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# APPLICATION PROGRAMMING PRACTICE FILE

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## 5 Understanding modification of Web.XML

```
<?xml version="1.0" encoding="ISO-8859-1"?>
```

```
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this file to You under the Apache License, Version 2.0(the "License"); you may not use this file except in  
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distributed on an "AS IS" BASIS,WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.See the  
License for the specific language governing permissions andlimitations under the License. -->
```

```
<-web-app version="3.0" xsi:schemaLocation="http://java.sun.com/xml/ns/javaee  
http://java.sun.com/xml/ns/javaee/web-app\_3\_0.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
xmlns="http://java.sun.com/xml/ns/javaee">
```

```
<!-- ===== Introduction ===== -->
```

```
<!-- This document defines default values for *all* web applications -->
```

```
<!-- loaded into this instance of Tomcat. As each application is -->
```

```
<!-- deployed, this file is processed, followed by the -->
```

```
<!-- "/WEB-INF/web.xml" deployment descriptor from your own -->
```

```
<!-- applications. -->
```

```
<!-- -->
```

```
<!-- WARNING: Do not configure application-specific resources here! -->
```

```
<!-- They should go in the "/WEB-INF/web.xml" file in your application. -->
```

```
<!-- ===== Built In Servlet Definitions ===== -->
```

```
<!-- The default servlet for all web applications, that serves static -->
```

```
<!-- resources. It processes all requests that are not mapped to other -->
```

```
<!-- servlets with servlet mappings (defined either here or in your own -->
```

```
<!-- web.xml file). This servlet supports the following initialization -->
```

```
<!-- parameters (default values are in square brackets): -->
```

```
<!-- -->

<!-- debug Debugging detail level for messages logged -->

<!-- by this servlet. Useful values are 0, 1, and -->

<!-- 11 where higher values mean more detail. [0] -->

<!-- -->

<!-- fileEncoding Encoding to be used to read static resources -->

<!-- [platform default] -->

<!-- -->

<!-- input Input buffer size (in bytes) when reading -->

<!-- resources to be served. [2048] -->

<!-- -->

<!-- listings Should directory listings be produced if there -->

<!-- is no welcome file in this directory? [false] -->

<!-- WARNING: Listings for directories with many -->

<!-- entries can be slow and may consume -->

<!-- significant proportions of server resources. -->

<!-- -->

<!-- output Output buffer size (in bytes) when writing -->

<!-- resources to be served. [2048] -->

<!-- -->
```

```
<!-- readonly Is this context "read only", so HTTP -->

<!-- commands like PUT and DELETE are -->

<!-- rejected? [true] -->

<!-- -->

<!-- readmeFile File to display together with the directory -->

<!-- contents. [null] -->

<!-- -->

<!-- sendfileSize If the connector used supports sendfile, this -->

<!-- represents the minimal file size in KB for -->

<!-- which sendfile will be used. Use a negative -->

<!-- value to always disable sendfile. [48] -->

<!-- -->

<!-- useAcceptRanges Should the Accept-Ranges header be included -->

<!-- in responses where appropriate? [true] -->

<!-- -->

<!-- For directory listing customization. Checks localXsltFile, then -->

<!-- globalXsltFile, then defaults to original behavior. -->

<!-- -->

<!-- localXsltFile Make directory listings an XML doc and -->

<!-- pass the result to this style sheet residing -->

<!-- in that directory. This overrides -->
```

```
<!-- contextXsltFile and globalXsltFile[null] -->

<!-- -->

<!-- contextXsltFile Make directory listings an XML doc and -->

<!-- pass the result to this style sheet which is -->

<!-- relative to the context root. This overrides -->

<!-- globalXsltFile[null] -->

<!-- -->

<!-- globalXsltFile Site wide configuration version of -->

<!-- localXsltFile. This argument must either be an -->

<!-- absolute or relative (to either -->

<!-- $CATALINA_BASE/conf or $CATALINA_HOME/conf) -->

<!-- path that points to a location below either -->

<!-- $CATALINA_BASE/conf (checked first) or -->

<!-- $CATALINA_HOME/conf (checked second).[null] -->

<!-- -->

<!-- showServerInfo Should server information be presented in the -->

<!-- response sent to clients when directory -->

<!-- listings is enabled? [true] -->

<servlet>
<servlet-name>default</servlet-name>
```

```
<servlet-class>org.apache.catalina.servlets.DefaultServlet</servlet-class>

-<init-param>
<param-name>debug</param-name>
<param-value>0</param-value>
</init-param>

-<init-param>
<param-name>listings</param-name>
<param-value>>false</param-value>
</init-param>
<load-on-startup>1</load-on-startup>
</servlet>

<!-- The JSP page compiler and execution servlet, which is the mechanism -->

