

JSF Component Terminologies

- UI Component
- Renderer
- Validator
- Converters
- Events and Listeners
- Messages

Defining the JSF Lifecycle

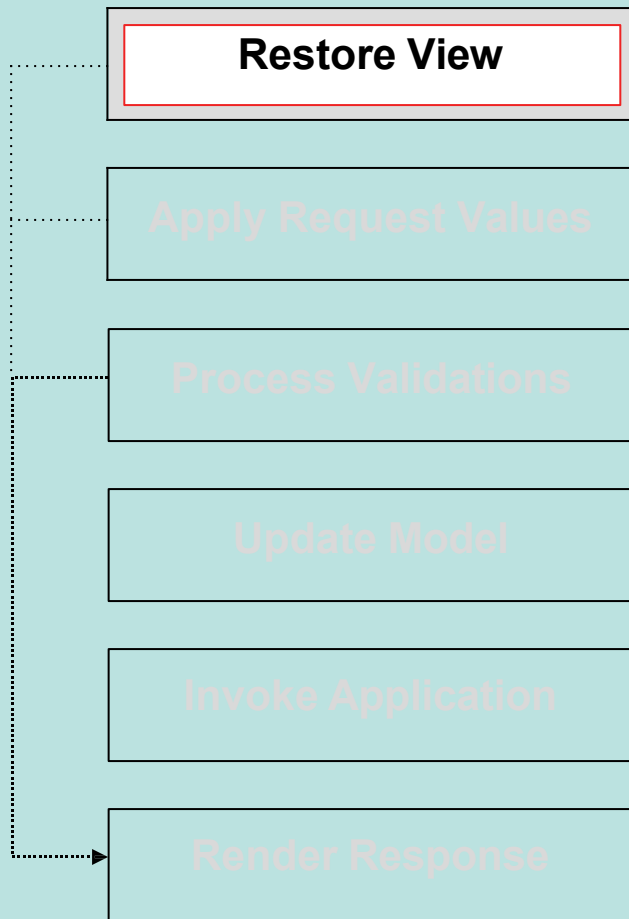
JSF Lifecycle:

- Is a series of stages through which an application request passes before a result is presented to the requestor
- Can be watched and intercepted in a `PhaseListener` class

JSF knows of 6 lifecycle stages:

- Restore View
- Apply Request Values
- Process Validations
- Update Model
- Invoke Application
- Render Response

JSF Request Lifecycle – Restore View



Request comes in through the JSF servlet.

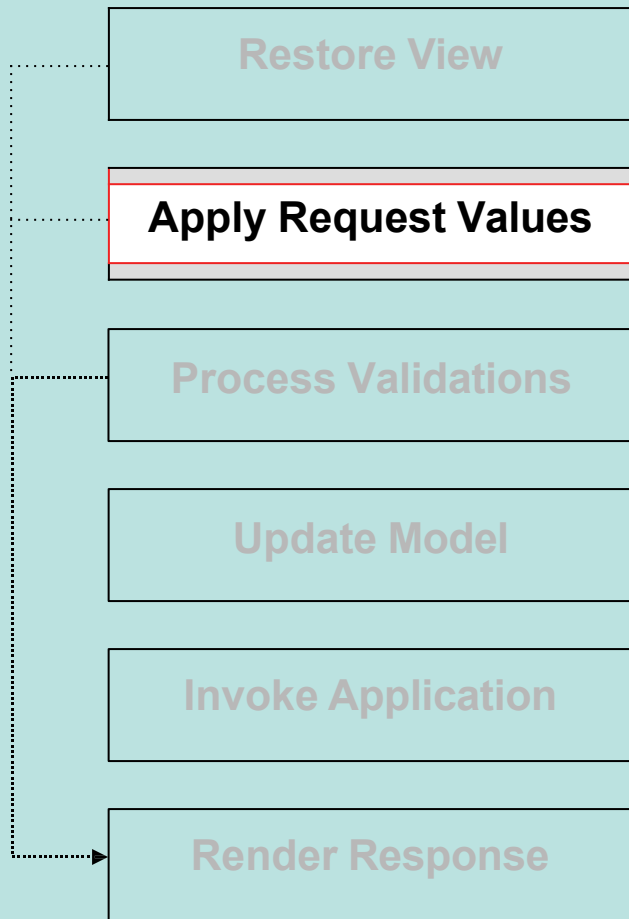
The request is examined for the `viewId` to load; `viewId` is bound to a page.

The `viewId` is used by the framework to look up the components of the page.

