3. cas (video 2.cas)

- 1. New JPA proj
- 2. JPA impl. type: Disable Libr. Conf.
- 3. Conf. > Convert to Maven proj...
- 4. pom.xml after build

```
<dependencies>
       <dependency>
           <groupId>mysql</groupId>
           <artifactId>mysql-connector-java</artifactId>
           <version>8.0.22
       </dependency>
       <dependency>
           <groupId>org.hibernate.javax.persistence/groupId>
           <artifactId>hibernate-jpa-2.1-api</artifactId>
           <version>1.0.2.Final
       </dependency>
       <dependency>
           <groupId>org.hibernate
           <artifactId>hibernate-core</artifactId>
           <version>5.4.22.Final
       </dependency>
   </dependencies>
```

- 5. Run as > maven install
- 6. ~/.m2/repo.../mysql/mysql-connector-java/.../....jar
- 7. Build path > Conf. Build path... > Libraries > ModulePath> JreSysLib > Edit... > Worksp. default JRE
- 8. Data Source Exp > new con. prof. > mysql > (+) new driver...> add jar ~/.m2/repo.../mysql/mysql-connector-java/.../...jar > rem old jar
- 9. fill

```
Host: nastava.is.pmf.uns.ac.rs
user: ris
password: ris2Nastava!
Schema: is2
```

- 10. JPA tools > Gen Entits from Tables... >....> Mapping defs. Key gener. > identity
- 11. model> Knjiga.java

```
...
@Entity// ← VAZNO************
@Table(name="KNJIGA") // ← VAZNO********
@NamedQuery(name="Knjiga.findAll", query="SELECT k FROM Knjiga k")
public class Knjiga implements Serializable {
    private static final long serialVersionUID = 1L;
....
```

- 12. JpaContent > persistance.xml > Connection (bottom card switcher)> Transaction type > Resource local
 - Populate from connection...
- 13. src>new pkg managers> new class JPAUtil

```
public class JPAUtil {
    private static EntityManagerFactory entityManagerFactory;

    static {
        entityManagerFactory =
Persistence.createEntityManagerFactory("BibliotekaJPA");
    }

    public static EntityManager getEntityManager() {
        return entityManagerFactory.createEntityManager();
    }
}
```

14. managers>new class KnjigaManager

```
public class KnjigaManager {
    public Knjiga saveKnjiga(String naslov, String autor, String izdavac,
String godinaIzdanja) {
        try {
            EntityManager em = JPAUtil.getEntityManager();
            Knjiga k = new Knjiga();
            k.setAutor(autor);
            k.setGodinaIzdanja(godinaIzdanja);
            k.setIzdavac(izdavac);
            k.setNaslov(naslov);
            em.getTransaction().begin();
            em.persist(k);
            em.getTransaction().commit();
            return k;
        } catch (Exception e) {
            e.printStackTrace();
```

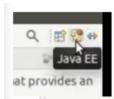
```
return null;
}
}...
```

15. KnjigaManager.java

```
public List<Knjiga> getSveKnjige(){
    EntityManager em = JPAUtil.getEntityManager();
    List<Knjiga> knjige = em.createQuery("from Knjiga",
Knjiga.class).getResultList();
    return knjige;
}
```

16. KnjigaManager.java **Testiranje zivaca (opciono)**

```
public static void main(String[] args) {
   KnjigaManager km = new KnjigaManager();
   // ODKOMENTARISI *********
//
       Knjiga knjiga = km.saveKnjiga("Hajdi", "Johana Spiri", "Laguna",
"1994");
//
       if(knjiga!=null)
//
           System.out.println("Knjiga je uspesno sacuvana. Id knjige je:
"+knjiga.getIdKnjige());
       // ********
       List<Knjiga> knjige = km.getSveKnjige();
       if(knjige!=null)
           for(Knjiga k:knjige)
               System.out.println(k.getNaslov()+", "+k.getAutor());
   }
}
```

