SetCharacterEncodingFilter

package org.apache.servlet;

import java.io.IOException;
import javax.servlet.Filter;
import javax.servlet.FilterChain;
import javax.servlet.FilterConfig;
import javax.servlet.ServletException;
import javax.servlet.ServletRequest;
import javax.servlet.ServletResponse;

/**
 * Example filter that sets the character encoding to be used in parsing the
 * incoming request, either unconditionally or only if the client did not
 * specify a character encoding. Configuration of this filter is based on
 * the following initialization parameters:
 * 
 * <ul>
 * <li><strong>encoding</strong> - The character encoding to be configured
 * for this request, either conditionally or unconditionally based on
 * the <code>ignore</code> initialization parameter. This parameter
 * is required, so there is no default.</li>
 * <li><strong>ignore</strong> - If set to "true", any character encoding
 * specified by the client is ignored, and the value returned by the
 * <code>selectEncoding()</code> method is set. If set to "false,
 * <code>selectEncoding()</code> is called only if the
 * client has not already specified an encoding. By default, this
 * parameter is set to "true".</li>
 * </ul>
 * Although this filter can be used unchanged, it is also easy to
 * subclass it and make the <code>selectEncoding()</code> method more
 * intelligent about what encoding to choose, based on characteristics of
 * the incoming request (such as the values of the <code>Accept-Language</code>
 * and <code>User-Agent</code> headers, or a value stashed in the current
 * user's session).
 * @author Craig McClanahan
 * @version $Revision: 267129 $ $Date: 2004-03-18 11:40:35 -0500 (Thu, 18 Mar 2004) $ */

public class SetCharacterEncodingFilter implements Filter {

// ---- Instance Variables

/**
 * The default character encoding to set for requests that pass through
 * this filter.
 */
protected String encoding = null;

/**
 * The filter configuration object we are associated with. If this value
 * is null, this filter instance is not currently configured.
 */
protected FilterConfig filterConfig = null;

/**
 * Should a character encoding specified by the client be ignored? 
 */
protected boolean ignore = true;

// ---- Public Methods
/**
public void destroy() {
    this.encoding = null;
    this.filterConfig = null;
}

public void doFilter(ServletRequest request, ServletResponse response, FilterChain chain) throws IOException, ServletException {
    String encoding = selectEncoding(request);
    if (encoding != null)
        request.setCharacterEncoding(encoding);
    chain.doFilter(request, response);
}

public void init(FilterConfig filterConfig) throws ServletException {
    this.filterConfig = filterConfig;
    this.encoding = filterConfig.getInitParameter("encoding");
    String value = filterConfig.getInitParameter("ignore");
    if (value == null)
        this.ignore = true;
    else if (value.equalsIgnoreCase("true")
        this.ignore = true;
    else if (value.equalsIgnoreCase("yes")
        this.ignore = true;
    else
        this.ignore = false;
}

protected String selectEncoding(ServletRequest request) {
    return (this.encoding);
}