<!-- used by Tomcat to support JSP pages. Traditionally, this servlet -->

<!-- is mapped to the URL pattern "*.jsp". This servlet supports the -->

<!-- following initialization parameters (default values are in square -->

<!-- brackets): -->

<!-- -->

<!-- checkInterval If development is false and checkInterval is -->

<!-- greater than zero, background compilations are -->

<!-- enabled. checkInterval is the time in seconds -->

<!-- between checks to see if a JSP page (and its -->

<!-- dependent files) needs to be recompiled. [0] -->

<!-- -->

<!-- classdebuginfo Should the class file be compiled with -->
```

```
<!-- debugging information? [true] -->

<!-- -->

<!-- classpath What class path should I use while compiling -->

<!-- generated servlets? [Created dynamically -->

<!-- based on the current web application] -->

<!-- -->

<!-- compiler Which compiler Ant should use to compile JSP -->

<!-- pages. See the jasper documentation for more -->

<!-- information. -->

<!-- -->

<!-- compilerSourceVM Compiler source VM. [1.6] -->

<!-- -->

<!-- compilerTargetVM Compiler target VM. [1.6] -->

<!-- -->

<!-- development Is Jasper used in development mode? If true, -->

<!-- the frequency at which JSPs are checked for -->

<!-- modification may be specified via the -->

<!-- modificationTestInterval parameter. [true] -->

<!-- -->

<!-- displaySourceFragment -->
```

```
<!-- Should a source fragment be included in -->

<!-- exception messages? [true] -->

<!-- -->

<!-- dumpSmap Should the SMAP info for JSR45 debugging be -->

<!-- dumped to a file? [false] -->

<!-- False if suppressSmap is true -->

<!-- -->

<!-- enablePooling Determines whether tag handler pooling is -->

<!-- enabled. This is a compilation option. It will -->

<!-- not alter the behaviour of JSPs that have -->

<!-- already been compiled. [true] -->

<!-- -->

<!-- engineOptionsClass Allows specifying the Options class used to -->

<!-- configure Jasper. If not present, the default -->

<!-- EmbeddedServletOptions will be used. -->

<!-- This option is ignored when running under a -->

<!-- SecurityManager. -->

<!-- -->

<!-- errorOnUseBeanInvalidClassAttribute -->

<!-- Should Jasper issue an error when the value of -->
```



```
<!-- the class attribute in an useBean action is -->

<!-- not a valid bean class? [true] -->

<!-- -->

<!-- fork Tell Ant to fork compiles of JSP pages so that -->

<!-- a separate JVM is used for JSP page compiles -->

<!-- from the one Tomcat is running in. [true] -->

<!-- -->

<!-- genStringAsCharArray -->

<!-- Should text strings be generated as char -->

<!-- arrays, to improve performance in some cases? -->

<!-- [false] -->

<!-- -->

<!-- ieClassId The class-id value to be sent to Internet -->

<!-- Explorer when using <jsp:plugin> tags. -->

<!-- [clsid:8AD9C840-044E-11D1-B3E9-00805F499D93] -->

<!-- -->

<!-- javaEncoding Java file encoding to use for generating java -->

<!-- source files. [UTF8] -->

<!-- -->

<!-- keepgenerated Should we keep the generated Java source code -->

<!-- for each page instead of deleting it? [true] -->
```

```
<!-- -->

<!-- mappedfile Should we generate static content with one -->

<!-- print statement per input line, to ease -->

<!-- debugging? [true] -->

<!-- -->

<!-- maxLoadedJsps The maximum number of JSPs that will be loaded -->

<!-- for a web application. If more than this -->

<!-- number of JSPs are loaded, the least recently -->

<!-- used JSPs will be unloaded so that the number -->

<!-- of JSPs loaded at any one time does not exceed -->

<!-- this limit. A value of zero or less indicates -->

<!-- no limit. [-1] -->

<!-- -->

<!-- jspIdleTimeout The amount of time in seconds a JSP can be -->

<!-- idle before it is unloaded. A value of zero -->

<!-- or less indicates never unload. [-1] -->

<!-- -->

<!-- modificationTestInterval -->

<!-- Causes a JSP (and its dependent files) to not -->

<!-- be checked for modification during the -->
```

```
<!-- specified time interval (in seconds) from the -->

<!-- last time the JSP was checked for -->

<!-- modification. A value of 0 will cause the JSP -->

<!-- to be checked on every access. -->

<!-- Used in development mode only. [4] -->

<!-- -->

<!-- recompileOnFail If a JSP compilation fails should the -->

<!-- modificationTestInterval be ignored and the -->

<!-- next access trigger a re-compilation attempt? -->

<!-- Used in development mode only and is disabled -->

<!-- by default as compilation may be expensive and -->

<!-- could lead to excessive resource usage. -->

<!-- [false] -->

<!-- -->

<!-- scratchdir What scratch directory should we use when -->

<!-- compiling JSP pages? [default work directory -->

<!-- for the current web application] -->

<!-- This option is ignored when running under a -->

<!-- SecurityManager. -->

<!-- -->
```

