



Turizam u pokretu – ADF Mobile Browser izazov

Dajana Buršić Dembić

Diana Mošnjaja

Turizam u pokretu

ADF Mobile Browser izazov

Osnovne premise projektnog zadatka "Kontrola kampa":

- tehnološka definicija aplikacije (pregled statusa parcela na dan, pregled dolazaka gostiju te boravka gostiju u smještajnoj jedinici, rezervacije prostora i slobodne parcele)
- mobilna aplikacija realizirana u JDeveloperu koja se može pokrenuti na što većem broju mobilnih uređaja
- što manji troškovi implementacije za krajnjeg korisnika

Turizam u pokretu

ADF Mobile Browser izazov


Kako bi se troškovi implementacije smanjili na minimum odabrana je sljedeća tehnologija:

- GlassFish 3.1 „open source“ aplikacijski server
- Oracle ADF Essentials
- Apache MyFaces Trinidad komponente

Nema dodatnih troškova

Turizam u pokretu

ADF Mobile Browser izazov

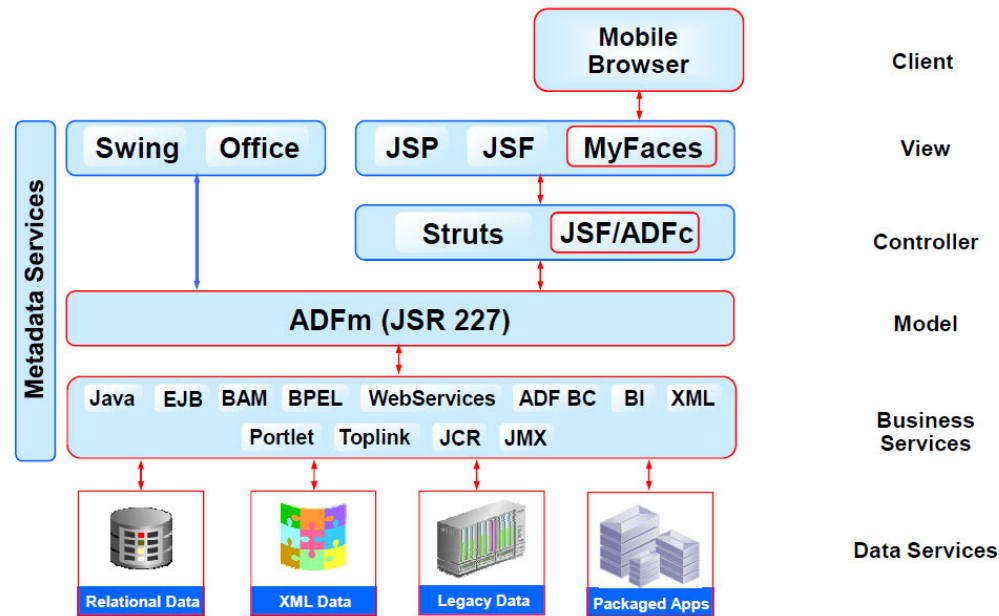
GlassFish 3.1 „open source“ server	Oracle ADF Essentials	Apache MyFaces Trinidad komponente
<p>Open source aplikacijski server pod pokroviteljstvom Oracle korporacije. GlassFish server moguće je koristiti u razvoju i produkciji pod besplatnom licencom.</p> 	<p>Java EE Framework koji kroz vizualni i deklarativni razvoj uvelike pojednostavljuje razvoj poslovnih sustava. Oracle ADF Essentials jest besplatan za razvoj i implementaciju.</p> 	<p>Podupiru preko 60 optimiziranih komponenti za mobilne uređaje a ujedno automatizmom detektiraju karakteristike preglednika. Pod besplatnom su licencom.</p> 

Turizam u pokretu

ADF Mobile Browser izazov

Odabrana tehnologija omogućila nam je preporučenu ADF arhitekturu razvoja (mvc)

