

# Setup SiteMesh in 5 Minutes or Less

## Introduction

This tutorial teaches you how to set up SiteMesh within a Java Web Development Environment and should take about 5 minutes or less.

 Shortcut: Don't have a development environment handy or know how to set one up? Download the "no install" [SiteMesh Starter Kit](#) which completes the steps below and skip straight to [Start Using SiteMesh in 10 Minutes](#).

## Setup Web Application

Setup your web application with your favourite JEE IDE such as [Eclipse](#) or the [Spring Tool Suite](#).

If you are new to JEE development and plan to follow along with the [Start Using SiteMesh in 10 Minutes](#) tutorial, use the context root of **cafe**.

## Install SiteMesh Manually

Installing SiteMesh into your web application consists of three steps,

1. Add the SiteMesh library file to WEB-INF/lib
2. Add the SiteMesh filter to web.xml
3. Create a blank decorators.xml file

## Setup Library File

Copy the [SiteMesh jar](#) file into your web application's **WEB-INF/lib** directory. In this example we downloaded SiteMesh 2.4.1 which uses the jar name, **sitemesh-2.4.1.jar**.

## Add SiteMesh Filter

Add the following to **WEB-INF/web.xml** within the **<web-app>** tag,

```
<filter>
  <filter-name>sitemesh</filter-name>
  <filter-class>com.opensymphony.sitemesh.webapp.SiteMeshFilter</filter-class>
</filter>

<filter-mapping>
  <filter-name>sitemesh</filter-name>
  <url-pattern>/*</url-pattern>
</filter-mapping>
```

Here is a sample web.xml,

### Sample web.xml

› Expand

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://java.sun.com/xml/ns/javaee"
xmlns:web="http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd"
xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
http://java.sun.com/xml/ns/javaee/web-app_3_0.xsd" id="WebApp_ID" version="3.0">

  <display-name>mirabeau</display-name>

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

  <filter>
    <filter-name>sitemesh</filter-name>
    <filter-class>com.opensymphony.sitemesh.webapp.SiteMeshFilter</filter-class>
  </filter>

  <filter-mapping>
    <filter-name>sitemesh</filter-name>
    <url-pattern>/*</url-pattern>
  </filter-mapping>

</web-app>
```

source

## Add Decorator Controller File

Create the a `decorators.xml` file in your WEB-INF directory,

### decorators.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<decorators>
</decorators>
```



You IDE (Integrated Development Environment) may give you the warning, "No grammar constraints (DTD or XML schema) detected for the document."

This is just a warning (happens with many other xml files) and you can ignore it or disable the warning in your IDE.

If you start up your application server (container) and get no errors then SiteMesh is ready to go. However, SiteMesh will not do anything yet. Continue to [Start Using SiteMesh in 10 Minutes](#).