

(Spring) Navigation

```
<a href="index.htm">Home</a>
<a href="country.htm">Countries</a>
<a href="specialty.htm">Specialties</a>
<a href="contact.htm">Contact</a>
```

Why do URLs end with .htm?



URL MAPPING IN WEBINITIALIZER (WEB.XML)

Will register the
existing Spring class

```
public class WebInitializer extends  
AbstractAnnotationConfigDispatcherServletInitializer {  
  
    ...  
  
    @Override  
    protected String[] getServletMappings() {  
        return new String[] {"*.htm"};  
    }  
}
```

all urls ending with *.htm are
forwarded to this servlet

WOULD WORK JUST AS WELL*

```
<a href="index.lol">Home</a>
<a href="country.lol">Countries</a>
<a href="specialty.lol">Specialties</a>
<a href="contact.lol">Contact</a>
```

```
public class WebInitializer extends
    AbstractAnnotationConfigDispatcherServletInitializer {

    @Override
    protected String[] getServletMappings() {
        return new String[] {"*.lol"};
    }
}
```

* but please don't!

CONSEQUENCE

```
public class WebInitializer extends  
    AbstractAnnotationConfigDispatcherServletInitializer {  
  
    @Override  
    protected String[] getServletMappings() {  
        return new String[] {"*.htm"};  
    }  
  
}
```

- URLs ending with .htm: send to front controller
- other URLs (*.css, ...): rendered immediately

CORRECTION

- servlet in WebInitializer
- mapping to servlet in WebInitializer
- .htm vs. other URLs

SPRING AND URLs

- Relative URLs
- Absolute URLs

RELATIVE URLs

```
<a href="index.htm">Home</a>
<a href="country.htm">Countries</a>
<a href="specialty.htm">Specialties</a>
<a href="contact.htm">Contact</a>
```

no /

<http://192.168.0.205:8080/countries-springmvc/index.htm>

192.168.0.205:8080/countries-springmvc

Home Countries Specialties Contact



Sweet Holidays

We know how busy you are. We know how important your holiday is for you. That's why we want to help you in making the right choice.

This site offers you information about countries. To make sure you choose your ideal destination.

<http://192.168.0.205:8080/countries-springmvc/country.htm>



Home Countries Specialties Contact

Our selection of interesting countries:

[Belgium (11000000 inwoners), Austria (800000 inwoners)]

Name	Inhabitants	Height
Belgium	11000000	
Austria	800000	

New

<http://192.168.0.205:8080/countries-springmvc/country/new.htm?>



192.168.0.205:8080/countries-springmvc/country/new.htm

Home Countries Specialties Contact

New Country

Name (required):

Number of inhabitants:

<http://192.168.0.205:8080/countries-springmvc/country/country.htm>

The screenshot shows a web browser window with the following details:

- Address Bar:** Shows the URL `192.168.0.205:8080/countries-springmvc/country/country.htm`.
- Header Bar:** Displays "HTTP Status 400 - Bad Request".
- Content Area:**
 - type:** Status report
 - message:** Bad Request
 - description:** The request sent by the client was syntactically incorrect.
- Footer Bar:** Shows "GlassFish Server Open Source Edition 4.1".

RELATIVE URLs

PROBLEM

<http://192.168.0.205:8080/countries-springmvc/index.htm>
<http://192.168.0.205:8080/countries-springmvc/country.htm>

<http://192.168.0.205:8080/countries-springmvc/country.htm>
[country/new.htm?](http://192.168.0.205:8080/countries-springmvc/country/new.htm?)

<http://192.168.0.205:8080/countries-springmvc/country/new.htm?country.htm>

<http://192.168.0.205:8080/countries-springmvc/country/country.htm>

RELATIVE ROOT-URLS

```
<a href="/index.htm">Home</a>
<a href="/country.htm">Countries</a>
<a href="/specialty.htm">Specialties</a>
<a href="/contact.htm">Contact</a>
```

add /


<http://192.168.0.205:8080/country.htm>

The screenshot shows a web browser window with the following details:

- Address Bar:** Displays the URL `192.168.0.205:8080/country.htm`.
- Header Bar:** Shows standard browser controls for back, forward, search, and refresh.
- Main Content Area:**
 - Section Header:** **HTTP Status 404 - Not Found**
 - Attributes:**
 - type:** Status report
 - message:** Not Found
 - description:** The requested resource is not available.
- Footer Bar:** Displays the text **GlassFish Server Open Source Edition 4.1**.

RELATIVE ROOT-URLS

~~http://192.168.0.205:8080/index.htm~~
~~/country.htm~~

~~http://192.168.0.205:8080/country.htm~~
~~/country/new.htm?~~

~~http://192.168.0.205:8080/country/new.htm?~~
~~/country.htm~~

http://192.168.0.205:8080/country.htm

RELATIVE ROOT-URLS PROBLEM

countries-springmvc
 ^
`http://192.168.0.205:8080/country.htm`



ContextRoot is gone!

