

Cargo Tracker



Applied domain-driven design blueprints for Java EE

Public Tracking Interface

Administration Interface

Mobile Event Logger



Tracking ID





Tracking ID

a

I

[Track!](#)

ABC123

DEF789

JKL567

MNO456



Tracking ID [Track!](#)

Cargo **ABC123** is currently **In port New York**

Estimated time of arrival in **Helsinki**: 03/12/2015 12:00 AM PDT

Handling History

- ✓ Received in Hong Kong, at 03/01/2015 12:00 AM PST.
- ✓ Loaded onto voyage 0100S in Hong Kong, at 03/02/2015 12:00 AM PST.
- ✓ Unloaded off voyage 0100S in New York, at 03/05/2015 12:00 AM PST.



cargo-tracker - [C:\projects\cargo-tracker] - [cargo-tracker] - ...src\main\webapp\public\track.xhtml - IntelliJ IDEA 2016.2.5

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cargo-tracker > src > main > webapp > public > track.xhtml

Project > track.xhtml x

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 - faces-config.NavData
 - license.txt
 - nb-configuration.xml
 - nbactions.xml
 - pom.xml
 - readme - CARGOTRACKER-54.txt
 - readme.txt

html

```
1 <html xmlns="http://www.w3.org/1999/xhtml"
2   xmlns:f="http://xmlns.jcp.org/jsf/core"
3   xmlns:h="http://xmlns.jcp.org/jsf/html"
4   xmlns:ui="http://xmlns.jcp.org/jsf/facelets"
5   xmlns:p="http://primefaces.org/ui">
6   <ui:composition template="/WEB-INF/templates/common/public.xhtml">
7     <ui:define name="title">Track Cargo</ui:define>
8     <ui:define name="content">
9       <script src="http://maps.google.com/maps/api/js?sensor=false" type="text/javascript"></script>
10      <div class="ui-grid ui-grid-responsive">
11        <div class="ui-grid-row">
12          <div class="ui-grid-col-2" id="leftCol"></div>
13          <div class="ui-grid-col-8" id="mainCol">
14            <br/>
15            <h:form id="trackingForm">
16              <p:outputLabel value="Tracking ID " />
17              <p:autoComplete id="trackIdInput" value="#{track.trackingId}"
18                required="true" forceSelection="true"
19                completeMethod="#{track.completeTracking}" />
20              <p:commandButton value="Track!"
21                actionListener="#{track.onTrackById}"
22                ajax="false"/>
23            </h:form>
24          </div>
25        </div>
26      </div>
27    </ui:define>
28  </ui:composition>
29</html>
```

Compilation completed successfully in 2s 267ms (Wednesday, 2/05/2016)

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21                                 actionListener="#{track.onTrackById}"
22                                 ajax="false"/>
23                         </h:form>
24                     </div>
25                 </div>
26             </div>
27         </ui:define>
28     </ui:composition>
29 </html>
```

337 chars, 5 lines, 1.1 KB, UTF-8

Compilation completed successfully in 2s 367ms (w/idea: 2:05 PM)

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4 i="http://xmlns.jcp.org/jsf/facelets"
5 ="http://primefaces.org/ui">
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21 actionListener="#{track.onTrackById}"
22 ajax="false"/>
23 </h:form>
```

Compilation completed successfully in 2s 367ms (yesterday 2:05 PM)

