Navigators, Shared Images, and Agents
- work with the Simple Action, @Function, LotusScript, and JavaScript languages
- establish relationships between documents through Field data inheritance and Response Document hierarchy
- assign user rights and roles in the database, form, and view Access Control Lists
- restore deleted documents
- mail-enable an application for workflow applications
- design and configure a database for single database Full Text Search, Site Search, and Domain Search
- utilize design templates to centralize your code changes
- maximize Form and View performance.

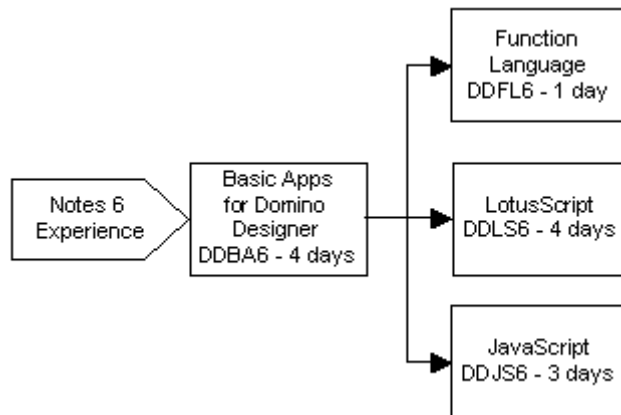
Audience

This course is designed for individuals new to Domino Designer but who have:

- significant experience using the Notes R6 client
- experience with another programming language, or with any worksheet or word processor macro language
- basic knowledge of HTML.

This course only introduces the programming languages used in Domino Designer, and does not require a strong programming background.

This course is part of a series of courses. Follow these paths to learn how to program using Domino Designer to create Notes and browser applications:



Courses later in the series assume that you have mastered the content of earlier courses.

Duration

This course is sold as a 4-day course, but it is unlikely that you can finish all the topics in four days. To finish in four days, it is recommended that you defer the last few topics for self-study. Most training centers allocate five days to cover this material.

Course design

This is a lecture/lab course that follows a task-oriented approach. During the many course exercises you will create a working application from the ground up. As you learn about various aspects of Domino Designer, you will immediately apply the concepts and techniques as you work on your application.

Topic 1: Domino as an Application Server

- Application Server requirements
- Designer metaphor
- How applications are executed
- Client-side code execution
- Programming languages
- Event-driven language
- Adjunct programming tools

Topic 2: Create Database using Domino Designer

- Self-contained design
- Three ways to start Designer
- Create new database
- Server access rights
- Advanced Database Options

- Database properties
- Using database templates
- How designs are automatically maintained
- Database access rights
- Exercise: Create new database
- Domino Designer quick tour
- Designer Panes
- Autocompletion
- Search and replace
- Programmers Pane properties
- Saving the design element
- Test the code
- Exercise: Database/Bookmark Icon
- Designer Bookmarks
- Designer Tools

Topic 3: Application Architecture

- Application types
- Applications "right" for Notes
- Application structure options
- Increasing detail
- Linear process
- Random access
- Data source
- User Interface
- One design, two clients
- Designing for both clients
- Required design changes to support both clients
- Backward compatibility with previous versions
- Course project

Topic 4: Design Pages

- Serving static HTML
- What is a design Page?
- Create Page
- Page properties
- Exercise: Create Pages
- Hotspots
- Link Hotspot
- Exercise: Link to named element
- Computed URL Links for browsers
- Doclink Links
- Removing a Hotspot
- Hotspot button
- Action Hotspot
- Rollover images
- Image maps
- Page events
- Exercise: Add window titles

Topic 5: Database Launch Options

Default database launch property for Notes clients
Default database launch property for browsers
Control database launch
Database Postopen event for Notes clients
Exercise: Database Launch

Topic 6: Page Contents

Orientation
Import HTML
Insert HTML Shared Resource
Pass-Thru HTML
Cascading Style Sheets
CSS attributes of objects
Adding a Style Sheet
Formatted text
Layers
Table type
Nested tables
Create table
Exercise: Add content to Pages
Sections
Pictures
Shared Image Resources
Image resource properties
Exercise: Shared Image Resources

Topic 7: Computed Page Contents

Hide When
Example Hide When formulas
Text pop-up
Formula pop-up
Computed Text
Exercise: Computed Text

Topic 8: Forms

When to use Forms instead of Pages
Form is not the document
Design Form
Designer concerns
Exercise: Design new Form
Form properties
Form Name
Cascaded Form names
Accelerator key assignment
Other Form Info tab properties
Defaults tab
Launch tab
Form Background tab
Exercise: Form properties
Non-scrolling header

Features that browsers don't support
Exercise: Form layout

Topic 9: Fields

Purpose of Fields
Add Field
Edit existing Field
Text properties
Field properties
Data types and Field types
Control tab
Advanced tab
Exercise: Add Fields to Product Form
Input width for "Native OS Style" Fields
Standard Fields
Internal Field names
Field names with built-in functionality
Example of reserved Field name: SaveOptions
Example reserved field: Form
Shared Fields
Add Shared Field to Form
Work with Shared Fields