ADF Mobile Browser Architecture



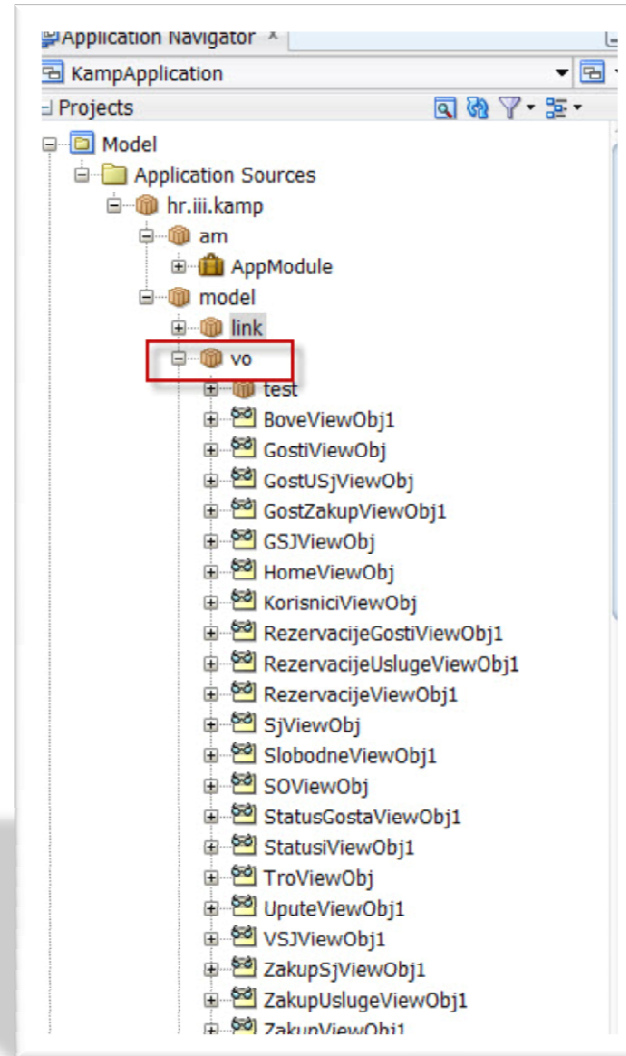
ORACLE

Turizam u pokretu

ADF Mobile Browser izazov

Model

U model dijelu postavljena su osnova poslovna pravila te je kreirano preko 20 view objekata koji su nam omogućili brzi pregled i pretraživanje po podacima.

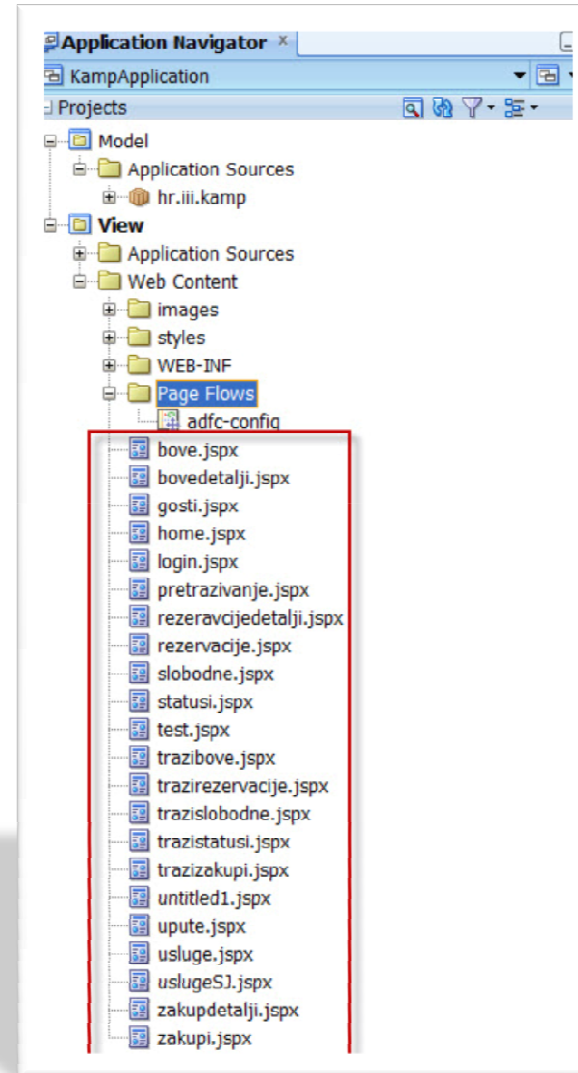


Turizam u pokretu

ADF Mobile Browser izazov

View

Kreirano je preko 20 stranica za pregled na mobilnom uređaju.