ES6 class 8 Lines 22:60 1E+ 11TE 8x

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2 <html xmlns="http://www.w3.org/1999/xhtml"
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24             </h:form>
25           </div>
26         </div>
27       </div>
28     </ui:define>
29   </ui:composition>
30 </html>
```

Compilation completed successfully in 2s 367ms (last build: 2/05/2016)

304 chars 4 lines 30x60 1.5x 1175 8x

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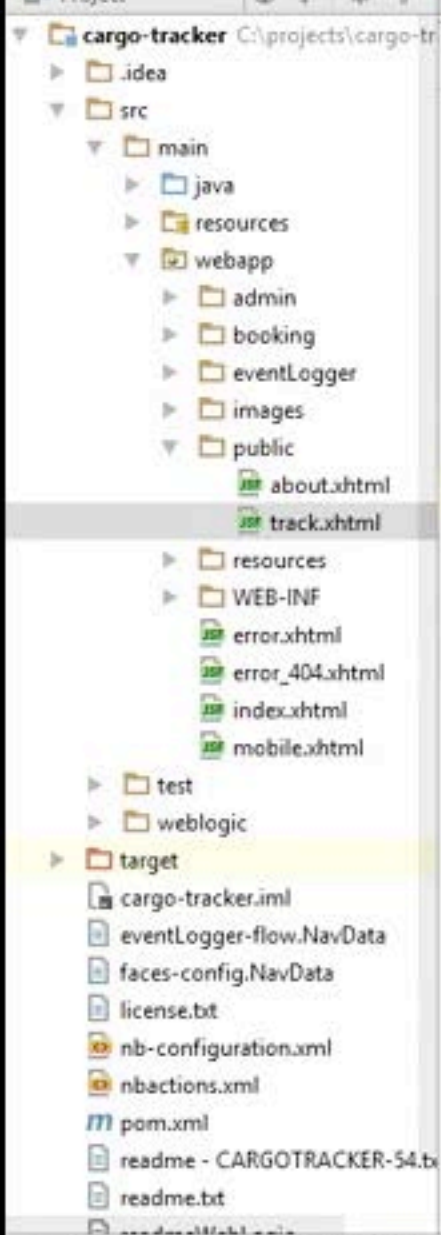
```

Track completeTracking()
92     if (lastKnowLoc != null && !lastKnowLoc.isEmpty() && !lastKnowLoc.toUpperCase()
93         String lastKnownLocName = cargo.getLastKnowLocation().getName();
94         markersModel.addOverlay(new Marker(getPortLatLng(lastKnowLoc), "Last k
95     }
96
97     return markersModel;
98 }
99
100 public List<String> completeTracking(String query) {
101     List<TrackingId> oldList = cargoRepository.getAllTrackingId();
102     List<String> newList = new ArrayList<>(oldList.size());
103     for (TrackingId oldId : oldList) {
104         newList.add(oldId.getIdString());
105     }
106     return newList;
107 }
108
109 public String getDestinationCoordinates() { return destinationCoordinates; }
110
111 public String getLastKnowCoordinate() { return lastKnowCoordinates; }
112
113
114
115
116
117 public void onTrackById() {
118

```

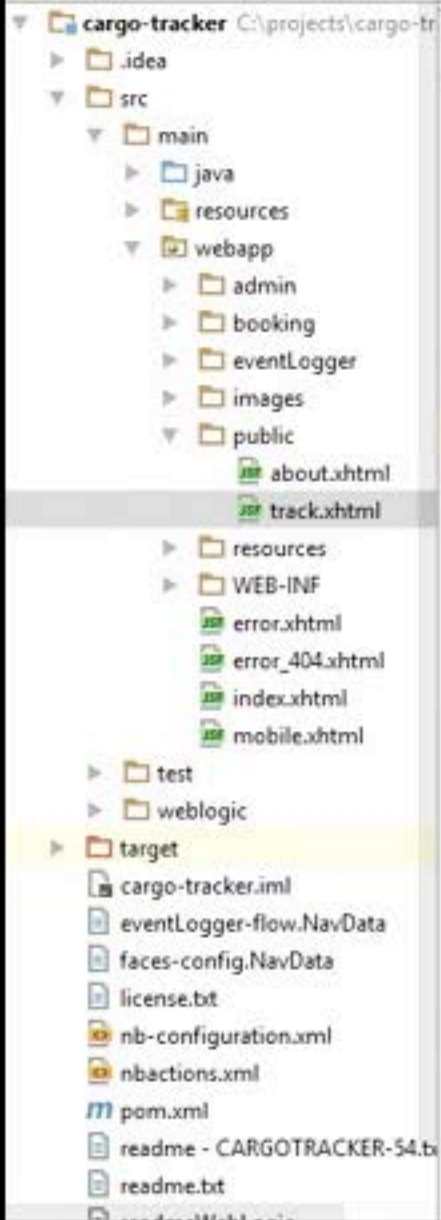
Track completeTracking()

