

# JSP, JSF, and EL Introduction

- JSP legacy technology
- Released 1999, replaced in 2003 by JSF
- Latest version 2.3 in Java EE 7
- Not yet deprecated
- JSF preferred option

# Web Programming

- JavaServer pages
- Extension to servlet technology
- Bridge gap between HTML and Java code

# Web Programming

## **Additional features**

JSP scriptlets, JSP tag, custom tags, implicit objects,  
and expression language

**Used as a view template**

**Compiled as servlets**

# JSP Scriptlets

- Mix Java code and HTML
- Obscures the separation of view logic from business logic

```
<%  
    String user = request.getParameter("id") ;  
    String pwd = request.getParameter("password") ;  
<%
```

# Implicit Objects

## JSP implicit objects

request, response, pageContext, application

```
<%=request.contextPath %>
```

## EL implicit objects

request, requestScoped, pageContext, applicationScoped

```
${request.contextPath}
```



# Using EL in JSP

- Implicit objects: `${request.contextPath}`
- Bean property: `${track.trackingId}`

# Using EL in JSF

- Implicit objects: `{request.contextPath}`
- Bean property: `{track.trackingId}`

# Expression Language Syntax

## Logical operators

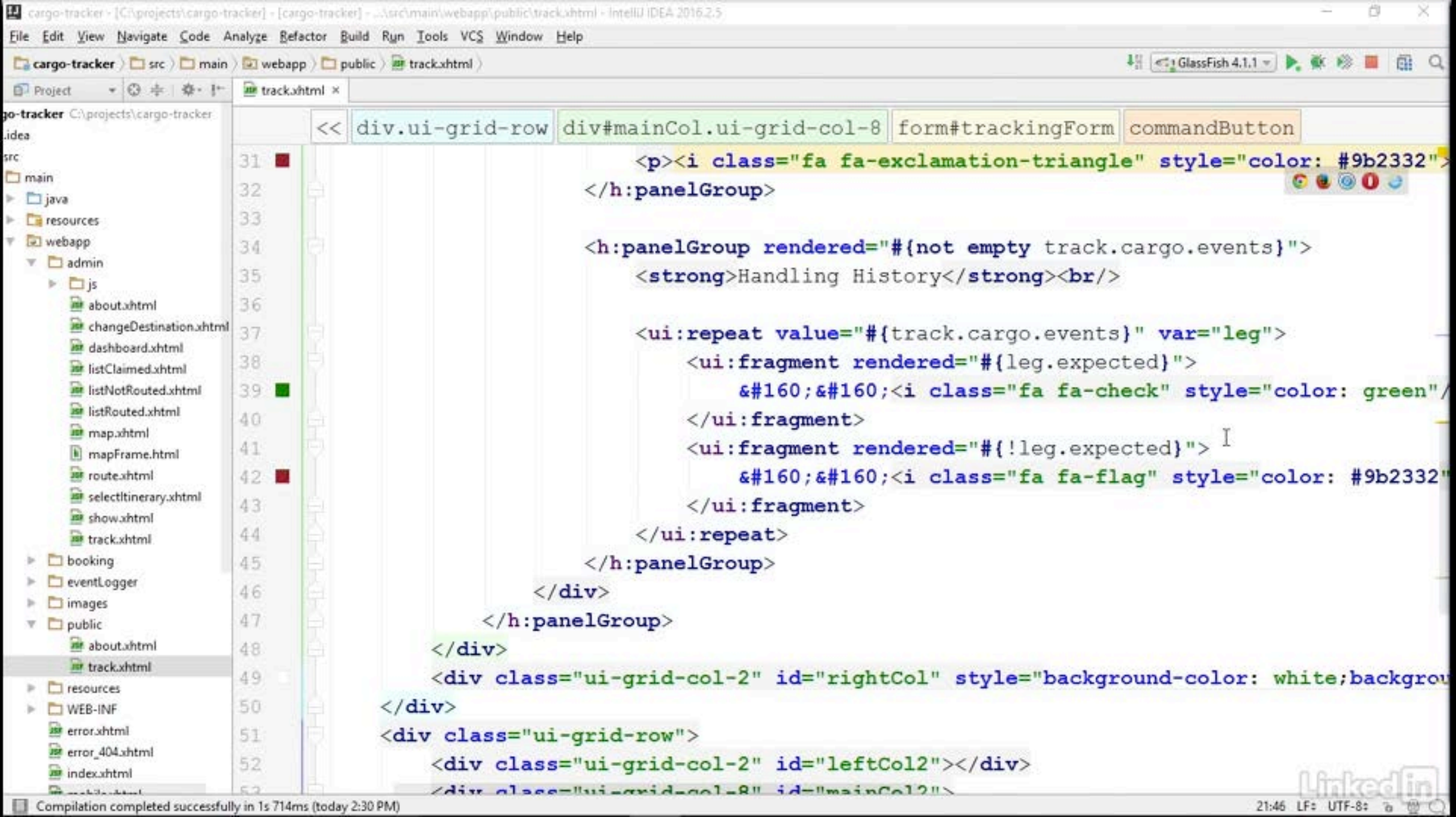
`[]`, `()`, `-`, `<`, `=`, `>`, `eq`, `ne`, `||` and more