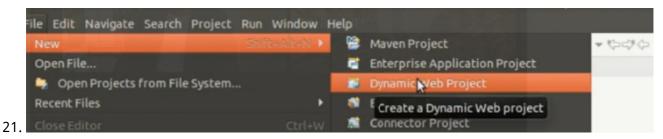


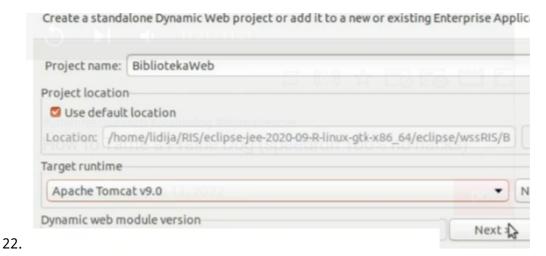
17.

```
Markers Properties Servers Data Source Explorer Snippets

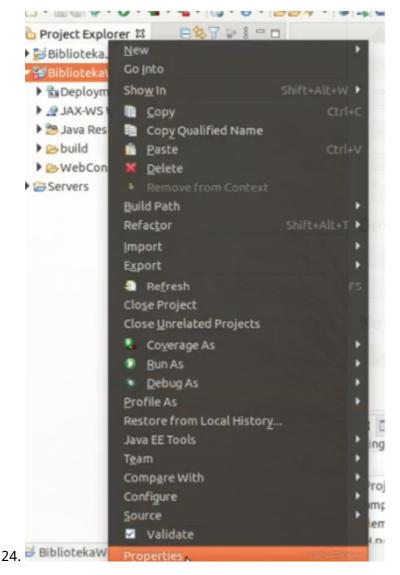
No servers are available. Click this link to create a new server...
```



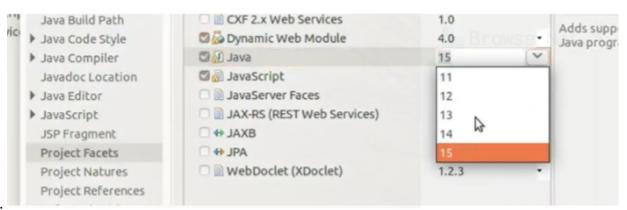




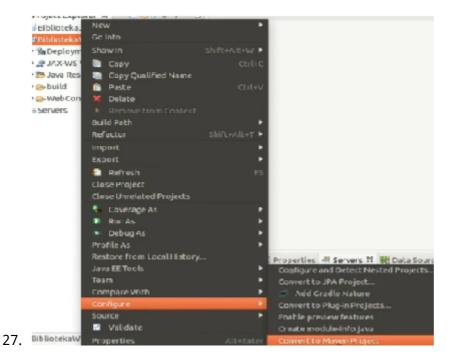






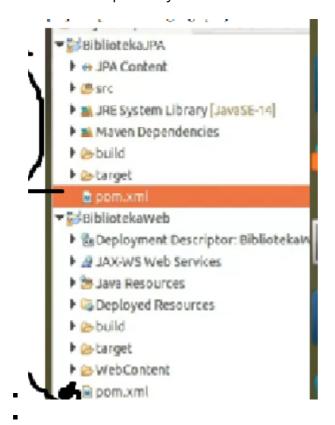


26.



28. dodavanje dependencies-a u pom.xml webappa

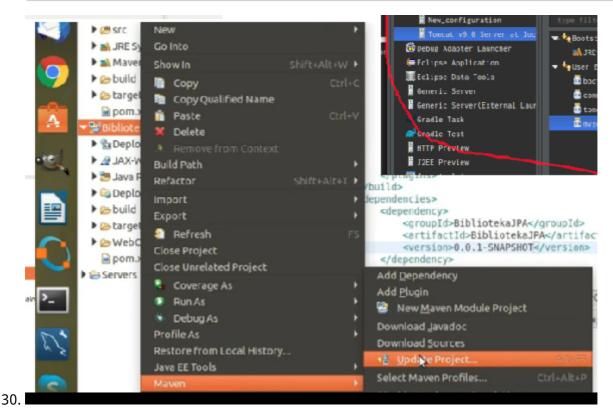
- iz BibliotekaJPA naznaka projekta
- u BibliotekaWeb dependency