<!-- suppressSmap Should the generation of SMAP info for JSR45 -->

<!-- debugging be suppressed? [false] -->

<!-- -->

<!-- trimSpaces Should template text that consists entirely of -->

<!-- whitespace be removed from the output? [false] -->

<!-- -->

<!-- xpoweredBy Determines whether X-Powered-By response -->

<!-- header is added by generated servlet. [false] -->

<!-- -->

<!-- quoteAttributeEL When EL is used in an attribute value on a -->

<!-- JSP page should the rules for quoting of -->

<!-- attributes described in JSP.1.6 be applied to -->

<!-- the expression? [true] -->

-<servlet>

<servlet-name>jsp</servlet-name>

<servlet-class>org.apache.jasper.servlet.JspServlet</servlet-class>

-<init-param>

<param-name>fork</param-name>

<param-value>>false</param-value>

</init-param>

-<init-param>

<param-name>xpoweredBy</param-name>

<param-value>>false</param-value>

```
</init-param>

<load-on-startup>3</load-on-startup>

</servlet>

<!-- NOTE: An SSI Filter is also available as an alternative SSI -->

<!-- implementation. Use either the Servlet or the Filter but NOT both. -->

<!-- -->

<!-- Server Side Includes processing servlet, which processes SSI -->

<!-- directives in HTML pages consistent with similar support in web -->

<!-- servers like Apache. Traditionally, this servlet is mapped to the -->

<!-- URL pattern "*.shtml". This servlet supports the following -->

<!-- initialization parameters (default values are in square brackets): -->

<!-- -->

<!-- buffered Should output from this servlet be buffered? -->

<!-- (0=false, 1=true) [0] -->

<!-- -->

<!-- debug Debugging detail level for messages logged -->

<!-- by this servlet. [0] -->

<!-- -->

<!-- expires The number of seconds before a page with SSI -->

<!-- directives will expire. [No default] -->

<!-- -->
```

```
<!-- isVirtualWebappRelative -->

<!-- Should "virtual" paths be interpreted as -->

<!-- relative to the context root, instead of -->

<!-- the server root? [false] -->

<!-- -->

<!-- inputEncoding The encoding to assume for SSI resources if -->

<!-- one is not available from the resource. -->

<!-- [Platform default] -->

<!-- -->

<!-- outputEncoding The encoding to use for the page that results -->

<!-- from the SSI processing. [UTF-8] -->

<!-- -->

<!-- allowExec Is use of the exec command enabled? [false] -->

<!--<servlet><servlet-name>ssi</servlet-name><servlet-class>org.apache.catalina.ssi.SSIServlet</servlet-
class><init-param><param-name>buffered</param-name><param-value>1</param-value></init-param><init-param><param-
name>debug</param-name><param-value>0</param-value></init-param><init-param><param-name>expires</param-
name><param-value>666</param-value></init-param><init-param><param-name>isVirtualWebappRelative</param-
name><param-value>false</param-value></init-param><load-on-startup>4</load-on-startup></servlet> -->

<!-- Common Gateway Includes (CGI) processing servlet, which supports -->

<!-- execution of external applications that conform to the CGI spec -->

<!-- requirements. Typically, this servlet is mapped to the URL pattern -->

<!-- "/cgi-bin/*", which means that any CGI applications that are -->

<!-- executed must be present within the web application. This servlet -->
```

```
<!-- supports the following initialization parameters (default values -->

<!-- are in square brackets): -->

<!-- -->

<!-- cgiPathPrefix The CGI search path will start at -->

<!-- webAppRootDir + File.separator + this prefix. -->

<!-- If not set, then webAppRootDir is used. -->

