



Jetspeed-2 Portal Components v.2.1.2

Project Documentation

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1.1 Portal Overview

Portal Overview

The core portal components are:

- The portal engine
- The [request pipeline](#)
- The aggregation engine
- The portlet container engine integration

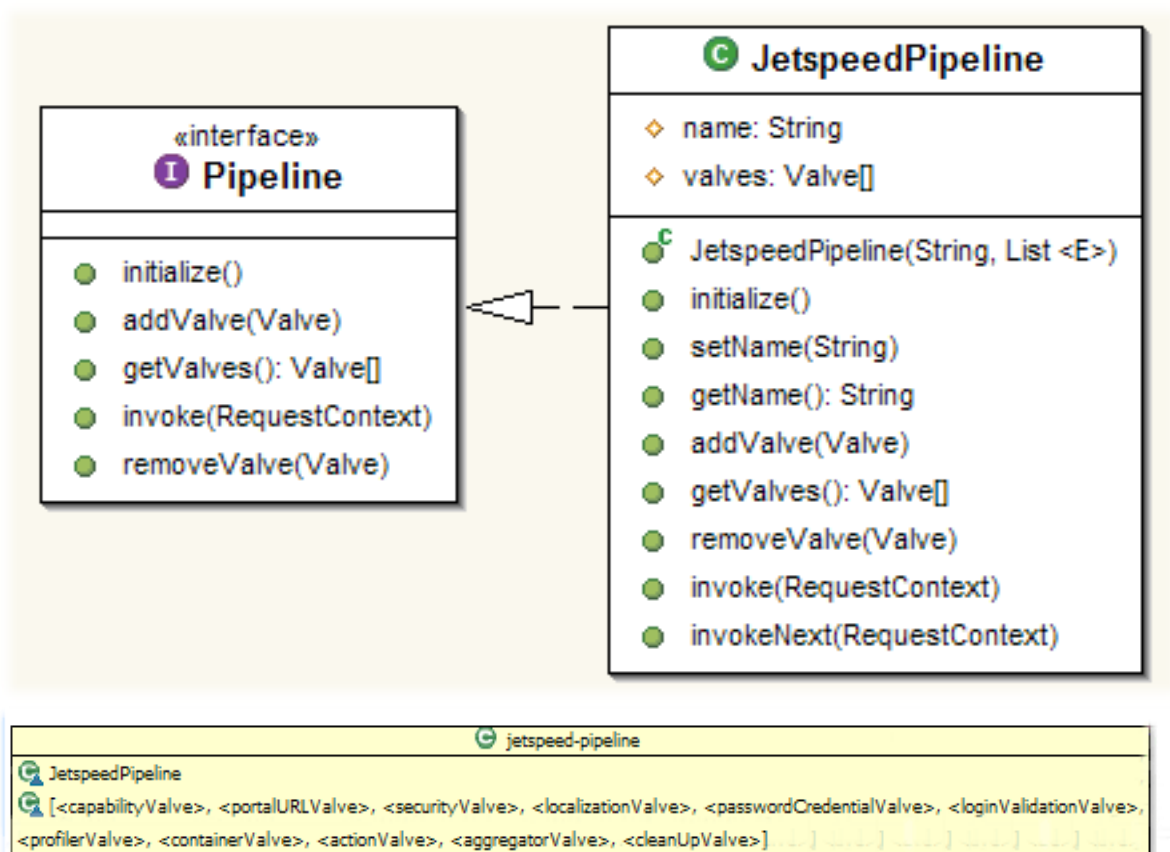
1.2 Request Pipeline

Request Pipeline

In Jetspeed-2, a request pipeline performs individual operations to the request.

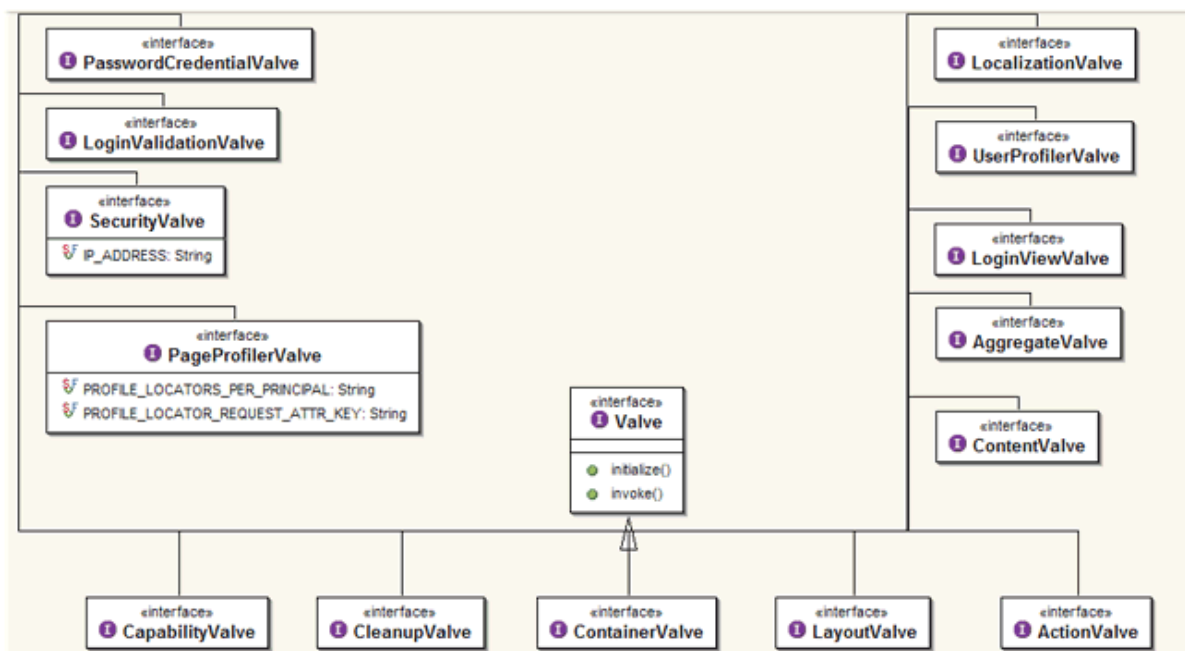
Pipeline Concepts

A Pipeline is made of Valves chained together in a chain of responsibility pattern. The JetspeedPipeline implementation assembles a ordered list of Valves that are processed sequentially.



Jetspeed-2 Valves

Jetspeed-2 provides various type of Valve as illustrated below:



The above valves serve the following purpose:

| Valve Name | Description |
|-------------------------|---|
| ActionValve | Check if <code>PortletAction</code> needs to be processed and process it, if required. Used in the portlet pipeline. |
| AggregateValve | Invokes all Layout components in render mode to aggregate the generated contents and send the result to the client. |
| CapabilityValve | Identifies the browser and adds a <code>CapabilityMap</code> to the <code>RequestContext</code> . |
| CleanupValve | Looks for JSP pages that were pushed onto the <code>org.apache.jetspeed.renderStack</code> request attribute, and attempts to include them. |
| LoginValidationValve | Checks if a login attempt failed and determines the cause. |
| PasswordCredentialValve | Checks the <code>PasswordCredential</code> (only once) after a User is logged in and redirects to a change password page if necessary. |
| SecurityValve | Authenticates the user or redirects to Login if necessary, adds the authenticated Subject to the <code>RequestContext</code> . |