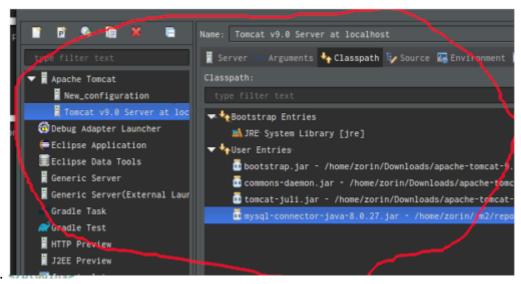


```
</dependency>
```

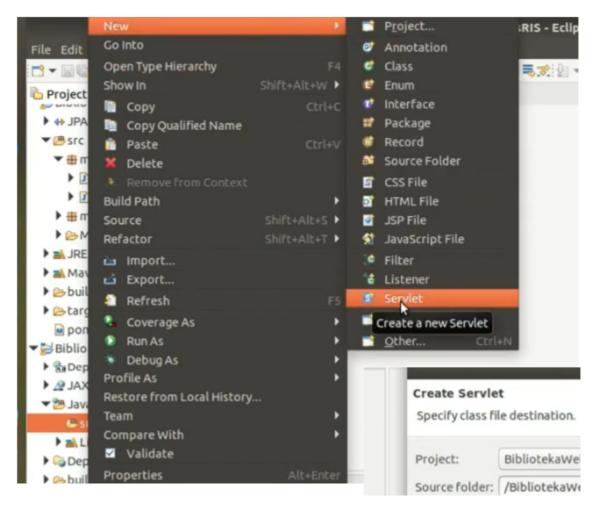
29. (mozda i ne treba) u BibliotekaWeb pom.xml

```
<dependency>
     <groupId>javax.servlet</groupId>
     <artifactId>javax.servlet-api</artifactId>
          <version>3.1.0</version>
</dependency>
```





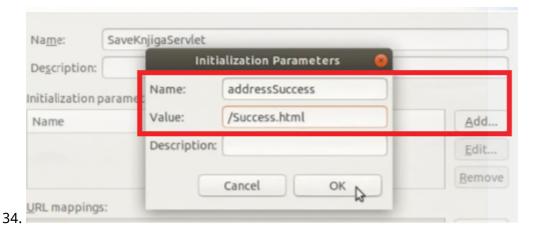
31

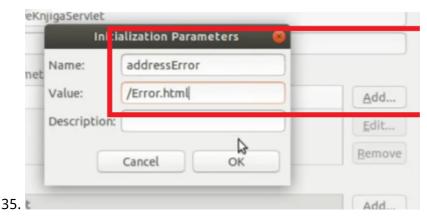


Create Servlet Specify class file destination. Project: BibliotekaWeb Source folder: /BibliotekaWeb/src Browse... servlets Java package: Browse... SaveKnjigaServlet Class name: javax.servlet.http.HttpServlet Superclass: Browse... Use an existing Servlet class or JSP eb Class name: SaveKnjigaServlet Browse... Next> ? < Back Cancel Finish

32.

33.





37.

```
1 package servlets;
         3⊕ import java.io.IOException;
        10
        110 /**
             * Servlet implementation class SaveKnjigaServlet
        12
        13 */
                                                        🎵 provera da li ovo stoji tu gde bi trebalo
        14 @WebServlet(
        15
                       tructeerns = [ ,"/SaveKnjigaServlet", };
        16
                     initParams = {
                             @WebInitParam(name = "addressSuccess", value = "/Success.html"),
@WebInitParam(name = "addressError", value = "/Error.html")
        17
        18
        19
                     })
        20
                      ass savekiijigaserviet extenus niipserviet
                 private static final long serialVersionUID = 1L;
        21
36.
```

// Ctrl + Shift + o - importovanje svega sto nije bilo importovano

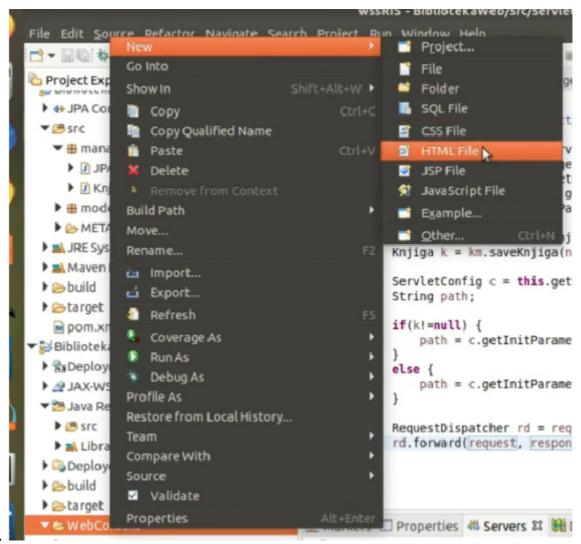
```
/**
    * @see HttpServlet#doPost(HttpServletRequest request,
HttpServletResponse response)
    */
    protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        String naslov = request.getParameter("naslovKnjige");
        String autor = request.getParameter("autorKnjige");
        String izdavac = request.getParameter("izdavacKnjige");
        String god = request.getParameter("godIzdKnjige");
```