Topic 10: List Field Properties

Where the choices come from
Static text list
Keyword synonyms
Formula-based lists
Example lookup
Name lookups
View lookup
Checkbox and Radio button options
Exercise: Field Format and Lists
Refresh on change

Topic 11: Rich Text Field Properties

Rich Text Fields
Rich Text Field properties
Interoperability warning
Exercise: Modify Body Field
Rich Text Lite
Exercise: Modify Picture Field
Attach files from browser
Detach attached files
Delete attached files
Display image in browser

Topic 12: Form Actions

Limitations with Form navigation
Inherent Notes client capabilities
Actions or Hotspots--which to use?

- Using @Command
- Cross-client @Commands
- Differences between Notes and browsers
- Action Pane
- Working in the Action Pane
- Create Action
- Action Bar properties
- Using HTML or Java applet
- Action with Children
- System Actions
- Shared Actions
- Hidden Actions
- Exercise: Form navigation using Actions
- Syntax guidelines
- Simple actions

Topic 13: Views

- View Characteristics
- View restrictions
- Browsers and Views
- Folders versus Views
- View updates
- View size
- Create View
- View Name
- Other Create View properties
- Ascertaining the View type
- Customize
- Exercise: Add Views

Topic 14: View Properties

- View properties box
- Style tab
- Advanced tab
- Exercise: Change View properties
- Views and performance

Topic 15: View Column Formulas

- Adding View columns
- Understand the data
- Column options
- Simple Function
- Field name
- Formulas
- Example formulas
- Special View functions
- Document statistics
- Column totals

Topic 16: View Column Properties

- Open Column properties box
- Column Info tab
- Sorting tab
- Format tabs
- Exercise: Column Formulas and Properties
- Exercise: Create AllDocs view
- Advanced tab: Column name
- Advanced tab: Hide column
- Advanced tab: Web links
- Quick Search

Topic 17: View Actions

- Appropriate View Actions
- Exercise: View Actions

Topic 18: View Selection Formulas

- Search Builder selection
- Conditions options
- Select by formula
- Time-based selections
- Select by user name
- Normalizing names
- Select by document property
- Selection by exclusion
- "Fuzzy" selections
- (Not Categorized) documents
- Exercise: Selection Formulas
- Exercise: Sales Rep view
- Exercise: Publish status View

Topic 19: Embedded Views

- Embedded View
- How to embed a View
- Single category view
- Exercise: Single Category View
- Change the look of all Views for Browsers
- Template View override

Topic 20: Calendar Views

- Calendar features
- Create a calendar View
- Style tab
- Font tab
- Calendar Format
- Two types of entries
- Defining the columns
- Exercise: Calendar View

Topic 21: Data Grid Views

- View properties
- View-level edit caveats

- Enabling cell edits
- Column programmatic name
- Inviewedit event code
- NEWENTRY_REQUEST
- Cycling through allowable values
- Exercise: Create Inventory data grid

Topic 22: Framesets

- Default window environment
- What are Frames? Framesets?
- Create Frameset
- Assign Frame content
- Example Frameset
- What usually goes in the Frames
- Linking frames together
- Special targets
- Special Frame names
- Hand coding Framesets
- Exercise: Framing the application

Topic 23: Outline Controls

- Default Outline
- Custom Outline
- Create an Outline
- Step 1: Create Outline
- Step 2: Embed Outline
- Info tab properties
- Font tab properties
- Background tab properties
- Layout tab properties
- Look and Feel #1: Plain
- Look and Feel #2: Color menu bars
- Look and Feel #3: Same graphic
- Look and Feel #4: Different graphics
- Border tab properties
- Exercise: Create and Embed Outline
- Special entries

Topic 24: Form Programming for Notes Clients

- Form flow
- Form processing for Notes client
- Field type and related events
- When formulas compute
- Exercise: Investigate Field formulas
- Entering formulas
- Programming rules
- What Field formulas contain
- @Function syntax
- Debugging Field formulas
- Default Value formula
- Input Translation event

Input Validation event
Computed formula
Exercise: Add Field formulas
Field onBlur event
Field onBlur using Javascript
Language choice for Field operations

Topic 25: Form Programming for Browsers

Form processing for browsers
Exercise: Investigate Field formulas in browser
WebQueryOpen Agent
Field behavior
Field validation using Formulas
Dual-client validation formulas
Submit response using \$\$Return Field
Open a Page or Form after the submit
Useful @functions
Purpose of the WebQuerySave Agent
Create WebQuerySave Agent
Referencing the current document
To save or not to save?
Print statements
Exercise: WebQuerySave Agent
Web Agent errors
Custom error pages for users

Topic 26: Form Performance

General Form performance
Notes client advantages
Browser Form performance
Unsupported features on browsers
Resources

Topic 27: Field Data Inheritance

Why inherit data?
Configuring inheritance
Using inheritance
Inheriting data across databases
Browser exceptions
Exercise: Inherit data

