# Click Framework v1.2 Cheat Sheet

## Page Processing

- *no-args constructor used to create new Page*
- *context, format, headers and path dependencies set*
- *request parameter values bound to matching named fields*
- **onInit()** – called to complete initialization
- **onSecurityCheck()** – called for security check
- *all the page controls are processed*
- **onGet/Post()** – called for additional processing
- **onRender()** – called for pre-render processing
- *page template and model is rendered*
- **onDestroy()** – called to clean up any resources

## Template Model Includes

- *any public Page fields by field name*
- context – the servlet context path
- format – the Format object
- imports – the PageImports object
- messages – the MessagesMap object
- path – the path of the Page template
- request – the HttpServletRequest object
- response – the HttpServletResponse object
- session – the SessionMap object

## Velocity Directives

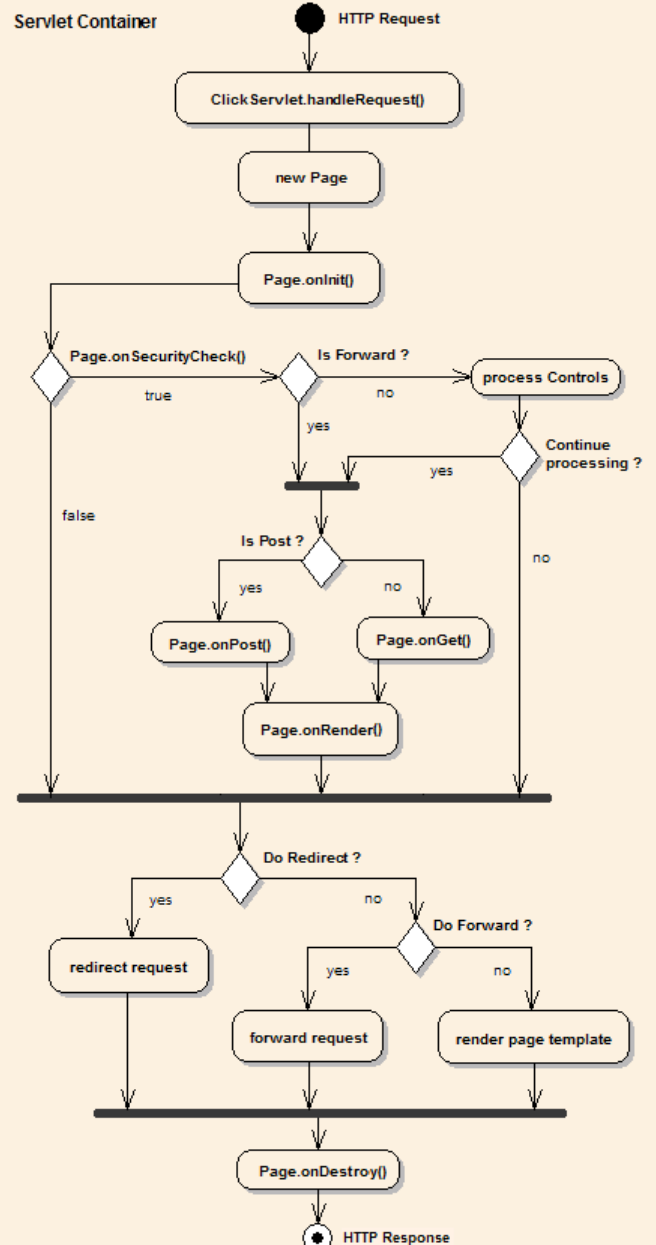- #if #elseif #else #end – conditional statement
- #foreach – list iterator
- #macro – defines Velocity macro
- #set – variable declaration
- #include – include file directly without parsing
- #parse – parse and render the specified template
- #stop – stops the execution of template

## Core Controls

- ActionButton
- ActionLink
- Button
- Checkbox
- Column
- FieldSet
- Form
- HiddenField
- ImageSubmit
- Label
- Option
- OptionGroup
- PageLink
- Panel
- PasswordField
- Radio
- RadioGroup
- Reset
- Select
- Submit
- Table
- TextArea
- TextField

## Extras Controls

- CayenneForm
- CheckList
- ColorPicker
- CreditCardField
- DateField
- DoubleField
- EmailField
- FieldColumn
- FormTable
- IntegerField
- LinkDecorator
- ListPanel
- LongField
- Menu
- NumberField
- PageSubmit
- PropertySelect
- QuerySelect
- RegexField
- TabbedCayenneForm
- TabbedForm
- TabbedPanel
- TelephoneField



## click.xml File

```xml
<?xml version="1.0" encoding="UTF-8"?>
<click-app charset="UTF-8" locale="de">

    <pages package="com.mycorp.page"/>

    <mode value="debug"/>

</click-app>
```

## Click App Modes

- production – caching, warn logging
- profile – caching, info logging
- development – info logging (default)
- debug – debug logging
- trace – trace logging