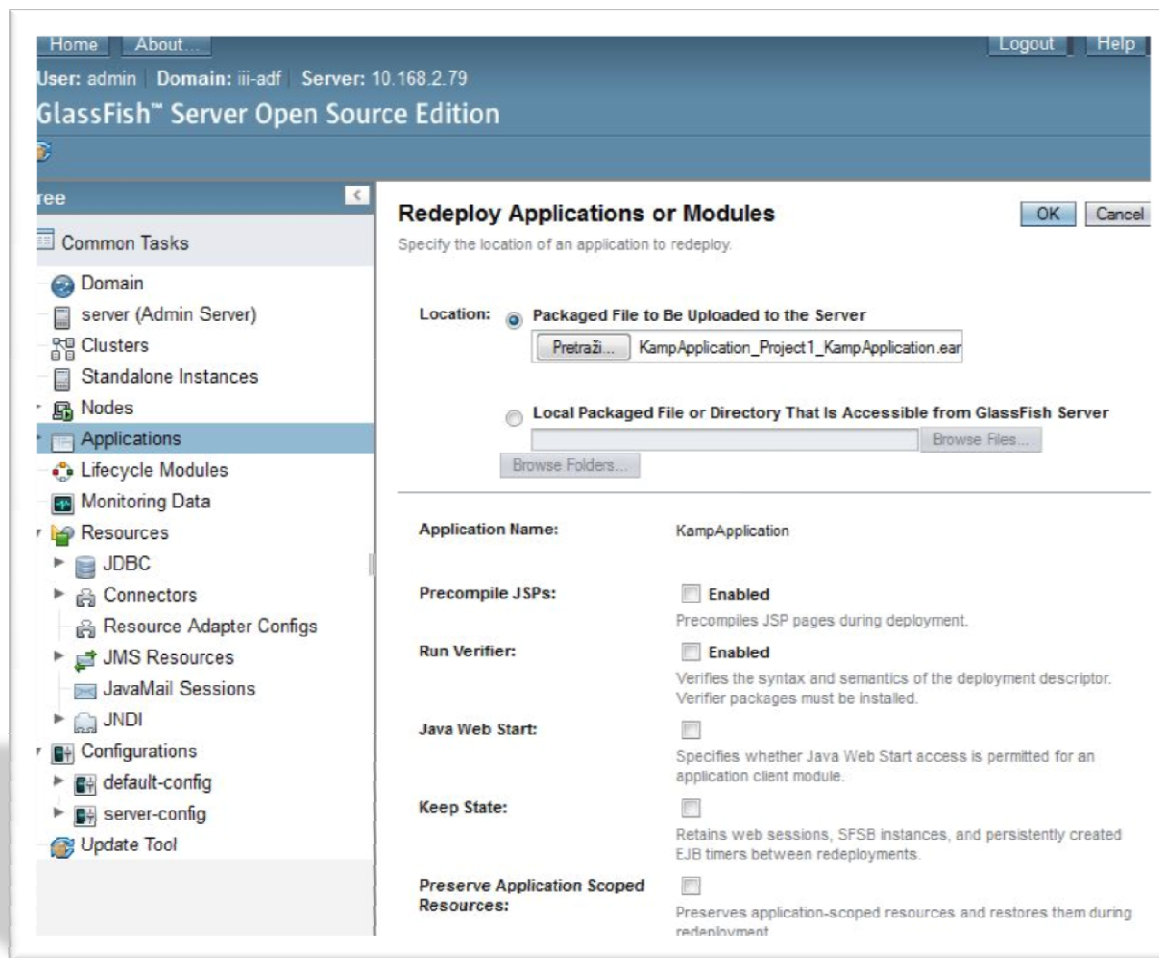
Turizam u pokretu

ADF Mobile Browser izazov



Deploy

Aplikacija je implementirana na GlassFish aplikacijski server.