Topic 28: Response Documents

Three types of documents
Designing Response documents
@Commands to create Response documents
Response with reference
URL to create Response document
Viewing Response documents
Designing a hierarchical View
Selecting Response documents in a View
Common columns

Responses only column
Responses only column formula
Indicating Response documents in a View
Exercise: Response documents

Topic 29: Authentication and User Names

Security model
General observations
Register Notes users
Register browser users
Added browser security
Force browser authentication
Authentication process
Anonymous users
Distinguished Names
"Authenticated Name"
Alternate name
Domino Administrator Responsibilities
Developer responsibilities

Topic 30: Access Control List

Access Control List
ACL Entries
Add users to the ACL
Acceptable ACL Entries
Standard settings
User Type
Maximum Internet name & password access
Special rights
Roles
Create and assign a role
Enforce local security
Exercise: Define ACL and roles

Topic 31: Form, View, and Document Security

Form security
View security
Exercise: Design element access
Name storage
@UserName and data type
Authors Fields
Authors Fields you should always include
Readers Fields
Implied readership
Readers/Authors Fields interaction
Author access and replication
@Name
Determining user access
@Author
Determining user role membership
Exercise: Refining access

Topic 32: Controlled Access Sections

Controlled access sections refine authorship
Define controlled access section
Controlled access sections and security
Controlled access sections and signed Fields

Topic 33: Field Security

Editor access to update
Example: Editor access to update
When to encrypt Fields
Task 1: Create the Secret Key
Task 2: Distribute the key
Task 3: Enable the Field(s) for encryption
Task 4: Associate the key
Encryption caveats
Changing/ removing encryption

Topic 34: Shared Resources

Using shared resources
Inheriting a shared resource design

Topic 35: Programmed Table Row Display

Computed table rows versus Hide When
Programming the table row display
Exercise: Ratings as stars

Topic 36: Subforms and Embedded Editors

Subforms
Subform examples
Create Subform
Exercise: Create Subform
Computed Subforms
Example: Computed Subform
Insert a computed Subform
Exercise: Computed Subform
Exercise: Fixing a small navigation problem
Embedded Editors

Topic 37: Update Agents

Agent categories
Four components of every Agent
Create new Agent
Agents run On event trigger
Agents run On schedule trigger
How Formulas operate in Update Agents
Agent storage
Agent execution rights
Trigger: Running the Agent from the menu
Trigger: Running an Agent from the browser
Search: SELECT statements
Search: Full Text Search

Search: Cannot select Response documents
Action: Field operations
Examples: Field and Document-related Actions
Exercise: Fix values for existing documents

Topic 38: Mailing Documents

Characteristics of mail-enabled applications
Mail mechanisms
SendTo value
Mailing to a person in your Notes domain
Mailing to a person in another Notes domain
Mailing through gateways
Mailing to a group
Name spoofing
Mailing to a mail-in database
User mail environment
Mail triggers
Trigger 1: Form property
Mailed documents become new documents
Trigger 2: MailOptions field
Mail-related fields
SaveOptions field
Other useful fields
Ensure documents are mailed once
Trigger 3: @Command([MailSend])
Trigger 4: @MailSend without arguments
Exercise: @MailSend without arguments
@MailSend and scheduled Agents
Trigger 5: @MailSend with parameters
Exercise: @MailSend with parameters
Trigger 6: Notes Mail memo
Three mail-enabled models
Model 1: Document routing
Resolving duplicate documents
Model 2: Duty/status change notification
Model 3: Hybrid model

Topic 39: Document Deletions

Soft deletions
Step 1: Database soft deletions property
Step 2: Create Deletions View
Step 3: Create the Restore and Purge Agents
Step 4: Create the Actions in the Deletions View
Using the SoftDeletions View
Exercise: Soft Deletions View
Soft deletions and security

Topic 40: Full Text Search

Create full text index
Full text index properties
Exercise: Create Index

- Limitations of Full Text Search
- Enable multi-database search
- Searching multi database indexes
- Server configuration for Domain Search

Topic 41: Database Rollout

- Add Form Window titles
- About/Using This Database
- Set Database properties
- Verify ACL
- Notes client ECLs and signatures
- Re-sign the design
- Manually change the ECL
- Enforcing standard ECLs
- Copy database to Domino Server
- Database Catalog and Domain Catalog
- Libraries
- Librarians
- Create library
- Exercise: Publish application
- Notify Users

Topic 42: Design Maintenance

- Creating a Database Template
- Using a Database Template
- Default ACL settings
- Exercise: Database Templates
- Design administration
- Create a Design Template
- Template Manager
- Entire database refresh
- Specific design element refresh
- Blocking design element refresh/replace
- Copy and paste design elements
- Manual design refresh
- Exercise: Design Templates
- Hide design
- Design template strategies
- One-to-many
- One-to-one
- Example: One to one
- Many-to-one
- Where to work
- Design Synopsis
- FORMS.NTF