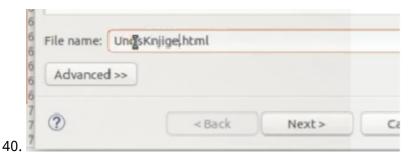
```
KnjigaManager km = new KnjigaManager();
Knjiga k = km.saveKnjiga(naslov, autor, izdavac, god);

ServletConfig c = this.getServletConfig();
String path;

if(k!=null) {
    path = c.getInitParameter("addressSuccess");
}
else {
    path = c.getInitParameter("addressError");
}

RequestDispatcher rd =
request.getServletContext().getRequestDispatcher(path);
    rd.forward(request, response);
}
```





```
<!DOCTYPE html>
41.
    <html>
    <head>
    <meta charset="UTF-8">
    <title>Unos nove knjige</title>
    </head>
    <body>
       <form action="/BibliotekaWeb/SaveKnjigaServlet" method="post">
          Naslov:
                <input type="text" name="naslovKnjige"/>
             Autor:
                <input type="text" name="autorKnjige"/>
             Izdavac:
                <input type="text" name="izdavacKnjige"/>
             Godina izdanja:
                <input type="text" name="godIzdKnjige"/>
             <input type="submit" value="Sacuvaj"/>
             </form>
    </body>
    </html>
```





Move resources to the right to configured:

Available:

Add >

Remove

Add All. >>

See Remove All

Add All. >>

See Remove All

Add All. >>

Add Al

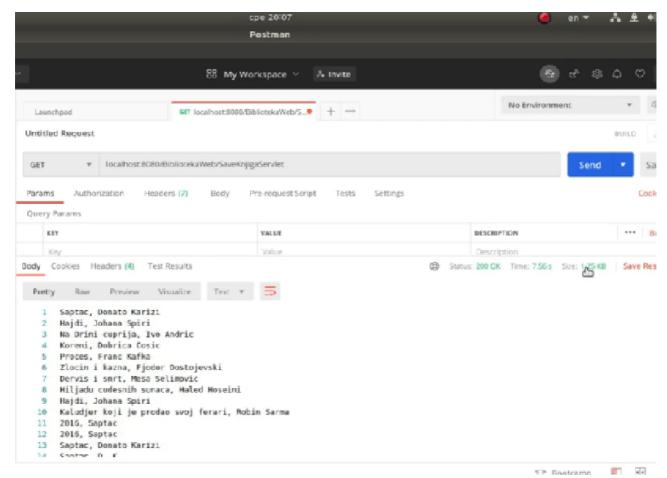
protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
 KnjigaManager km = new KnjigaManager();
 List<Knjiga> knjige = km.getSveKnjige();

 PrintWriter pw = response.getWriter();
 for(Knjiga k:knjige)
 pw.write(k.getNaslov()+", "+k.getAutor()+"\n");
 pw.flush();
 pw.close();
}

44.

46. BibliotekaJPA > managers > KnjigaManager.java

```
public List<Knjiga> getSveKnjige(){
    EntityManager em = JPAUtil.getEntityManager();
    List<Knjiga> knjige = em.createQuery("from Knjiga",
Knjiga.class).getResultList();
    return knjige;
}
```



47.

// iz postman-a je moguce slati i post metodu!

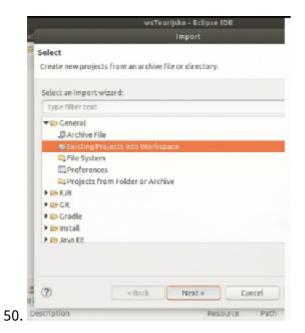
Unitide Request		BUILL
POST = localhost:8080/BibliotekaWeluSaveKnjij	gaServlet?naslovKnjige=Test&autorKnjige=TestAutor&irdava	cKnjige-Testizdavac&ş Segging
Params • Authorization Headers (8) Body Query Params	Pre-request Script Tests Settings	
KEY	VALUE	BESCRIPTION
✓ naslovičnjiga	Test	
✓ autorKnjige	TestAutor	
✓ izdavacKnjige	Testizdavac	
✓ godizdKnjige	1999	
Key	Value	Description

```
Û
Body Cookies Headers (8) Test Results
                                                                                    Status: 200 OK
                                      HTML ¥
                  Preview
                            Visualize
       DOCTYPE html
    2
       <html>
    3
    4
       <head>
    5
           <meta charset="UTF-8">
    6
           <title>Uspesno cuvanje</title>
    7
       </head>
   9
       <body>
   10
           Knjiga je uspesno sacuvana!
   11
       </body>
```