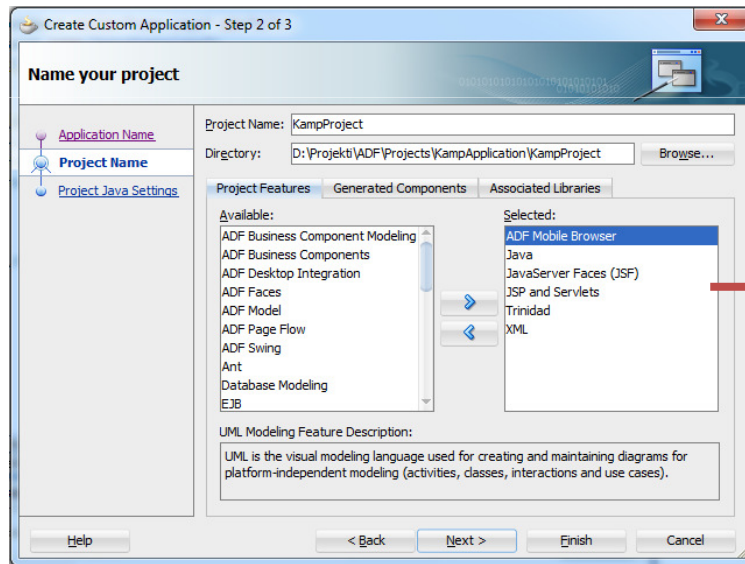


Turizam u pokretu

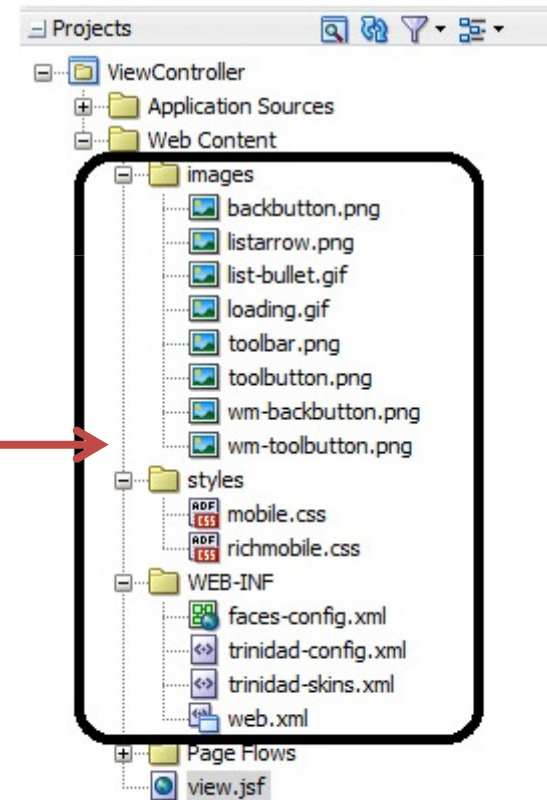
ADF Mobile Browser izazov

Što dobivamo uključivanjem ADF Mobile Browser svojstva u projekt?

Kreiranje aplikacije



„Custom application”