`and`, `not`, `instanceof`, `true`, `mod`, and more

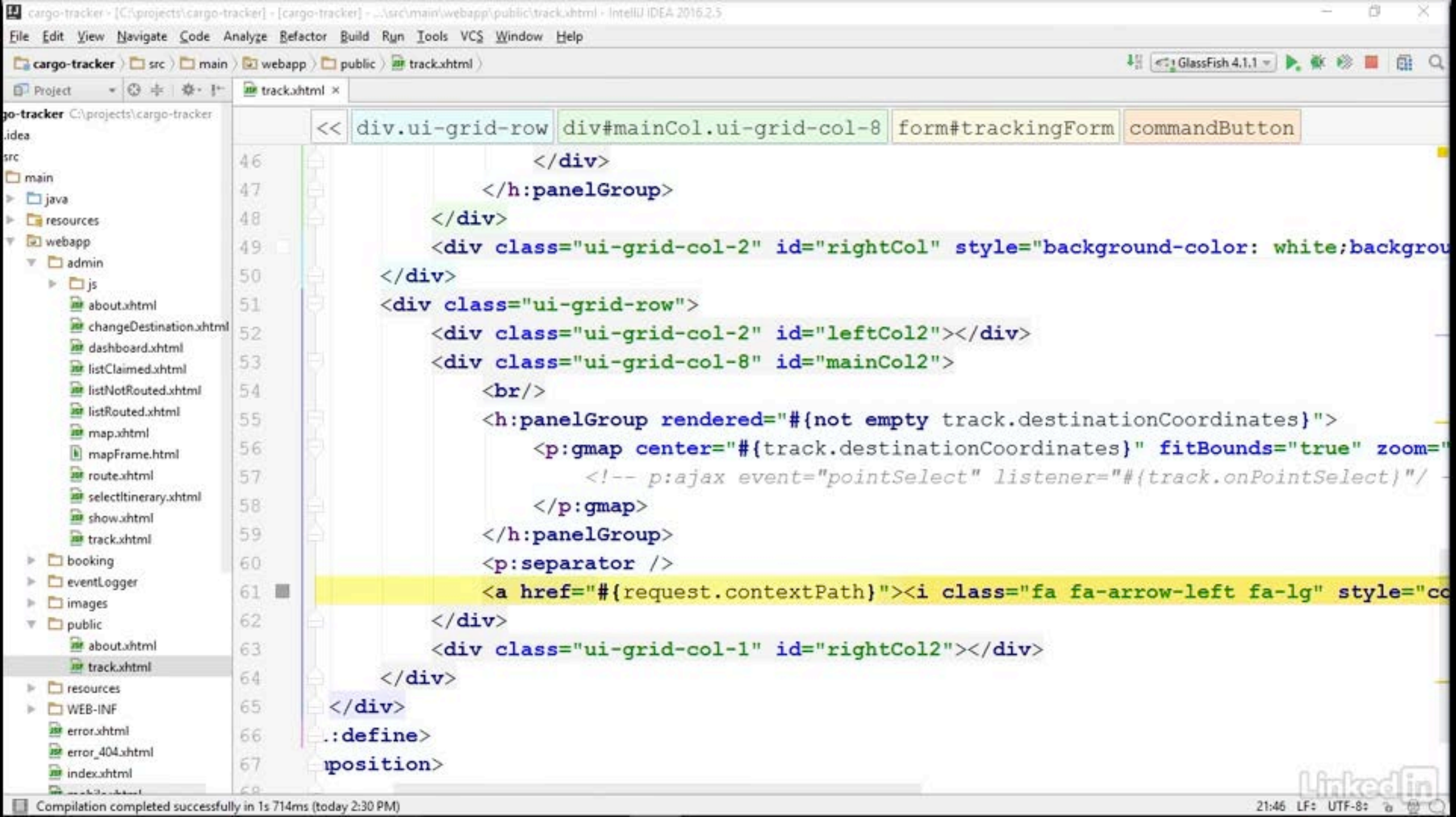
`${not empty track.cargo}`











```
46         </div>
47     </h:panelGroup>
48 </div>
49 <div class="ui-grid-col-2" id="rightCol" style="background-color: white; backgrou
50 </div>
51 <div class="ui-grid-row">
52     <div class="ui-grid-col-2" id="leftCol2"></div>
53     <div class="ui-grid-col-8" id="mainCol2">
54         <br/>
55         <h:panelGroup rendered="#{not empty track.destinationCoordinates}">
56             <p:gmap center="#{track.destinationCoordinates}" fitBounds="true" zoom="
57                 <!-- p:ajax event="pointSelect" listener="#{track.onPointSelect}"/
58             </p:gmap>
59         </h:panelGroup>
60         <p:separator />
61         <a href="#{request.contextPath}"><i class="fa fa-arrow-left fa-lg" style="co
62     </div>
63     <div class="ui-grid-col-1" id="rightCol2"></div>
64 </div>
65 </div>
66 .:define>
67 position>
```