Jetty Component

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1 Abstract

Jetty is a Java Http Server and Servlet Container. This means that you do not need to configure and run a separate web server (like Apache) in order to use java, servlets and JSPs to generate dynamic content. Jetty is a fully featured web server for static and dynamic content. Unlike separate server/container solutions, this means that your web server and web application run in the same process, without interconnection overheads and complications. Furthermore, as a pure java component, Jetty can be simply included in your application for demonstration, distribution or deployment.

SmartFrog allows configuration and life cycle management of distributed applications. Hence, it can be used for deployment of Jetty Server as part of some applications as well.

This document briefly describes the requirements for Jetty Component.

1.1 Document History

[25-Mar-2004] l: v 0.1 – First version of the document

1.2 Assumptions

- It assumes that Jetty is pre-deployed. User has to provide jetty_home as an attribute in the description file.
- Build file for Jetty assumes that jar files for source distribution are already present in ${jetty.lib.dir}.
- The Jetty component has dependency on SmartFrog core. Hence, it assumes that the core is properly build.

2 Requirements

2.1 Functional

- Should start the http server.
- Should allow user to add listeners.
- Should allow user to add contexts (HttpContexts, ServletContexts WebApplicationContexts).
- A debug servlet should be defined that can change the debug setting of a running server.

2.2 Nonfunctional

- Jetty component should be a external component (not part of SmartFrog core framework) and any changes to the component should not require re-building of SmartFrog core.

- User can add this component as part of his application to start the http server with different contexts. Should involve no changes to SmartFrog framework.

3 Current Status

- Jetty Component is deployed with all the content and WebApplication configurations for Jetty demo.
- A debug servlet is defined that can change the debug setting of a running server.

4 OnGoing Work

- Add a generic interface for adding listeners and contexts.

5 Open Issues

- The jetty.jar file is copied to Smartfrog/dist/lib as part of the build process of jetty component. Should we follow any other approach for doing so?