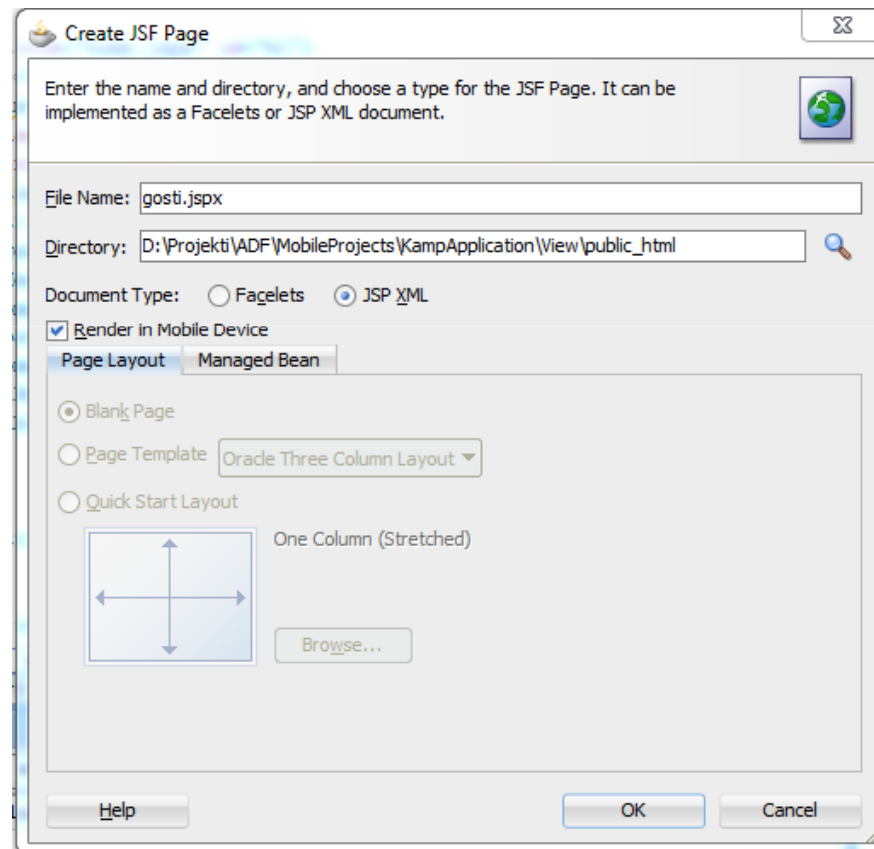


Turizam u pokretu

ADF Mobile Browser izazov

Stranice

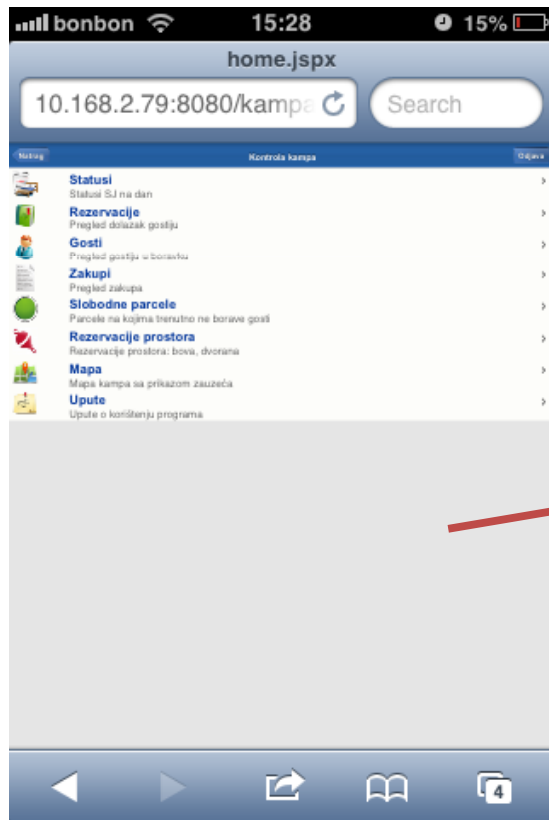
- Prilikom formiranja stranice potrebno je kreirati JSPX stranice sa podrškom za mobitele!