- If it is the first time a page is requested, the framework creates the component tree for this page.
- If the page has been requested before, the component tree gets re-assembled.

The current `viewId` is saved in the `viewRoot` property of the `FacesContext`.

JSF Request Lifecycle – Apply Request Values

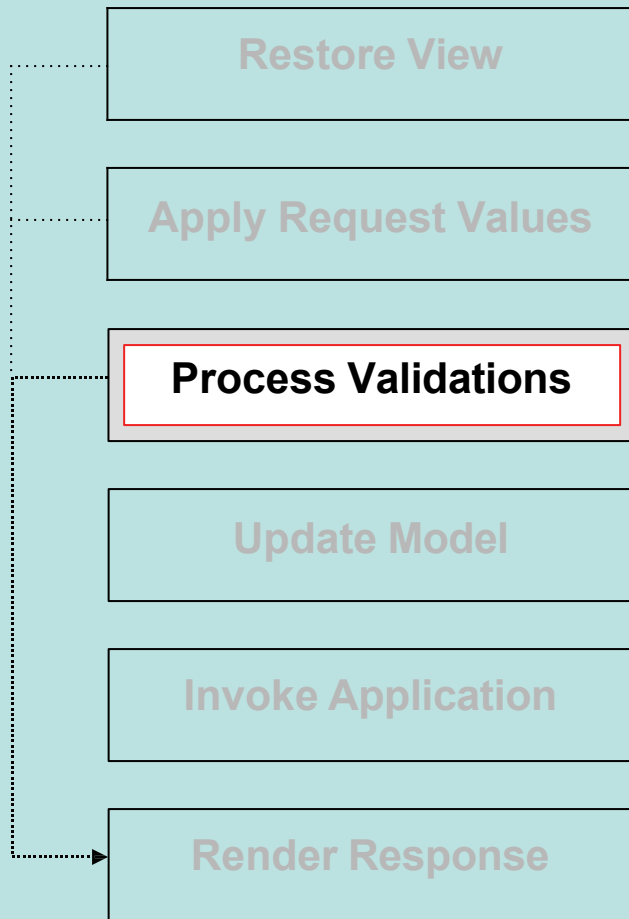


The JSF components are retrieved from the JSF context.

Component values are updated with the values in the request parameter.

If a component's `immediate` property is set to `true`, conversion and validation occur within this step, and value change events fire.

JSF Request Lifecycle – Process Validations

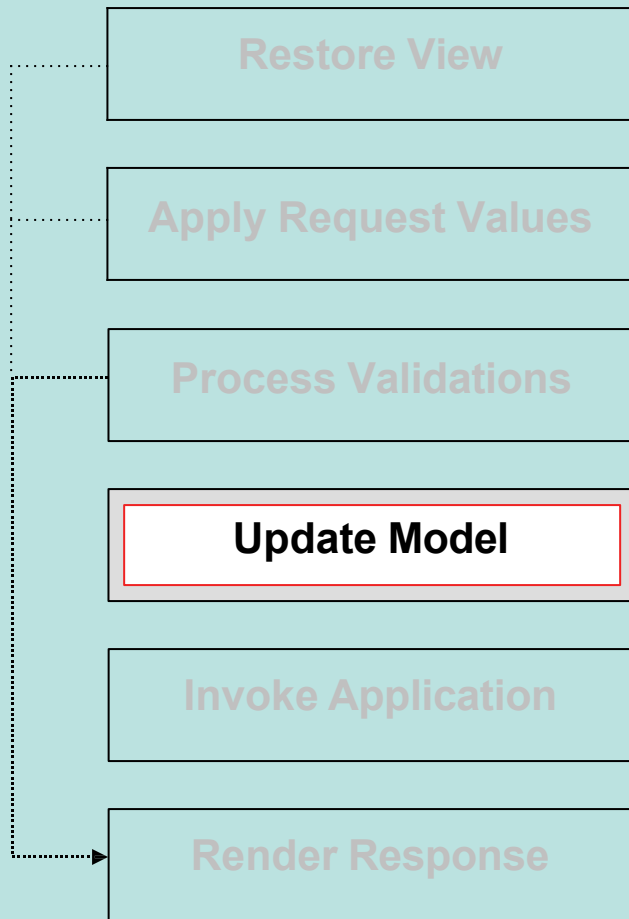


The request parameter values are converted to the expected data types.

Validation is performed for each component value.

If `immediate` is set to `true`, Value change events fire.

JSF Request Lifecycle – Update Model



Until here, the request only updated the components, setting their `submittedValue` property.

Now the model (managed beans or in the ADF case, the binding container) is updated with the validated values

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