<!-- Recommended value: WEB-INF/cgi -->

<!-- -->

<!-- cmdLineArgumentsDecoded -->

<!-- Only used when enableCmdLineArguments is -->

<!-- true. The pattern that individual decoded -->

<!-- command line arguments must match else the -->

<!-- request will be rejected. This is to -->

<!-- work-around various issues when Java passes -->

<!-- the arguments to the OS. See the CGI How-To -->

<!-- for more details. The default varies by -->

<!-- platform. -->

<!-- Windows: [[a-zA-Z0-9\Q-_.\\/:\\E]+] -->

<!-- Others: [.*] -->

<!-- Note that internally the CGI Servlet treats -->

<!-- [.*] as a special case to improve performance -->
```

```
<!-- -->

<!-- cmdLineArgumentsEncoded -->

<!-- Only used when enableCmdLineArguments is -->

<!-- true. The pattern that individual encoded -->

<!-- command line arguments must match else the -->

<!-- request will be rejected. The default matches -->

<!-- the allowed values defined by RFC3875. -->

<!-- [[a-zA-Z0-9\Q%;/?:@&,$-_.!~*'()\E]+] -->

<!-- -->

<!-- enableCmdLineArguments -->

<!-- Are command line parameters generated from -->

<!-- the query string as per section 4.4 of 3875 -->

<!-- RFC? [true] -->

<!-- -->

<!-- executable Name of the executable used to run the -->

<!-- script. [perl] -->

<!-- -->

<!-- envHttpHeaders A regular expression used to select the HTTP -->

<!-- headers passed to the CGI process as -->

<!-- environment variables. Note that headers are -->
```



```
<!-- converted to upper case before matching and -->

<!-- that the entire header name must match the -->

<!-- pattern. -->

<!-- [ACCEPT[-0-9A-Z]*|CACHE-CONTROL|COOKIE|HOST| -->

<!-- IF-[-0-9A-Z]*|REFERER|USER-AGENT] -->

<!-- -->

<!-- environment-variable- An environment to be set for the execution -->

<!-- environment of the CGI script. The name of -->

<!-- variable is taken from the parameter name. -->

<!-- To configure an environment variable named -->

<!-- F00, configure a parameter named -->

<!-- environment-variable-F00. The parameter value -->

<!-- is used as the environment variable value. -->

<!-- The default is no environment variables. -->

<!-- -->

<!-- parameterEncoding Name of parameter encoding to be used with -->

<!-- CGI servlet. -->

<!-- [System.getProperty("file.encoding","UTF-8")] -->

<!-- -->

<!-- passShellEnvironment Should the shell environment variables (if -->
```

```

<!-- any) be passed to the CGI script? [false] -->

<!-- -->

<!-- stderrTimeout The time (in milliseconds) to wait for the -->

<!-- reading of stderr to complete before -->

<!-- terminating the CGI process. [2000] -->

<!--<servlet><servlet-name>cgi</servlet-name><servlet-class>org.apache.catalina.servlets.CGIServlet</servlet-
class><init-param><param-name>cgiPathPrefix</param-name><param-value>WEB-INF/cgi</param-value></init-
param><load-on-startup>5</load-on-startup></servlet> -->

<!-- ===== Built In Servlet Mappings ===== -->

<!-- The servlet mappings for the built in servlets defined above. Note -->

<!-- that, by default, the CGI and SSI servlets are *not* mapped. You -->

<!-- must uncomment these mappings (or add them to your application's own -->

<!-- web.xml deployment descriptor) to enable these services -->

<!-- The mapping for the default servlet -->

<servlet-mapping>
<servlet-name>default</servlet-name>
<url-pattern>/</url-pattern>
</servlet-mapping>

<!-- The mappings for the JSP servlet -->

<servlet-mapping>
<servlet-name>jsp</servlet-name>
<url-pattern>*.jsp</url-pattern>
<url-pattern>*.jspx</url-pattern>
</servlet-mapping>

