18 Invaluable Lessons on ADF-JSF Interaction

- 1. An immediate command executes the action and actionListener in phase 2. Apply Request Values and then jumps to phase 6. Render Response, skipping validation and model update phases.
- 2. Using an immediate command, the UI components do NOT re-evaluate their underlying value binding, possibly showing stale data
- 3. af:resetActionListener does NOT reset child regions, use ResetUtils.reset() instead.
- 4. Always use ComponentReference in component binding getter/setter methods
- 5. Never use component binding in session-scoped beans, even ComponentReference won't be safe then.
- 6. When immediate="true" on Editable UI Component then:
 - a. Component validation is processed in phase 2. Apply Request Values
 - b. The validated and converted value is stored on the component
 - c. valueChangeListener is also called in this phase
- 7. Never set immediate="true" on an editable UI component, it prevents you from cancelling/abandoning a page.
- 8. You can programmatically execute JSF lifecycle phases 3 and 4 on a UI component:
 - a. comp.processValidations(FacesContext.getCurrentInstance())
 - b. comp.processUpdates(FacesContext.getCurrentInstance())
- 9. Items not in any sub-form are still processed in the JSF lifecycle when submitting a sub-form.
- 10. Layout gets messed up when using sub-forms. Use panelFormLayout within each subForm and labelWidth property to clean up.
- 11. Partial page refresh does not work across sub-forms.
- 12. Auto-submitted fields use ADF optimized lifecycle preventing premature validation on other fields
- 13. The components that are processed by ADF optimized lifecycle can be configured using partialTrigger property. This is known as Cross Component Refresh
- 14. Values set in value change listeners might be overridden in model update phase if not coded correctly.
- 15. Use programmatic PPR instead of partialTriggers property to prevent components to be processed by ADF optimized lifecycle, avoiding premature validation
- 16. To add components that should be processed in optimized lifecycle, the partialTrigger property must point to the boundary component
- 17. To show/hide a component, the parent component should be refreshed
- 18. Write previous 17 lessons down, print them, put them on the wall, learn them by heart, and reiterate them every week, it will save you tons of frustration!

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