```
92         if (lastKnowLoc != null && !lastKnowLoc.isEmpty() && !lastKnowLoc.toUpperCase().contains(" ")) {
93             String lastKnownLocName = cargo.getLastKnowLocation().getName();
94             markersModel.addOverlay(new Marker(getPortLatLng(lastKnowLoc), "Last known location: " + lastKnownLocName));
95         }
96
97         return markersModel;
98     }
99
100     public List<String> completeTracking(String query) {
101         List<TrackingId> oldList = cargoRepository.getAllTrackingId();
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103         for (TrackingId oldId : oldList) {
104             newList.add(oldId.getIdString());
105         }
106         return newList;
107     }
108
109     public String getDestinationCoordinates() { return destinationCoordinates; }
110
111     public String getLastKnowCoordinate() { return lastKnowCoordinates; }
112
113     public void onTrackById() {
```

Track

```
29 * domain model to make it easier to work with in a web page rendering context.
30 * We do not want to apply view rendering constraints to the design of our
31 * domain model, and the adapter helps us shield the domain model classes.
32 * <p/>
33 * In some very simplistic cases, it may be fine to not use even an adapter.
34 */
35 @Named
36 @ViewScoped
37 public class Track implements Serializable {
38
39     private static final long serialVersionUID = 1L;
40
41     @Inject
42     private CargoRepository cargoRepository;
43     @Inject
44     private HandlingEventRepository handlingEventRepository;
45
46     private String trackingId;
47     private CargoTrackingViewAdapter cargo;
48     private String destinationCoordinates;
49     private String lastKnowCoordinates;
50     private MapModel markersModel;
51 }
```



Track

```

29  * domain model to make it easier to work with in a web page rendering context.
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31  * domain model, and the adapter helps us shield the domain model classes.
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46      private String trackingId;
47      private CargoTrackingViewAdapter cargo;
48      private String destinationCoordinates;
49      private String lastKnowCoordinates;
50      private MapModel markersModel;
51

```


Track cargoRepository

@Named

@ViewScoped

public class Track implements Serializable {

private static final long serialVersionUID = 1L;

@Inject

private CargoRepository cargoRepository;

@Inject

private HandlingEventRepository handlingEventRepository;

private String trackingId;

private CargoTrackingViewAdapter cargo;

private String destinationCoordinates;

private String lastKnowCoordinates;

private MapModel markersModel;

public String getTrackingId() { return trackingId; }

public void setTrackingId(String trackingId) {

// TODO See if a more global trimming mechanism is needed.

if (trackingId != null) {

trackingId = trackingId.trim();

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Project > track.xhtml x Track.java x

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7      <ui:define name="title">Track Cargo</ui:define>
8      <ui:define name="content">
9          <script src="http://maps.google.com/maps/api/js?sensor=false" type="text/javascript"></script>
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20                         <p:commandButton value="Track!"
21                             actionListener="#{track.onTrackById}"
22                             ajax="false"/>
23                     </h:form>
24                     <br/>
25                     <h:panelGroup rendered="#{not empty track.cargo}">
26                         <div id="result">
27                             <p>Cargo <strong>#{track.cargo.trackingId}</strong> is c
28                             <p>Estimated time of arrival in <strong>#{track.cargo.de
29                             <f:facet name="nextActivity" rendered="#{track.cargo.nextActivity}">
```


Track onTrackById()

```
105    }
106    return newList;
107  }
108
109  public String getDestinationCoordinates() { return destinationCoordinates; }
110
111  public String getLastKnowCoordinate() { return lastKnowCoordinates; }
112
113  public void onTrackById() {
114
115      markersModel = new DefaultMapModel();
116
117      Cargo cargo = cargoRepository.find(new TrackingId(trackingId));
118
119      if (cargo != null) {
120          List<HandlingEvent> handlingEvents = handlingEventRepository
121              .lookupHandlingHistoryOfCargo(new TrackingId(trackingId))
122              .getDistinctEventsByCompletionTime();
123          this.cargo = new CargoTrackingViewAdapter(cargo, handlingEvents);
124          this.destinationCoordinates = net.java.cargotracker.application.util.LocationUtil
125              .getDestinationCoordinates(cargo);
126      } else {
127          // TODO See if this can be injected.
128      }
129  }
```