```

```
<!-- The mapping for the SSI servlet -->

<!--<servlet-mapping><servlet-name>ssi</servlet-name><url-pattern>*.shtml</url-pattern></servlet-mapping> -->

<!-- The mapping for the CGI Gateway servlet -->

<!--<servlet-mapping><servlet-name>cgi</servlet-name><url-pattern>/cgi-bin/*</url-pattern></servlet-mapping> -->

<!-- ===== Built In Filter Definitions ===== -->

<!-- A filter that sets various security related HTTP Response headers. -->

<!-- This filter supports the following initialization parameters -->

<!-- (default values are in square brackets): -->

<!-- -->

<!-- hstsEnabled Should the HTTP Strict Transport Security -->

<!-- (HSTS) header be added to the response? See -->

<!-- RFC 6797 for more information on HSTS. [true] -->

<!-- -->

<!-- hstsMaxAgeSeconds The max age value that should be used in the -->

<!-- HSTS header. Negative values will be treated -->

<!-- as zero. [0] -->

<!-- -->

<!-- hstsIncludeSubDomains -->

<!-- Should the includeSubDomains parameter be -->

<!-- included in the HSTS header. -->
```

```
<!-- -->

<!-- antiClickJackingEnabled -->

<!-- Should the anti click-jacking header -->

<!-- X-Frame-Options be added to every response? -->

<!-- [true] -->

<!-- -->

<!-- antiClickJackingOption -->

<!-- What value should be used for the header. Must -->

<!-- be one of DENY, SAMEORIGIN, ALLOW-FROM -->

<!-- (case-insensitive). [DENY] -->

<!-- -->

<!-- antiClickJackingUri IF ALLOW-FROM is used, what URI should be -->

<!-- allowed? [] -->

<!-- -->

<!-- blockContentTypeSniffingEnabled -->

<!-- Should the header that blocks content type -->

<!-- sniffing be added to every response? [true] -->

<!--<filter><filter-name>httpHeaderSecurity</filter-name><filter-
class>org.apache.catalina.filters.HttpHeaderSecurityFilter</filter-class><async-supported>true</async-
supported></filter> -->

<!-- A filter that sets character encoding that is used to decode -->

<!-- parameters in a POST request -->
```

```
<!--<filter><filter-name>setCharacterEncodingFilter</filter-name><filter-  
class>org.apache.catalina.filters.SetCharacterEncodingFilter</filter-class><init-param><param-  
name>encoding</param-name><param-value>UTF-8</param-value></init-param><async-supported>true</async-  
supported></filter> -->
```

```
<!-- A filter that triggers request parameters parsing and rejects the -->
```

```
<!-- request if some parameters were skipped because of parsing errors or -->
```

```
<!-- request size limitations. -->
```

```
<!--<filter><filter-name>failedRequestFilter</filter-name><filter-  
class>org.apache.catalina.filters.FailedRequestFilter</filter-class><async-supported>true</async-  
supported></filter> -->
```

```
<!-- NOTE: An SSI Servlet is also available as an alternative SSI -->
```

```
<!-- implementation. Use either the Servlet or the Filter but NOT both. -->
```

```
<!-- -->
```

```
<!-- Server Side Includes processing filter, which processes SSI -->
```

```
<!-- directives in HTML pages consistent with similar support in web -->
```

```
<!-- servers like Apache. Traditionally, this filter is mapped to the -->
```

```
<!-- URL pattern "*.shtml", though it can be mapped to "*" as it will -->
```

```
<!-- selectively enable/disable SSI processing based on mime types. For -->
```

```
<!-- this to work you will need to uncomment the .shtml mime type -->
```

```
<!-- definition towards the bottom of this file. -->
```

```
<!-- The contentType init param allows you to apply SSI processing to JSP -->
```

```
<!-- pages, javascript, or any other content you wish. This filter -->
```

```
<!-- supports the following initialization parameters (default values are -->
```

```
<!-- in square brackets): -->
```

```
<!-- -->

<!-- contentType A regex pattern that must be matched before -->

<!-- SSI processing is applied. -->

<!-- [text/x-server-parsed-html(;.*)?] -->

<!-- -->

<!-- debug Debugging detail level for messages logged -->

<!-- by this servlet. [0] -->

<!-- -->

<!-- expires The number of seconds before a page with SSI -->

<!-- directives will expire. [No default] -->

<!-- -->

<!-- isVirtualWebappRelative -->

<!-- Should "virtual" paths be interpreted as -->

<!-- relative to the context root, instead of -->

<!-- the server root? [false] -->

<!-- -->

<!-- allowExec Is use of the exec command enabled? [false] -->

<!--<filter><filter-name>ssi</filter-name><filter-class>org.apache.catalina.ssi.SSIFilter</filter-class><init-
param><param-name>contentType</param-name><param-value>text/x-server-parsed-html(;.*)?</param-value></init-
param><init-param><param-name>debug</param-name><param-value>0</param-value></init-param><init-param><param-
name>expires</param-name><param-value>666</param-value></init-param><init-param><param-
name>isVirtualWebappRelative</param-name><param-value>false</param-value></init-param></filter> -->

<!-- ===== Built In Filter Mappings ===== -->
```

```

<!-- The mapping for the HTTP header security Filter -->

<!--<filter-mapping><filter-name>httpHeaderSecurity</filter-name><url-pattern>*/</url-
pattern><dispatcher>REQUEST</dispatcher></filter-mapping> -->

<!-- The mapping for the Set Character Encoding Filter -->

<!--<filter-mapping><filter-name>setCharacterEncodingFilter</filter-name><url-pattern>*/</url-pattern></filter-
mapping> -->

<!-- The mapping for the Failed Request Filter -->

<!--<filter-mapping><filter-name>failedRequestFilter</filter-name><url-pattern>*/</url-pattern></filter-
mapping> -->

<!-- The mapping for the SSI Filter -->

<!--<filter-mapping><filter-name>ssi</filter-name><url-pattern>*.shtml</url-pattern></filter-mapping> -->

<!-- ===== Default Session Configuration ===== -->

<!-- You can set the default session timeout (in minutes) for all newly -->

<!-- created sessions by modifying the value below. -->

-<session-config>
<session-timeout>30</session-timeout>
</session-config>

<!-- ===== Default MIME Type Mappings ===== -->

<!-- When serving static resources, Tomcat will automatically generate -->

<!-- a "Content-Type" header based on the resource's filename extension, -->

<!-- based on these mappings. Additional mappings can be added here (to -->

<!-- apply to all web applications), or in your own application's web.xml -->

<!-- deployment descriptor. -->