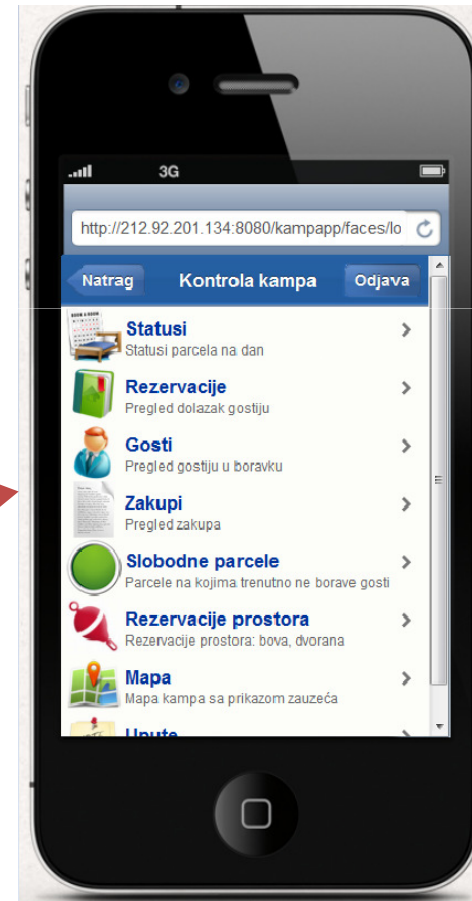
Turizam u pokretu

ADF Mobile Browser izazov

Default view



View after



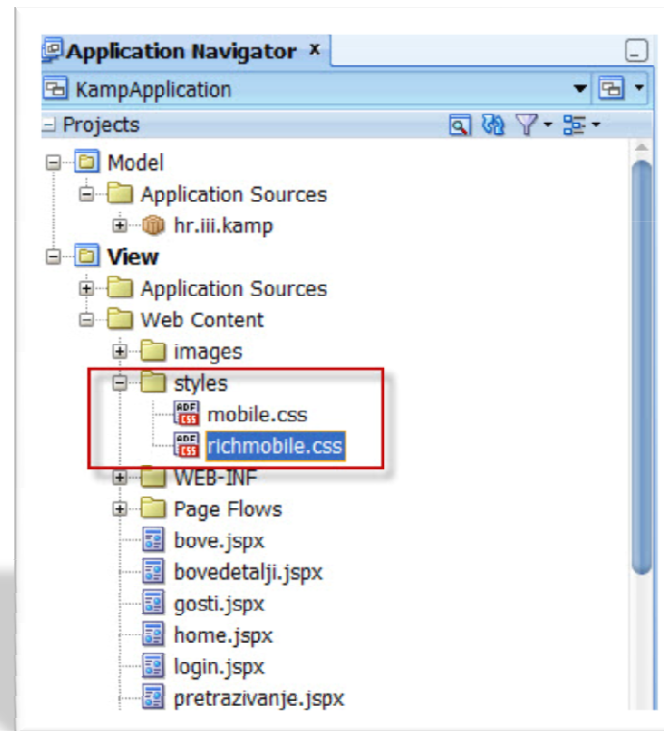
Turizam u pokretu

ADF Mobile Browser izazov

Optimizacija Web UI za mobitele

CSS

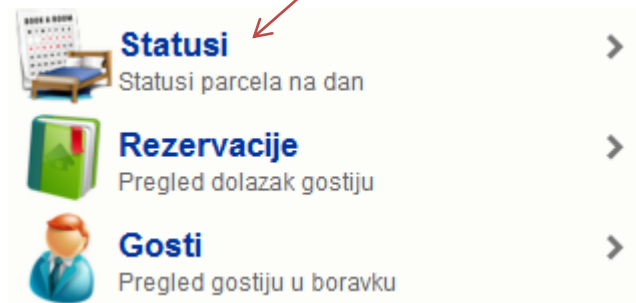
Korištenje predefiniраних
stilova za Trinidad UI
komponente



Turizam u pokretu

ADF Mobile Browser izazov

```
<tr:column sortProperty="#{bindings.HomeViewObj1.hints.Name.name}" sortable="false" id="c2" width="80%">
  <tr:panelGroupLayout id="pg11" layout="vertical">
    <tr:commandLink text="#{row.bindings.Name.inputValue}" id="cl3"
      actionListener="#{action_session_bean.goMap}"
      action="#{action_session_bean.doNext}" styleClass="af_m_listingLink">
    <f:attribute name="action" value="#{row.bindings.Action.inputValue}"/></tr:commandLink>
    <tr:outputText value="#{row.bindings.Opis.inputValue}" id="ot2"
      styleClass="af_m_listingDetails"/>
  </tr:panelGroupLayout>
</tr:column>
```



Turizam u pokretu

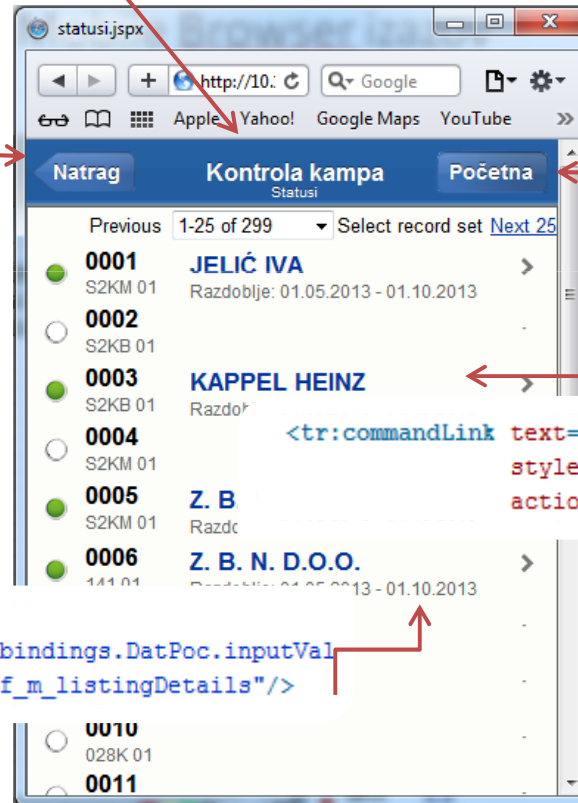
ADF Mobile Browser izazov

```
<tr:table value="#{bindings.BoveViewObj1_1.collectionModel}" var="row"
rows="#{bindings.BoveViewObj1_1.rangeSize}"
emptyText="#{bindings.BoveViewObj1_1.viewable ? 'No data to display.' : ' '}"
id="t1" inlineStyle="border:0px; width:auto; height:auto;" width="100%"
```

```
styleClass="af_m_toolbar"
```

```
styleClass="af_m_backButton"
```

```
styleClass="af_m_button"
```



```
<tr:commandLink text="#{row.bindings.Prosnaziv.inputValue}" id="c13"
styleClass="af_m_listingLink" action="next"
actionListener="#{bove_session_bean.goDetails}">
```

```
<tr:outputText id="ot4"
value="#{row.bindings.DatPoc.inputValue}"
styleClass="af_m_listingDetails"/>
```


