

BrowserInputModule

sample browser input module to get a client browser name. sample created by [RomanHrivik](#)

cocoon.xconf

```
<component-instance class="com.yourpackage.BrowserModule" logger="core.modules.input" name="browser">
    <default-browser name="unknown" />
    <browser name="explorer" useragent="MSIE" />
    <browser name="netscape" useragent="Mozilla" />
</component-instance>
```

sitemap.xmap

```
<map:match pattern="header">
    <map:generate src="header{browser:clientbrowser}.xml" />
    <map:transform src="header.xslt" />
    <map:serialize type="xml" />
</map:match>
```

Source code

```
package com.yourpackage;

import java.util.ArrayList;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
import java.util.Map;

import org.apache.avalon.framework.configuration.Configuration;
import org.apache.avalon.framework.configuration.ConfigurationException;
import org.apache.avalon.framework.thread.ThreadSafe;
import org.apache.cocoon.components.modules.input.AbstractInputModule;
import org.apache.cocoon.environment.ObjectModelHelper;

/**
 *
 * Browser input module<br>
 * in cocoon.xconf set how you want identify browsers<br>
 * <pre>
 *     <component-instance class="com.yourpackage.BrowserModule" logger="core.modules.input" name="browser"
 /><br>
 *         <default-browser name="explorer" /><br>
 *         <browser name="explorer" useragent="MSIE" /><br>
 *         <browser name="pocketexplorer" useragent="MSPIE" /><br>
 *         <browser name="handweb" useragent="HandHTTP" /><br>
 *         <browser name="avantgo" useragent="AvantGo" /><br>
 *         <browser name="imode" useragent="DoCoMo" /><br>
 *         <browser name="opera" useragent="Opera" /><br>
 *         <browser name="lynx" useragent="Lynx" /><br>
 *         <browser name="java" useragent="Java" /><br>
 *         <browser name="wap" useragent="Nokia" /><br>
 *         <browser name="wap" useragent="UP" /><br>
 *         <browser name="wap" useragent="Wapalizer" /><br>
 *         <browser name="mozilla5" useragent="Mozilla/5" /><br>
 *         <browser name="mozilla5" useragent="Netscape6/" /><br>
 *         <browser name="netscape" useragent="Mozilla" /><br>
 *     </component-instance><br>
 * </pre>
 *<br>
 * in sitemap use {browser:clientbrowser}<br>
 *<br>
 *
 * @author Roman Hrivik
```

```

*
*/

public class BrowserModule extends AbstractInputModule implements ThreadSafe {

    /**
     * element name for browser
     */
    private static final String ELEMENT_BROWSER = "browser";
    /**
     * attribute name for browserName for browser element
     */
    private static final String ATTR_BROWSERNAME_ELEMENT_BROWSER = "name";
    /**
     * attribute name for useragent for browser element
     */
    private static final String ATTR_USERAGENT_ELEMENT_BROWSER = "useragent";
    /**
     * element name for default-browser
     */
    private static final String ELEMENT_DEFAULT_BROWSER = "default-browser";
    /**
     * attribute name for browserName for defaultBrowser
     */
    private static final String ATTR_BROWSERNAME_ELEMENT_DEFAULT_BROWSER = "name";

    /**
     * input parameter name to get type of client browser in sitemap use {browser:clientbrowser}
     */
    private static final String INPUT_PARAMETER_CLIENT_BROWSER = "clientbrowser";

    /**
     * keeps browserConfiguration (browser,agent)
     */
    private List browserList;
    /**
     * default browser to be returned when none from configuration will be founded
     */
    private String defaultBrowser = "";

    /* (non-Javadoc)
     * @see org.apache.avalon.framework.configuration.Configurable#configure(org.apache.avalon.framework.
configuration.Configuration)
     */
    public void configure(Configuration conf) throws ConfigurationException {
        super.configure(conf);

        browserList = new ArrayList();

        Configuration[] parameters = conf.getChildren();

        for (int i = 0; i < parameters.length; i++) {
            String elementName = parameters[i].getName();
            String browserName = parameters[i].getAttribute(ATTR_BROWSERNAME_ELEMENT_BROWSER, "");
            String userAgent = parameters[i].getAttribute(ATTR_USERAGENT_ELEMENT_BROWSER, "");

            if(ELEMENT_BROWSER.equals(elementName)) {

                browserList.add(new BrowserDataConfig(browserName, userAgent));

                if(getLogger().isDebugEnabled()) {
                    getLogger().debug("BrowserModule: conf added: browserName=" + browserName + " userAgent=" +
userAgent);
                }
            }
            else if(ELEMENT_DEFAULT_BROWSER.equals(elementName)) {
                defaultBrowser = parameters[i].getAttribute(ATTR_BROWSERNAME_ELEMENT_DEFAULT_BROWSER, "");
            }
        }
    }
}

```

```

    }

    /* (non-Javadoc)
     * @see org.apache.cocoon.components.modules.input.InputModule#getAttribute(java.lang.String, org.
    apache.avalon.framework.configuration.Configuration, java.util.Map)
     */
    public Object getAttribute(
        String name,
        Configuration modeConf,
        Map objectModel)
        throws ConfigurationException {

        if (INPUT_PARAMETER_CLIENT_BROWSER.equals(name)) {
            /*
             * get the current browser
             */
            if(browserList != null) {
                String userAgent = ObjectModelHelper.getRequest(objectModel).getHeader("User-Agent");
                if(userAgent != null) {
                    // loop over config
                    for (Iterator iter = browserList.iterator();
                        iter.hasNext();
                        ) {
                        BrowserDataConfig config = (BrowserDataConfig) iter.next();

                        if(getLogger().isDebugEnabled()) {
                            getLogger().debug("BrowserModule: checking: userAgent=" + userAgent + " that
contains confAgent=" + config.getUserAgent());
                        }

                        if(userAgent.indexOf(config.getUserAgent()) != -1) {
                            return config.getBrowserName();
                        }
                    }
                }
            }

            /*
             * otherwise return defaultBrowser
             */
            return defaultBrowser;
        } else {
            // unknown attribute
            return null;
        }
    }

    /* (non-Javadoc)
     * @see org.apache.cocoon.components.modules.input.InputModule#getAttributeNames(org.apache.avalon.
    framework.configuration.Configuration, java.util.Map)
     */
    public Iterator getAttributeNames(Configuration modeConf, Map objectModel)
        throws ConfigurationException {

        return browserList.iterator();
    }

    /* (non-Javadoc)
     * @see org.apache.cocoon.components.modules.input.InputModule#getAttributeValues(java.lang.String, org.
    apache.avalon.framework.configuration.Configuration, java.util.Map)
     */
    public Object[] getAttributeValues(
        String name,
        Configuration modeConf,
        Map objectModel)

```

```

        throws ConfigurationException {

            return browserList.toArray();

        }

/**
 * BrowserDataConfig helper class
 *
 * @author hrivik
 */
private class BrowserDataConfig {
    private String browserName;
    private String userAgent;

    BrowserDataConfig() {}

    BrowserDataConfig(String browserName, String userAgent) {
        setBrowserName(browserName);
        setUserAgent(userAgent);
    }

    /**
     * @return browserName
     */
    public String getBrowserName() {
        return browserName;
    }

    /**
     * @param browserName
     */
    public void setBrowserName(String browserName) {
        this.browserName = browserName;
    }

    /**
     * @return userAgent
     */
    public String getUserAgent() {
        return userAgent;
    }

    /**
     * @param userAgent
     */
    public void setUserAgent(String userAgent) {
        this.userAgent = userAgent;
    }
}
}

```