

### What You Will Learn

- Generic database messages
- Scaffolding your UI using database metadata
- The include tag and ActionPacks
- How to tweak Model-Glue using ColdSpring

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# Generic Database Messages

- Model-Glue comes with generic messages you can broadcast to interact with your database
- Works with Reactor or Transfer ORMs
- · Very handy and time-saving

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#### ModelGlue.GenericList

• Lists records for the specified table

 This will create a query in the event and viewstate named CustomerQuery ordered by the LastName field.

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# ModelGlue.GenericList Arguments

#### Object

• The object type to list

#### QueryName (optional)

- The name of the query.
- Defaults to Object & Query (CustomerQuery)

#### Criteria (optional)

A list of values from the event to use as where criteria

#### OrderBy (optional)

A column to order the guery by

#### Ascending (optional)

• If true, indicates if the order is ascending

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#### ModelGlue.GenericRead

• Reads a Record for the specified table

 This will create a Record in the event and viewstate named CustomerRecord loaded based on the customerId event value.

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# ModelGlue.GenericRead Arguments

#### Object

• The object type to read

#### RecordName (optional)

- The name of the resulting Record.
- Defaults to Object & Record (CustomerRecord)

#### Criteria (optional)

- A list of values from the event to use as criteria when loading the Record
- If not provided or not matched a new Record will be created

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#### ModelGlue.GenericCommit

• Commits a Record to the database

 This will save a CustomerRecord to the database based on the customerId event value.

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# ModelGlue.GenericCommit Arguments Object • The object type to commit

#### Criteria (optional)

- A list of values from the event to use as criteria when committing the Record
- If not provided or not matched a new Record will be created

- RecordName (optional)

   The name of the resulting Record.
- Defaults to Object & Record (CustomerRecord)

#### ValidationName (optional)

- The name of the resulting validation structure.
- Defaults to Object & Validation (Customer Validation)

- Properties (optional)

  A comma separated list of properties to try to commit from the Event.
- Defaults to all properties in a Record



### ModelGlue.GenericCommit Results

• ModelGlue.GenericCommit will add one of two results. You can map them to events as you want:

#### commit

• This is added when the Record is successfully committed.

#### validationError

• This is added when there are errors validating the Record before committing it.



#### ModelGlue.GenericDelete

• Deletes a Record from the specified table

• This will delete a Record from the Customer table based on the customerId event value.



### ModelGlue.GenericDelete Arguments

• The object type to delete

#### Criteria (optional)

 $\bullet\,$  A list of values from the event to use as criteria when deleting the



# Scaffolding CRUD

- Model-Glue can automatically generate basic user interfaces for CRUD functions
- The term Scaffolding comes from construction
- A rough outline of your application
- Useful for quick CRUD forms

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### <scaffold>

- Defines event handlers for the specified object
- The <scaffold> tag is an extension of the <eventhandlers> tag and can hold all the same children.
- Generates List, View, Edit, Commit, Delete events in the format Object. Event. For example: Customer List

<scaffold object="Customer" />

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# Viewing Scaffolds

- To view a scaffold go to a scaffold event such as Customer.List
- http://localhost/index.cfm?event=Customer.List

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# Broadcasts, Results and Views

- Because the <scaffold> tag simply is an extension on the <event-handler> tag it can hold all of the same child tags.
- Easily allows use of results for templates,
- Easily allows for use of messages for security, etc.

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# Scaffold Only What You Want

 Configure Model-Glue to generate only the scaffolds you want:

 Or, use the Scaffold tag type attribute to indicate what should be generated:

<scaffold object="Customer" type="List,View">

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### **Customize Scaffolds**

- Scaffolds are generated into that path configured in ColdSpring.xml
  - generatedViewMapping
- This is always the last directory Model-Glue looks in for a view
- Copy the generated view to another view directory and modify it
- Changes to your database will not be reflected

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# The <include> Tag

- Allows developers to include entire Model-Glue applications.
- Applications are merged together.
  - Unlike using ModelGlue\_APP\_KEY
- Allows for creation and usage of "ActionPacks".

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## The <include> Tag

- Used directly under the <model-glue> tag.
- Includes a ModelGlue.xml file.
- Imports all of the event handlers and configuration as if, combined, they were one big XML file.

<include template="/ActionPackExample/Fortune/config/ModelGlue.xml" />

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## Include Tips

- Create one root application that includes additional XML files.
- Prefix event names and views with the included application name. (Fortune.ShowFortune or Fortune.dspFortune.cfm)
- Use <config> tags to add additional
   ColdSpring.XML files and view mappings.

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# <config> Tag

- Used only with ActionPacks
- To include additional ColdSpring configuration
- To include additional view mappings.

### **ActionPacks**

- There are a few ActionPacks available in the wild
- Model-Glue comes with one ActionPack
  - Email
- There may be a market for commercial ActionPacks

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# Customize The Model-Glue Framework

- Model-Glue is configured by ColdSpring
  - /modelglue/unity/config/Configuration.xml
- Model-Glue's Configuration.xml is loaded before your ColdSpring.xml
- Settings in your Configuration.xml override those in the Configuration.xml
- Allows you to wire in your own versions of Model-Glue core files

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# Customize The Model-Glue Framework

- Because you can customize the core framework you can change how parts of the framework behave.
- For example, you can change the generic lists and deletes to use soft deletes.
- Difficult, but can theoretically work for any part of Model-Glue
- May or may not be forward compatible through major versions

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# Things You Didn't Learn

- How to integrate Model-Glue with Flex
  - The Flex integration stuff is currently checked into Subversion
- How to announce asynchronous messages
  - Uses Sean Corfield's concurrency library

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### What You Learned

- How to use Generic Database Messages
- How to use Scaffolding
- Ways to customize Model-Glue
- Some more areas for study

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## Questions and Answers

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# The End!

- Thank you very much for attending Enterprise ColdFusion with Model-Glue.
- I hope it was all you expected and more!

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