RELATIVE ROOT-URLS

+ JSTL

The diagram illustrates the use of JSTL annotations in a menu navigation code. The code consists of four hyperlinks:

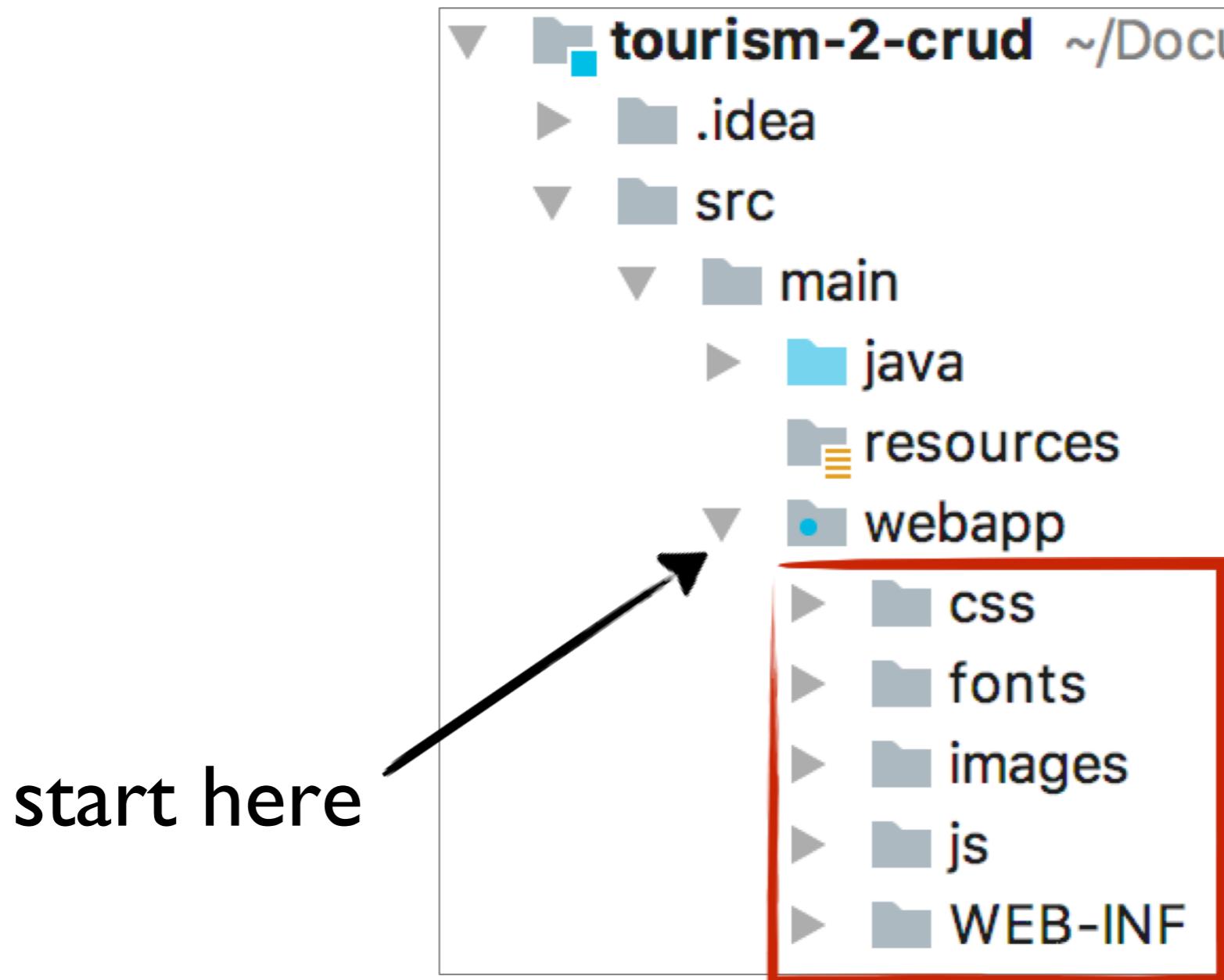
```
<a href=">Home</a>
<a href=">Countries</a>
<a href=">Specialties</a>
<a href=">Contact</a>
```

An annotation labeled "JSTL" with an arrow points to the first JSTL tag, <c:url value="/index.htm" />. Another annotation labeled "add /" with an arrow points to the trailing slash after the second JSTL tag, <c:url value="/country.htm" />, indicating where the current context path should be appended.

RELATIVE ROOT-URLS + EXPRESSION LANGUAGE

EL
 `${pageContext.request.contextPath}/country.htm`
add /

CSS, IMAGES, . . .



?