



# Lick Framework v1.0 Cheat Sheet

## Page Processing

- no-args constructor invoked to create a new Page
- context, format, headers, path dependencies set
- `onInit()` - called to complete initialization
- `onSecurityCheck()` - called for security check
- all the page controls are processed
- `onPost()` - called for additional POST processing
- `onRender()` - called for any 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 the template

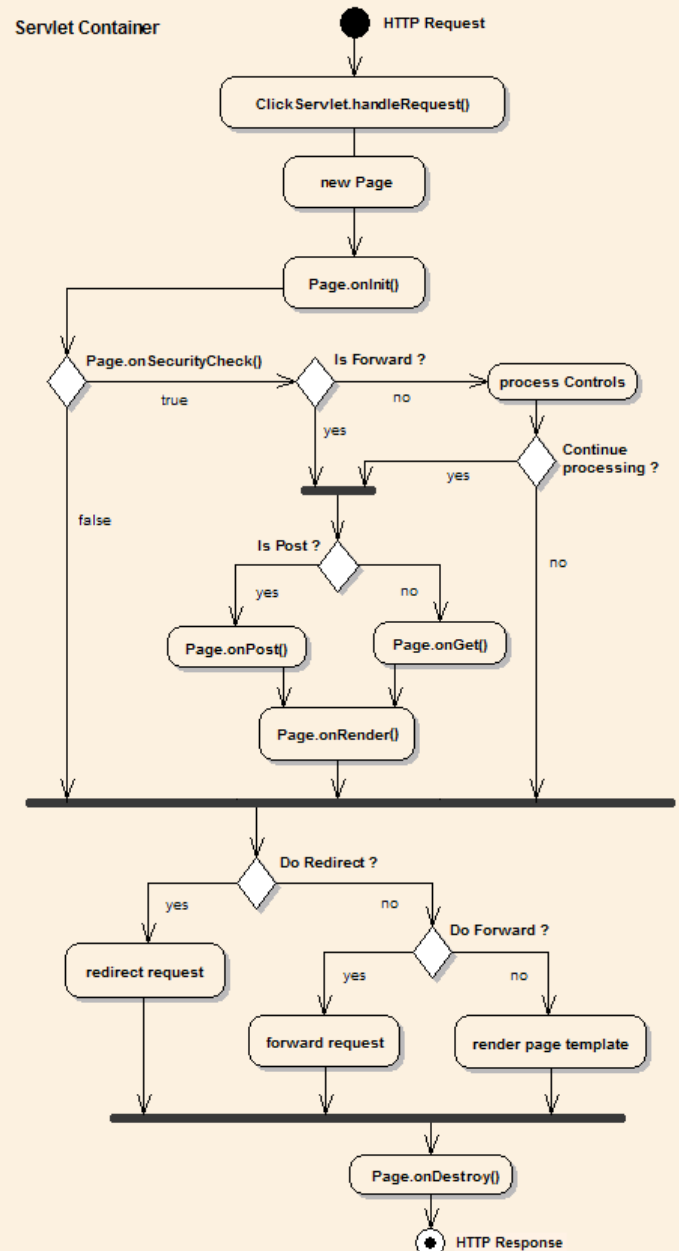
## Core Controls

- 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

Servlet Container



## click.xml File

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

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

    <headers>
        <header name="Pragma" value="no-cache"/>
    </headers>

    <mode value="debug"/>

</click-app>
```

## Click App Modes

- `trace` – trace logging
- `debug` – debug logging
- `development` – development logging (default)
- `profile` – caching, profile logging
- `production` – caching, no logging