v4 <- v3 <- v2

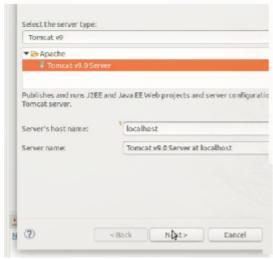
49.

importovanje projekta





54.



55.



BibliotekaWeb

% Deployment Descriptor: BibliotekaWe

JAX-WS Web Services

> Java Resources

→ ⊕ src

→ ⊕ serviets

▶ Ø SaveKnjigaServiet, java

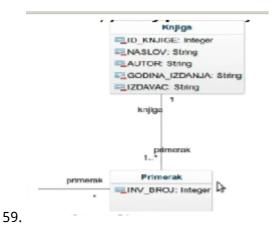
57. ▶ M Libraries

```
protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
    String naslov = request.getParameter("naslovKnjige");
    String autor = request.getParameter("autorKnjige");
    String izdavac = request.getParameter("izdavacKnjige");
    String god = request.getParameter("godIzdKnjige");
    KnjigaManager km = new KnjigaManager();
    Knjiga k = km.saveKnjiga(naslov, autor, izdavac, god);
    ServletConfig c = this.getServletConfig();
    String path;
    if(k!=null) {
        path = c.getInitParameter("addressSuccess");
    else {
        path = c.getInitParameter("addressError");
    }
    RequestDispatcher rd =
request.getServletContext().getRequestDispatcher(path);
```

```
rd.forward(request, response);
}
```

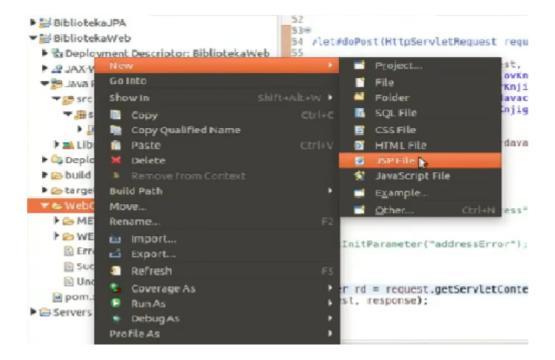
58.

```
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Unos nove knjige</title>
</head>
<body>
   <form action="/BibliotekaWeb/SaveKnjigaServlet" method="post">
      Naslov:
            <input type="text" name="naslovKnjige"/>
         Autor:
            <input type="text" name="autorKnjige"/>
         Izdavac:
            <input type="text" name="izdavacKnjige"/>
         Godina izdanja:
            <input type="text" name="godIzdKnjige"/>
         <input type="submit" value="Sacuvaj"/>
         </form>
</body>
</html>
```

