This web.xml file defines the ch17 servlet of the class DispatcherServlet that maps to all requests to *.html or *.tile.

Note We usually create a mapping to *.html because it is a recognized extension and easily fools search engines into thinking that the page is not dynamically generated.

Using Handler Mappings

How does our web application know which servlet (controller implementation) to invoke on a specific request? This is where Spring handler mappings kick in. In a few easy steps, you can configure URL mappings to Spring controllers. All you need to do is edit the Spring application context file.

Spring uses HandlerMapping implementations to identify the controller to invoke and provides three implementations of HandlerMapping, as shown in Table 17-1.

Table 17-1.	HandlerManni	ing Implementations
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HandlerMapping	Description
BeanNameUrlHandlerMapping	The bean name is identified by the URL. If the URL were /product/index.html, the controller bean ID that handles this mapping would have to be set to /product/index.html. This mapping is useful for small applications, as it does not support wildcards in the requests.
SimpleUrlHandlerMapping	This handler mapping allows you to specify in the requests (using full names and wildcards) which controller is going to handle the request.
ControllerClassNameHandlerMapping	This handler mapping is part of the convenience over configuration approach introduced with Spring 2.5. It automatically generates URL paths from the class names of the controllers. This implementation is covered in more detail later in this chapter.

All three HandlerMapping implementations extend the AbstractHandlerMapping base class and share the following properties:

- interceptors: This property indicates the list of interceptors to use. HandlerInterceptors are discussed in the next section.
- defaultHandler: This property specifies the default handler to use when this handler mapping does not result in a matching handler.
- order: Based on the value of the order property (see the org.springframework.core.Ordered interface), Spring will sort all handler mappings available in the context and apply the first matching handler.
- alwaysUseFullPath: If this property is set to true, Spring will use the full path within the current servlet context to find an appropriate handler. If this property is set to false (the default), the path within the current servlet mapping will be used. For example, if a servlet is mapped using /testing/* and the alwaysUseFullPath property is set to true, /testing/viewPage.html would be used, whereas if the property is set to false, /viewPage.html would be used.
- urlPathHelper: Using this property, you can tweak the UrlPathHelper used when inspecting URLs. Normally, you shouldn't have to change the default value.

- urlDecode: The default value for this property is false. The HttpServletRequest returns request URLs and URIs that are *not* decoded. If you do want them to be decoded before a HandlerMapping uses them to find an appropriate handler, you have to set this to true (which requires JDK 1.4). The decoding method uses either the encoding specified by the request or the default ISO-8859-1 encoding scheme.
- lazyInitHandlers: This allows for lazy initialization of singleton handlers (prototype handlers
 are always lazily initialized). The default value is false.

Note The last four properties are only available to subclasses of org.springframework.web.servlet.handler.AbstractUrlHandlerMapping.

We will start with the example of BeanNameUrlHandlerMapping. This is the simple HandlerMapping implementation that maps controller bean IDs to the servlet URLs. This HandlerMapping implementation is used by default if no HandlerMapping is defined in the Spring context files. Listing 17-2 shows an example of the BeanNameUrlHandlerMapping configuration, without the actual BeanNameUrlHandlerMapping bean (DispatcherServlet will instantiate it by default, if no other HandlerMapping has been configured).

Listing 17-2. BeanNameUrlHandlerMapping Configuration

SimpleUrlHandlerMapping offers more flexibility in the request mappings. You can configure the mapping as key/value properties in the publicUrlMapping bean. In Listing 17-3, you can see a simple example of a Spring application context file containing the handler mapping configuration.

Listing 17-3. SimpleUrlHandlerMapping Definitions

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"</pre>
...>
<beans>
    <bean id="publicUrlMapping"</pre>
        class="org.springframework.web.servlet.handler.SimpleUrlHandlerMapping">
                cproperty name="mappings">
            <value>
                /index.html=indexController
                /product/index.html=productController
                /product/view.html=productController
                /product/edit.html=productFormController
            </value>
        </property>
    </bean>
</beans>
```