

What You Will Learn

- How to configuring Model-Glue settings
- Default Messages and Events
- View Values
- Exit Actions (XFAs)
- Message Arguments
- Performance Tips

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Configuring the Framework

- Model-Glue is configured by ColdSpring
- Edit ColdSpring.xml
 - Located under /Config by default
- Can (and should) be used to configure more than just Model-Glue (more on this later)

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Model-Glue Configuration

reload – boolean

- Indicates if the framework should be reloaded on each request.
- True = slow, but good for development
- False = fast, and good for production

rescaffold – boolean

- Indicates if scaffolds should be regenerated on each request (more on scaffolds later).
- ullet True = slow, but good for development
- False = fast, and good for production

debug – boolean

Indicates if the Model-Glue debug output should be shown.

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Model-Glue Configuration

defaultEvent - string

Specifies the name of the default Event Handler

reloadKey - string

- Specifies the name of the a argument used to reload the application manually.
- "init" by default"

reloadPassword - string

- Specifies the value of the reloadKey that will cause the framework to reload
- "true" by default

viewMappings - string

• A comma separated list of locations where Model-Glue will look for views

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Model-Glue Configuration

generatedViewMapping - string

 Specifies the directory where Model-Glue will generated views for scaffolds

configurationPath - string

• The path to the ModelGlue.xml configuration file.

scaffoldPath - string

The path to the Scaffolds.xml configuration file.

statePrecedence - string

- Specifies which has precedence when a value exists in both the form and url scopes.
- Options are: form (default) or url.

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Model-Glue Configuration

eventValue - string

• Specifies which value in the event specifies the event handler to execute.

defaultTemplate - string

 This is used to indicate the name of the your root file (default.cfm, index.cfm, etc.)

defaultExceptionHandler - string

This indicates the name of an event handler that will be fired when there is an unhanded exception.

defaultCacheTimeout - string

• Indicates how many minutes cached items can exist.

defaultScaffolds - string

Indicates which events to scaffold.



About viewMappings

- The viewMappings configuration value specifies a comma separated list of paths to look in for CFM files specified in the <include> tag.
- The paths are searched in the order specified.

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Reloading the Framework

- By default the framework reloads on each request.
 - Bad for production, good for development
- When configured not to automatically reload use the configured reloadKey and reloadPassword.
 - http://localhost/index.cfm?reload=true

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Default Events and Messages

 Model-Glue provides several built in "hooks" so you can do things at certain points during execution.

Default Events:

- ModelGlue.OnRequestStart
- ModelGlue.OnQueueComplete
- ModelGlue.OnRequestEnd

Default Messages:

- OnRequestStart
- OnQueueComplete
- OnRequestEnd

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Default Events

- ModelGlue.OnRequestStart
 - Executes before all other event handlers

<event-handler name="ModelGlue.OnRequestEnd">
 <!-- broadcasts, results and views go here -->
</event-handler>

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Default Events

- ModelGlue.OnQueueComplete
 - Executes after all messages are broadcast but before views are included

<event-handler name="ModelGlue.OnQueueComplete">
 <!-- broadcasts, results and views go here -->
</event-handler>

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Default Events

- ModelGlue.OnRequestEnd
- Executes after all views are included
- Good for a single generic template

<event-handler name="ModelGlue.OnRequestEnd">
 <!-- broadcasts, results and views go here</pre> </event-handler>



Default Messages

- OnRequestStart
 - Executes before all Event Handlers
 - ModelGlue.OnRequestStart Event Handler is ignored if OnRequestStart message is used.

<message-listener message="OnRequestStart"</pre> function="DoSomething" />



Default Messages

- OnQueueComplete
 - Executes after all messages have been broadcast and before views are included.
 - ModelGlue.OnQueueComplete Event Handler is ignored if OnQueueComplete message is used.

<message-listener message="OnRequestStart"
function="DoSomething" />





Default Messages

- OnRequestEnd
 - Executes after all event handlers have been processed
 - ModelGlue.OnRequestEnd Event Handler is ignored if OnRequestEnd message is used.

<message-listener message="OnRequestComplete"</pre> function="DoSomething" />



I am #viewstate.getValue("myself")#

- The Myself viewstate value holds the default file name and the event value
 - Example: index.cfm?event=
- Can be used in links or form actions...

Example

- Would result in...
- Example

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View Values

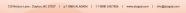
- Uses <value> tags in a <include> tag.
- Sets value into the ViewState

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Exit Events

- Uses <value> tags in <include> tags.
- A common technique in Fusebox (XFAs)
- Provide values to views for event names
- A good technique to deal with event names changing overtime
- Useful in changing the flow of an application
- Allows configuration to show a map of the application.
 - "Event X has links to A, B and C."





Exit Event Example

ModelGlue.xml

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dspMyView.cfm <fset myself = viewstate.getValue("myself") /> <fset xe.Home = viewstate.getValue("xe.Home") /> <fset xe.Recent = viewstate.getValue("xe.Recent") /> <fset xe.Recent = viewstate.getValue("xe.Recent") /> <foutput> Home Recent Fortunes </cfoutput> Recent Fortunes </cfoutput>

Exit Event Example Results in... Home Recent Fortunes Andex.cfm?event=Fortune.ShowRecentFortunes Recent Fortunes Recent Fortunes <a href="index.cfm?event=Fortunes.ghowRecentFor

Message Arguments

- Uses <argument> tags in <message> tag.
- Additional data that is passed along with messages
- Useful for defaulting values
- Useful for passing data into generic events

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Message Arguments

ModelGlue.xml

<message name="NeedFortune" />
 <argument name="defaultCategoryId" value="1" />
</message>

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ModelGlue.xml <ffunction name="DoGetFortune" access="public" returnType="void" output="false"> <ffargument name="event" type="any"> <ffargument name="event" type="any"> <ffargument name="event" ('defaultCategoryId") /> <ffset var defaultCategoryId = arguments.event.getArgument('defaultCategoryId") /> <ffset var categoryId = arguments.event.getValue("categoryId", defaultCategoryId) /> <ffset arguments.event.getValue("fortune", variables.Fortune.getFortune(categoryId)) /> </ffunction>

Performance Tips

- Set reload to false
 - Even when developing, if you want
- Set rescaffold to false
- Disable ColdFusion debugging
 - Don't enable Report Execution Times!!
- Enable trusted cache
- In production only

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What You Learned

- The nitty gritty of Model-Glue configuration
- Model-Glue Default Events and Messages
- How to create Exit Events using include values
- How to pass arguments to controllers
- Tips for improving performance

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Questions and Answers

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Exercise

- Use a new message to log fortunes into the session scope.
- Create a new page to display the recent fortunes.
 - Use an event argument to control the number to show.
- Update all views to use "myself" and Exit Events
- Put the application into a production-ready configuration

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Discussion

- What was hardest about this last exercise?
- Are you beginning to see some exciting possibilities with Model-Glue?
- Does Model-Glue seem very complex?
- What problems are you running into?
- What are you finding to be easy?

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