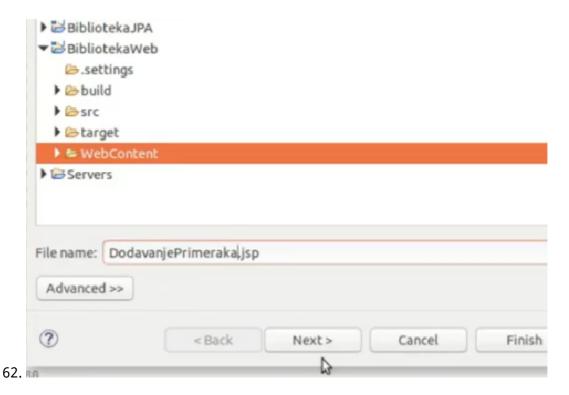


60. SaveKnjigaServlet.java

```
protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
    String naslov = request.getParameter("naslovKnjige");
    String autor = request.getParameter("autorKnjige");
    String izdavac = request.getParameter("izdavacKnjige");
    String god = request.getParameter("godIzdKnjige");
    KnjigaManager km = new KnjigaManager();
    Knjiga k = km.saveKnjiga(naslov, autor, izdavac, god);
    //
            ServletConfig c = this.getServletConfig();
    //
            String path;
    //
    //
            if(k!=null) {
    //
                path = c.getInitParameter("addressSuccess");
    //
            else {
                path = c.getInitParameter("addressError");
    //
    String poruka;
    if(k!=null)
        poruka = "Knjiga je uspesno sacuvana. Id knjige je
"+k.getIdKnjige();
    else
        poruka = "Doslo je do greske. Knjiga nije sacuvana.";
    request.setAttribute("porukaKnjiga", poruka);
    request.getSession().setAttribute("knjiga", k); // <---- ovde je</pre>
namesten session
    RequestDispatcher rd =
request.getServletContext().getRequestDispatcher("/DodavanjePrimeraka.jsp"
);
    rd.forward(request, response);
}
```



61.



63. BibliotekaWeb > pom.xml

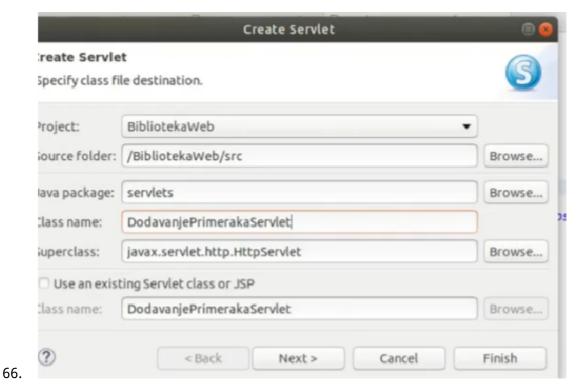
```
</dependency>
</dependencies>
```

64. BibliotekaWeb > servlets > DodavanjePrimeraka.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
pageEncoding="UTF-8"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Unos primeraka</title>
</head>
<body>
    ${porukaKnjiga}<br/>
    <c:if test="${!empty knjiga }">
        <form action="/BibliotekaWeb/DodavanjePrimerakaServlet"</pre>
method="post">
            Broj primeraka:<input type="text" name="brPrimeraka"/><br/>
            <input type="submit" value="Sacuvaj"/>
        </form>
    </c:if>
    ${porukaPrim}
    <c:if test="${!empty invBrojevi}">
        <c:forEach items="${invBrojevi}" var="br">
            ${br}.
        </c:forEach>
    </c:if>
</body>
</html>
```

65. KnjigaManager.java

```
    return invBrojevi;
}
catch(Exception e) {
    e.printStackTrace();
    return null;
}
```



DodavanjePrimerakaServlet.java

```
protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
   KnjigaManager km = new KnjigaManager();
   int brPrim = Integer.parseInt(request.getParameter("brPrimeraka"));
   Knjiga k = (Knjiga)request.getSession().getAttribute("knjiga");

List<Integer> invBrojevi = km.dodajPrimerke(k.getIdKnjige(), brPrim);

String porukaPrimerci;
   if(invBrojevi!=null && invBrojevi.size()>0)
        porukaPrimerci="Primerci su uspesno dodati. Generisani su sledeci
inventarni brojevi: ";
   else
        porukaPrimerci="Doslo je do greske. Primerci nisu sacuvani.";

request.setAttribute("porukaPrim", porukaPrimerci);
   request.setAttribute("invBrojevi", invBrojevi);

RequestDispatcher rd =
```

```
request.getServletContext().getRequestDispatcher("/DodavanjePrimeraka.jsp"
);
    rd.forward(request, response);
}
```

67. DodavanjePrimeraka.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
pageEncoding="UTF-8"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Unos primeraka</title>
</head>
<body>
    ${porukaKnjiga}<br/>
    <c:if test="${!empty knjiga }">
        <form action="/BibliotekaWeb/DodavanjePrimerakaServlet"</pre>
method="post">
            Broj primeraka:<input type="text" name="brPrimeraka"/><br/>
            <input type="submit" value="Sacuvaj"/>
        </form>
    </c:if>
    ${porukaPrim}
    <c:if test="${!empty invBrojevi}">
        <c:forEach items="${invBrojevi}" var="br">
            ${br},
        </c:forEach>
    </c:if>
</body>
</html>
```

combox

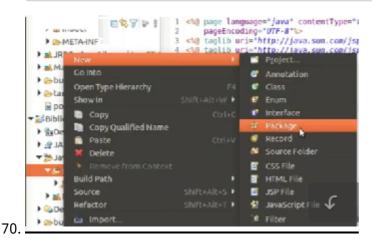
68. ClanManager.java

```
c.setPrezime(prezime);
    c.setAdresa(adresa);
    c.setDatumRodjenja(datumRodjenja);
    c.setDatumUpisa(datumUpisa);
    c.setKategorija(k);
    em.persist(c);

    em.getTransaction().commit();
    return c;
}
catch(Exception e) {
    e.printStackTrace();
    return null;
}
```