```

```
<!-- Note: Extensions are always matched in a case-insensitive manner. -->
```

```
-<mime-mapping>
```

```
<extension>123</extension>
```

```
<mime-type>application/vnd.lotus-1-2-3</mime-type>
```

```
</mime-mapping>
```

```
-<mime-mapping>
```

```
<extension>3dml</extension>
```

```
<mime-type>text/vnd.in3d.3dml</mime-type>
```

```
</mime-mapping>
```

```
-<mime-mapping>
```

```
<extension>3ds</extension>
```

```
<mime-type>image/x-3ds</mime-type>
```

```
</mime-mapping>
```

```
-<mime-mapping>
```

```
<extension>3g2</extension>
```

```
<mime-type>video/3gpp2</mime-type>
```

```
</mime-mapping>
```

```
-<mime-mapping>
```

```
<extension>3gp</extension>
```

```
<mime-type>video/3gpp</mime-type>
```

```
</mime-mapping>
```

```
-<mime-mapping>
```

```
<extension>7z</extension>
```

```
<mime-type>application/x-7z-compressed</mime-type>
```

```
</mime-mapping>
```

```
-<mime-mapping>
```



```
<extension>aab</extension>

<mime-type>application/x-authorware-bin</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>aac</extension>

<mime-type>audio/x-aac</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>aam</extension>

<mime-type>application/x-authorware-map</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>aas</extension>

<mime-type>application/x-authorware-seg</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>abs</extension>

<mime-type>audio/x-mpeg</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>abw</extension>

<mime-type>application/x-abiword</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>ac</extension>

<mime-type>application/pkix-attr-cert</mime-type>

</mime-mapping>
```

```
-<mime-mapping>  
  
<extension>acc</extension>  
  
<mime-type>application/vnd.americandynamics.acc</mime-type>  
  
</mime-mapping>
```

```
-<mime-mapping>  
  
<extension>ace</extension>  
  
<mime-type>application/x-ace-compressed</mime-type>  
  
</mime-mapping>
```

```
-<mime-mapping>  
  
<extension>acu</extension>  
  
<mime-type>application/vnd.acucobol</mime-type>  
  
</mime-mapping>
```

```
-<mime-mapping>  
  
<extension>acutc</extension>  
  
<mime-type>application/vnd.acucorp</mime-type>  
  
</mime-mapping>
```

```
-<mime-mapping>  
  
<extension>adp</extension>  
  
<mime-type>audio/adpcm</mime-type>  
  
</mime-mapping>
```

```
-<mime-mapping>  
  
<extension>aep</extension>  
  
<mime-type>application/vnd.audiograph</mime-type>  
  
</mime-mapping>
```

```
-<mime-mapping>  
  
<extension>afm</extension>  
  
<mime-type>application/x-font-type1</mime-type>
```

</mime-mapping>

-<mime-mapping>

<extension>afp</extension>

<mime-type>application/vnd.ibm.modcap</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>ahead</extension>

<mime-type>application/vnd.ahead.space</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>ai</extension>

<mime-type>application/postscript</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>aif</extension>

<mime-type>audio/x-aiff</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>aifc</extension>

<mime-type>audio/x-aiff</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>aiff</extension>

<mime-type>audio/x-aiff</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>aim</extension>

<mime-type>application/x-aim</mime-type>

</mime-mapping>

-<mime-mapping>

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</mime-mapping>

-<mime-mapping>

<extension>vtu</extension>

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-<mime-mapping>

<extension>vxml</extension>

<mime-type>application/voicexml+xml</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>w3d</extension>

<mime-type>application/x-director</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>wad</extension>

<mime-type>application/x-doom</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>wav</extension>