Turizam u pokretu

ADF Mobile Browser izazov



REZULTAT:

Poslovna aplikacija „Kontrola kampa”

The screenshot displays four browser windows of the 'Kontrola kampa' application:

- login.jspx:** Login form with fields for 'Korisničko ime' (TEST) and 'Lozinka' (masked), and a 'Prijava' button.
- home.jspx:** Home menu with options: Statusi, Rezervacije, Gosti, Zakupi, Slobodne parcele, Rezervacije prostora, Mapa, and Upute.
- gosti.jspx:** Guest list table showing names and stay periods.
- usluge.jspx:** Services and guests in the room sections.

Ime	Razdoblje
MARTIN STAUDER	27.08.2006 - 30.08.2006
IVAN WEIS	30.08.2006 - 10.09.2006
GORAN ŠTEKOVIĆ	29.08.2006 - 01.09.2006
KARL HECHT	21.08.2006 - 01.09.2006
RITA JUTZ	26.08.2006 - 02.09.2006
NEVEN FISTRIĆ	29.08.2006 - 01.09.2006
GERHARD MEIER	28.08.2006 - 04.09.2006

Usluga	Kol.	Razdoblje
PVP	1	23.08.2006 - 30.08.2006.
EP	1	23.08.2006 - 30.08.2006.
TX	1	23.08.2006 - 30.08.2006.
OS	1	23.08.2006 - 30.08.2006.
RG	1	23.08.2006 - 23.08.2006.

P	Z	Ime	Prezime	Dolazak	Kol.
⊖		ELKE	MUEHLBAUER	23.08.2006.	30
⊖		ELEONORE	HOFFMANN	23.08.2006.	30
⊖		LISA	MUEHLBAUER	23.08.2006.	30
⊖		ERIC	FRANS	30.08.2006.	31
⊖		VEERLE	DE BOND	30.08.2006.	31
⊖		JELE	FRANS	30.08.2006.	31
⊖		STEIN	FRANS	30.08.2006.	31

Turizam u pokretu

ADF Mobile Browser izazov

The image displays a mobile application interface for a tourism management system. It is divided into three main sections:

- Left Panel (Calendar):** A calendar view for August 2013. The header shows 'REC2200 Tablo' and 'Apartmani 540 Lovor'. The calendar grid has columns for days 01-14 and rows for different apartment types (e.g., S2KM, S2KB, 141, S3KM, 028K, 025K, 121K, 121, 035). Green and red cells indicate occupancy status.
- Middle Panel (Guest List):** A list titled 'Kontrola kampa' (Camp Control) showing a list of guests. Each entry includes a guest ID, name, and stay dates. For example, '0001 JELIĆ IVA' with dates '01.05.2013 - 01.10.2013'. An orange starburst icon is next to the entry for '0006 Perković Antonela'.
- Right Panel (Guest Details):** A detailed view for the selected guest, 'Antonela Perković'. It shows a table of services used on the parcel, with columns for 'Usl.' (Service), 'Kol.' (Quantity), 'Razdoblje' (Period), and 'Gost' (Guest). The table lists services like 'PS' and 'BP' used during the stay period '26.06.2013.-29.08.2013'.

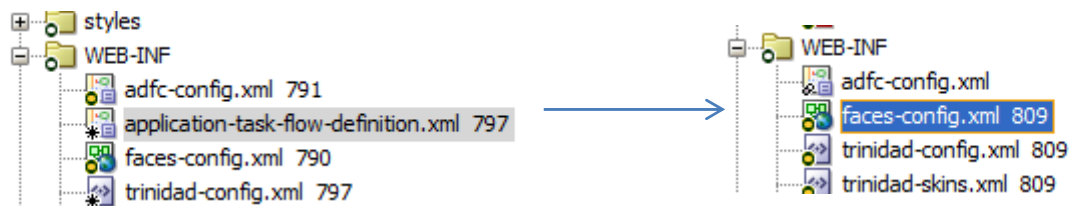
Turizam u pokretu

ADF Mobile Browser izazov

PROBLEMI

„IDLE TIMEOUT” - nakon 2 minute neaktivnosti

- Greška je locirana na GlassFish i na WebLogic serveru
- U aplikaciji se koristio ADF Task Flow – zbog više mogućnosti u odnosu na JSF Task Flow
- Zamjenom ADF Task Flowa sa JSF Task Flow-om problem je riješen



