



# Developer Training

January 28<sup>th</sup> – March 1<sup>st</sup>, 2013

Location: Bloomington, IN

\* - See topic breakdown for items with asterisk

Monday, January 28 <sup>th</sup> , 2013	
9:00 am	<b>Training Starts</b>
9:00 am – 9:15 am	Introduction
9:15 am – 9:25 am	KRAD Benefits & Goals
9:25 am – 9:35 am	KRAD Modules & Development Stack
9:35 am – 9:45 am	KRAD Packages
9:45 am – 10:00 am	KRAD Application Architecture
10:00 am – 10:15 am	Data Objects & ORM
10:15 am – 10:30 am	<b>Break</b>
10:30 am – 11:00 am	The Data Dictionary
11:00 am – 12:00 pm	Overview of the UIF*
12:00 pm – 1:00 pm	<b>Lunch</b>
1:00 pm – 2:00 pm	The View* ( <i>Exercises 8, 9, 10</i> )
2:00 pm – 2:30 pm	Fields and Labels ( <i>Exercise 11</i> )
2:30 pm – 3:00 pm	Data/Input Fields* ( <i>Exercise 12, 13, 14, 15, 16, 17, 19</i> )
3:00 pm – 3:15 pm	<b>Break</b>
3:15 pm to 5:00 pm	Continued ...
5:00 pm to 5:30 pm	<b>Daily Recap</b>
Tuesday, January 29 <sup>th</sup> , 2013	
9:00 am	<b>Training Starts</b>
9:00 am – 10:15 am	Continued ...
10:15 am – 10:30 am	<b>Break</b>
10:15 am – 12:00 pm	Actions* ( <i>Exercise 19, 20</i> )
12:00 pm – 1:00 pm	<b>Lunch</b>

1:00 pm to 1:30 pm	Images and Links ( <i>Exercise 21, 22</i> )
1:30 pm to 2:00 pm	Message Fields ( <i>Exercise 23</i> )
2:00 pm to 2:30 pm	Rich Messages ( <i>Exercise 24</i> )
2:30 pm to 3:00 pm	Overview of Groups ( <i>Exercise 25</i> )
3:00 pm to 3:15 pm	<b>Break</b>
3:15 pm to 3:30 pm	Working with Headers ( <i>Exercise 26</i> )
3:30 pm to 5:00 pm	Group Layout Managers ( <i>Exercise 27, 28, 29</i> )
5:00 pm to 5:30 pm	<b>Daily Recap</b>
<b>Wednesday, January 30<sup>th</sup>, 2013</b>	
9:00 am	<b>Training Starts</b>
9:00 am to 10:15 am	Continued ...
10:15 am – 10:30 am	<b>Break</b>
10:30 am to 12:00 pm	Collections ( <i>Exercise 30, 31, 32</i> )
12:00 pm – 1:00 pm	<b>Lunch</b>
1:00 pm to 3:00 pm	Continued ...
3:00 pm to 3:15 pm	<b>Break</b>
3:15 pm to 3:45 pm	<b>2.3 Team Discussions</b>
3:45 pm to 4:30 pm	Widgets* ( <i>Exercise 33, 34, 35, 36</i> )
4:30 pm to 5:00 pm	Conditional Logic* ( <i>Exercise 37, 38, 39, 40, 41</i> )
5:00 pm to 5:30 pm	<b>Daily Recap</b>
6:30 pm	<b>Team Dinner!!!</b>
<b>Thursday, January 31<sup>st</sup>, 2013</b>	
9:00 am	<b>Training Starts</b>
9:00 am to 10:00 am	<b>Coding Standards</b>
10:15 am – 10:30 am	<b>Break</b>
10:30 am – 11:30 am	Conditional Logic Continued ...
11:30 am – 12:00 pm	Progressive Disclosure and Component Refresh ( <i>Exercise 42</i> )
12:00 pm – 1:00 pm	<b>Lunch</b>
1:00 pm – 1:30pm	Disable ( <i>Exercise 43</i> )
1:30 pm – 2:00 pm	Event Handling ( <i>Exercise 44</i> )

2:00 pm – 3:00 pm	Dialogs ( <i>Exercise 45</i> )
3:00 pm to 3:15 pm	<b>Break</b>
3:15 pm to 3:45 pm	Lookup/Inquiry Views ( <i>Exercise 46, 47</i> )
3:45 pm to 5:00 pm	Maintenance/Transactional Document Views ( <i>Exercise 48, 49</i> )
5:00 pm to 5:30 pm	<b>Daily Recap</b>
<b>Friday, March 1<sup>st</sup>, 2013</b>	
9:00 am	<b>Training Starts</b>
9:00 am to 10:15 am	Deep Code Dive: The View Lifecycle
10:15 am – 10:30 am	<b>Break</b>
10:30 am to 11:00 am	Deep Code Dive: Spring MVC Configuration
11:00 am – 12:00 pm	<b>Questions and Wrap-Up</b>
12:00 pm – 1:00 pm	<b>Training Ends</b>

## Topic Breakdown

### The Data Dictionary

- Attribute Definitions
- Constraints
- State-based Validation
- Data Object Entries
- Services

### Overview of the UIF

- Component Architecture
- Component Interface (common properties)
- Types of Components
- Component Library
- Rendering Process

### The View

- Spring Controller/Form
- Request URLs
- View Types
- Navigation
- Breadcrumbs
- View Theme
  - CSS/JS
  - Images
- Application Header/Footer

### Data/Input Fields

- Data Binding
  - Binding Info
  - Property Editors
- Default Values
- Data Dictionary Backing
- Types of Controls

- Multi-Value Controls and Options
- Data Field Messages
- Read Only Display
  - List Display
  - Multi-Line Display
- Quickfinders and Inquiries
- Field Queries and Informational Properties

### Actions

- Action Rendering
- Server/Client Requests
- Action Label
- Method to Call
- Action Images
  - Placement
- Ajax Requests
  - Refresh Id/Property Name
  - Return Type
  - Success/Error Callback
- Pure JS Requests
- Pre-Action
  - Pre-Submit Call
  - Client Side Validation, Dirty Validation
  - Loading Message, Blocking
- Action Parameters, Additional Data
- Jump To, Focus

### Other Elements/Fields

- Image
- Iframe
- Space
- GenericField

### Collections

- Binding
- Add Line
- Line Actions
- Sub-Collections
- Layout Managers
  - Table
    - Action Column
    - Sequence Column
    - Add Line
      - Separate Add Line
      - Add Button
      - Add via Lightbox
    - Master/Detail
    - Totals and Grouping
  - Stacked
    - Line Summary
    - Wrapper Group
- Collection Filters
- Display Size

### Other Groups

- Accordion Group
- Disclosure Group
- Link Group
- Navigation Group
- Tab Group
- Tree Group
- Reordering Group

### Widgets

- Help

- Tooltip
- Lightbox
- Growls
- Creating new Widgets

### Conditional Logic

- Expressions
- Component Context
- Expression Functions
- Component Modifiers
- Property Replacers
- Component Finalization
- Component Factory