<mime-type>audio/x-wav</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>wax</extension>

<mime-type>audio/x-ms-wax</mime-type>

</mime-mapping>

-<mime-mapping>

<!-- Wireless Bitmap -->

<extension>wbmp</extension>

<mime-type>image/vnd.wap.wbmp</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>wbs</extension>

<mime-type>application/vnd.criticaltools.wbs+xml</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>wbxml</extension>

<mime-type>application/vnd.wap.wbxml</mime-type>

</mime-mapping>

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-<mime-mapping>

<extension>wcm</extension>

<mime-type>application/vnd.ms-works</mime-type>

</mime-mapping>


-<mime-mapping>

<extension>wdb</extension>

<mime-type>application/vnd.ms-works</mime-type>

</mime-mapping>


-<mime-mapping>

<extension>wdp</extension>

<mime-type>image/vnd.ms-photo</mime-type>

</mime-mapping>


-<mime-mapping>

<extension>weba</extension>

<mime-type>audio/webm</mime-type>

</mime-mapping>


-<mime-mapping>

<extension>webm</extension>

<mime-type>video/webm</mime-type>

</mime-mapping>


-<mime-mapping>

<extension>webp</extension>

<mime-type>image/webp</mime-type>

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-<mime-mapping>

<extension>wg</extension>

<mime-type>application/vnd.pmi.widget</mime-type>
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</mime-mapping>

-<mime-mapping>

<extension>wgt</extension>

<mime-type>application/widget</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>wks</extension>

<mime-type>application/vnd.ms-works</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>wm</extension>

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</mime-mapping>

-<mime-mapping>

<extension>wma</extension>

<mime-type>audio/x-ms-wma</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>wmd</extension>

<mime-type>application/x-ms-wmd</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>wmf</extension>

<mime-type>application/x-msmetafile</mime-type>

</mime-mapping>

-<mime-mapping>

<!-- WML Source -->

```
<extension>wml</extension>

<mime-type>text/vnd.wap.wml</mime-type>

</mime-mapping>

-<mime-mapping>

<!-- Compiled WML -->

<extension>wmlc</extension>

<mime-type>application/vnd.wap.wmlc</mime-type>

</mime-mapping>

-<mime-mapping>

<!-- WML Script Source -->

<extension>wmls</extension>

<mime-type>text/vnd.wap.wmlscript</mime-type>

</mime-mapping>

-<mime-mapping>

<!-- Compiled WML Script -->

<extension>wmlsc</extension>

<mime-type>application/vnd.wap.wmlscriptc</mime-type>

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-<mime-mapping>

<extension>wmv</extension>

<mime-type>video/x-ms-wmv</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>wmx</extension>

<mime-type>video/x-ms-wmx</mime-type>

</mime-mapping>
```