Turizam u pokretu

ADF Mobile Browser izazov

PROBLEMI

„TIMEOUT” - nakon 5 minuta

- Prijavljena greška: java.lang.NullPointerException at oracle.adfinternal.controller.application.AdfcViewScopeProvider.getViewScope(AdfcViewScopeProvider.java:43)
- Greška je locirana samo na GlassFish serveru
- Problem se ne javlja kod aplikacija koje nisu „renderirane” za mobilne uređaje
- Rješenje: tagove stranica (trh:head i trh:body) zamijeniti sa af:document

```
<jsp:directive.page contentType="text/html; charset=UTF-8"/>
<f:view>
<c:set var="viewBundle" value="#{adfBundle['hr.iii.kamp.ViewBundle']}" />
<af:document title="bovedetalji.jsp" id="b3">
  <f:facet name="metaContainer">
    <f:verbatim>
```

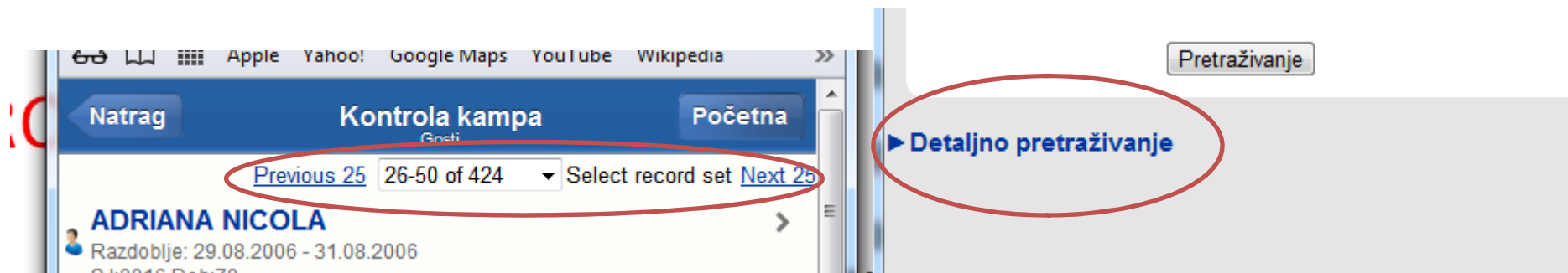
Turizam u pokretu

ADF Mobile Browser izazov

PROBLEMI

Ne radi paginacija tablica i otvaranje panel accordiona

- Paginaciji tablica te na Panel accordion je potrebno dodati refresh na RangeChangeListener odnosno na DisclosureListener
- Nakon pretraživanja, potrebno je resetirati iterator stranice te postaviti tablicu na prvi set redaka



Turizam u pokretu

ADF Mobile Browser izazov



```
public void refresh() {
    FacesContext facesContext = FacesContext.getCurrentInstance();
    String refreshpage = facesContext.getViewRoot().getViewId();
    ViewHandler viewHandler = facesContext.getApplication().getViewHandler();
    UIViewRoot viewroot = viewHandler.createView(facesContext, refreshpage);
    viewroot.setViewId(refreshpage);
    facesContext.setViewRoot(viewroot);
}

/* panel accordion, refresh*/
public void disclosureListener(DisclosureEvent disclosureEvent) {
    refresh();
}

/* navigacija na tr table ne radi ukoliko se ne doda rangeChangeListener pa refresh*/
public void rangeChanged(RangeChangeEvent rangeChangeEvent) {
    refresh();
}

/*postavljanje tablice na prvi set redaka nakon pretrazivanja */
public void beforePhase(PhaseEvent phaseEvent) {
    if (resetTable) {
        dataTable.setFirst(0);
        resetTable = false;
    }
}
```

Turizam u pokretu

ADF Mobile Browser izazov



Pitanja?

Turizam u pokretu

ADF Mobile Browser izazov



Hvala na sudjelovanju
uz srdačan pozdrav!

dajana.bursicdembic@iii.hr

diana.mosnja@iii.hr