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-<mime-mapping>  
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<mime-type>application/x-msmetafile</mime-type>  
</mime-mapping>
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-<mime-mapping>  
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</mime-mapping>
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</mime-mapping>
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```
-<mime-mapping>  
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</mime-mapping>
```

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-<mime-mapping>  
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</mime-mapping>

-<mime-mapping>

<extension>wri</extension>

<mime-type>application/x-mswrite</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>wrl</extension>

<mime-type>model/vrml</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>wsdl</extension>

<mime-type>application/wsdl+xml</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>wspolicy</extension>

<mime-type>application/wspolicy+xml</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>wtb</extension>

<mime-type>application/vnd.webturbo</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>wvx</extension>

<mime-type>video/x-ms-wvx</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>x32</extension>

<mime-type>application/x-authorware-bin</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>x3d</extension>

<mime-type>model/x3d+xml</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>x3db</extension>

<mime-type>model/x3d+binary</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>x3dbz</extension>

<mime-type>model/x3d+binary</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>x3dv</extension>

<mime-type>model/x3d+vrml</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>x3dvz</extension>

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</mime-mapping>

-<mime-mapping>

<extension>x3dz</extension>

<mime-type>model/x3d+xml</mime-type>

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<mime-type>application/xaml+xml</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>xap</extension>

<mime-type>application/x-silverlight-app</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>xar</extension>

<mime-type>application/vnd.xara</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>xbap</extension>

<mime-type>application/x-ms-xbap</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>xbd</extension>

<mime-type>application/vnd.fujixerox.docuworks.binder</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>xbm</extension>

<mime-type>image/x-xbitmap</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>xdf</extension>

<mime-type>application/xcap-diff+xml</mime-type>

</mime-mapping>
```

```
-<mime-mapping>  
  
<extension>xdm</extension>  
  
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</mime-mapping>
```

```
-<mime-mapping>  
  
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```
-<mime-mapping>  
  
<extension>xdssc</extension>  
  
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</mime-mapping>
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-<mime-mapping>  
  
<extension>xdw</extension>  
  
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</mime-mapping>
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-<mime-mapping>  
  
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```
-<mime-mapping>  
  
<extension>xer</extension>  
  
<mime-type>application/patch-ops-error+xml</mime-type>  
  
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-<mime-mapping>  
  
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</mime-mapping>

-<mime-mapping>

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-<mime-mapping>

<extension>xht</extension>

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</mime-mapping>

-<mime-mapping>

<extension>xhtml</extension>

<mime-type>application/xhtml+xml</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>xhvm</extension>

<mime-type>application/xv+xml</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>xif</extension>

<mime-type>image/vnd.xiff</mime-type>

</mime-mapping>

-<mime-mapping>

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<extension>xlam</extension>

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<extension>xlc</extension>

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</mime-mapping>

-<mime-mapping>

<extension>xlf</extension>

<mime-type>application/x-xliff+xml</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>xlm</extension>

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-<mime-mapping>

<extension>xls</extension>

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</mime-mapping>

-<mime-mapping>

<extension>xlsb</extension>

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</mime-mapping>

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<extension>xlsm</extension>

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</mime-mapping>

-<mime-mapping>
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<extension>xlsx</extension>

<mime-type>application/vnd.openxmlformats-officedocument.spreadsheetml.sheet</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>xlt</extension>

<mime-type>application/vnd.ms-excel</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>xltm</extension>

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</mime-mapping>

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<extension>xltx</extension>

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</mime-mapping>

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<extension>xlw</extension>

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</mime-mapping>

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<extension>xml</extension>

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</mime-mapping>
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<extension>xo</extension>

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</mime-mapping>


-<mime-mapping>

<extension>xop</extension>

<mime-type>application/xop+xml</mime-type>

</mime-mapping>


-<mime-mapping>

<extension>xpi</extension>

<mime-type>application/x-xpinstall</mime-type>

</mime-mapping>


-<mime-mapping>

<extension>xpl</extension>

<mime-type>application/xproc+xml</mime-type>

</mime-mapping>


-<mime-mapping>

<extension>xpm</extension>

<mime-type>image/x-xpixmap</mime-type>

</mime-mapping>


-<mime-mapping>

<extension>xpr</extension>

<mime-type>application/vnd.is-xpr</mime-type>

</mime-mapping>


-<mime-mapping>

<extension>xps</extension>

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-<mime-mapping>  
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-<mime-mapping>  
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-<mime-mapping>  
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-<mime-mapping>  
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-<mime-mapping>

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</mime-mapping>

-<mime-mapping>

<extension>xvml</extension>

<mime-type>application/xv+xml</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>xwd</extension>

<mime-type>image/x-xwindowdump</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>xyz</extension>

<mime-type>chemical/x-xyz</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>xz</extension>

<mime-type>application/x-xz</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>yang</extension>

<mime-type>application/yang</mime-type>

</mime-mapping>

-<mime-mapping>

<extension>yin</extension>

<mime-type>application/yin+xml</mime-type>

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-<mime-mapping>

<extension>z</extension>

<mime-type>application/x-compress</mime-type>

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<extension>z1</extension>

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-<mime-mapping>

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<extension>z8</extension>

<mime-type>application/x-zmachine</mime-type>

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-<mime-mapping>

<extension>zaz</extension>

<mime-type>application/vnd.zzazz.deck+xml</mime-type>

</mime-mapping>

-<mime-mapping>

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```

-<mime-mapping>

<extension>zmm</extension>

<mime-type>application/vnd.handheld-entertainment+xml</mime-type>

</mime-mapping>

<!-- ===== Default Welcome File List ===== -->

<!-- When a request URI refers to a directory, the default servlet looks -->
<!-- for a "welcome file" within that directory and, if present, to the -->
<!-- corresponding resource URI for display. -->

<!-- If no welcome files are present, the default servlet either serves a -->
<!-- directory listing (see default servlet configuration on how to -->
<!-- customize) or returns a 404 status, depending on the value of the -->
<!-- listings setting. -->

<!-- If you define welcome files in your own application's web.xml -->
<!-- deployment descriptor, that list *replaces* the list configured -->
<!-- here, so be sure to include any of the default values that you wish -->
<!-- to use within your application. -->

-<welcome-file-list>

<welcome-file>index.html</welcome-file>

<welcome-file>index.htm</welcome-file>

<welcome-file>index.jsp</welcome-file>

</welcome-file-list>

</web-app>

```