69. ClanManager.java

```
public List<Kategorija> getSveKategorije() {
    EntityManager em = JPAUtil.getEntityManager();
    List<Kategorija> kat = em.createQuery("from Kategorija k",
    Kategorija.class).getResultList();
    return kat;
}
```



71.

KategorijeBean.java

```
package beans;
import java.util.List;
import managers.ClanManager;
import model.Kategorija;
public class KategorijeBean {
    private List<Kategorija> k;
    public KategorijeBean() {
        ClanManager cm = new ClanManager();
        k = cm.getSveKategorije();
    }
    public List<Kategorija> getK() {
        return k;
    }
    public void setK(List<Kategorija> k) {
        this.k = k;
    }
}
```

72. SaveClan.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
<%@ page import="java.util.Date"%>

...

<c:set var="today" value="<%=new Date() %>"/>
<jsp:useBean id="katBean" class="beans.KategorijeBean" scope="session">
</jsp:useBean>

<form action="/BibliotekaWeb/SaveClanServlet" method="post">

    <tc:forEach items="${katBean.k}" var="kat">
         <option

value="${kat.idkategorije}">${kat.nazivkategorije}</option>
    </c:forEach>
```

```
</select>
           Ime:
           <input type="text" name="ime"/>
        Prezimeme:
           <input type="text" name="prezime"/>
        Adresa:
           <input type="text" name="adresa"/>
        Datum rodjenja:
           <input type="date" name="datumRodjenja"/>(yyyy-MM-dd)
Datum upisa:
           <input type="date" name="datumUpisa"
value='<fmt:formatDate pattern="yyyy-MM-dd"</pre>
                 value="${today}"/>' />(yyyy-MM-dd)
        <input type="submit" value="Sacuvaj"/>
     </form>
  ${poruka}
  <c:if test="${!empty clan }">${clan.clanskibroj }</c:if>
</body>
</html>
```

73. SaveClanServlet.java

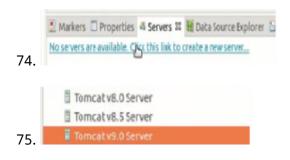
```
protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
   String ime = request.getParameter("ime");
   String prezime = request.getParameter("prezime");
   String adresa = request.getParameter("adresa");
   Integer idK = Integer.parseInt(request.getParameter("idKat"));

SimpleDateFormat sdf = new SimpleDateFormat("yyyy-MM-dd");

Date datumRodjenja=null, datumUpisa=null;
```

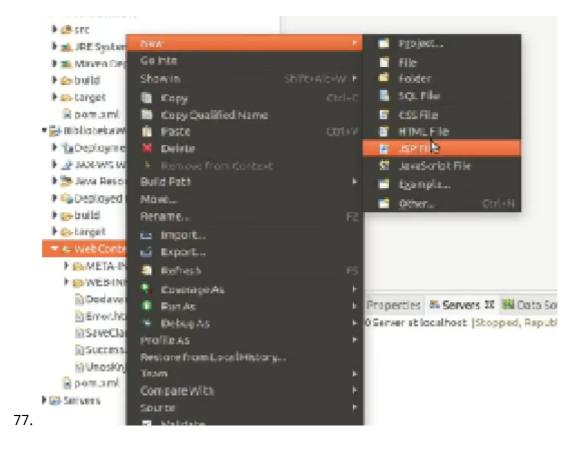
```
try {
        datumRodjenja=sdf.parse(request.getParameter("datumRodjenja"));
        datumUpisa=sdf.parse(request.getParameter("datumUpisa"));
    } catch (ParseException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    }
    ClanManager cm= new ClanManager();
    Clan c = cm.saveClan(ime, prezime, adresa, datumRodjenja, datumUpisa,
idK);
    String poruka;
    if(c!=null)
        poruka="Clan je uspesno sacuvan. Id clana je ";
    else
        poruka="Doslo je do greske. Clan nije sacuvan.";
    request.setAttribute("poruka", poruka);
    request.setAttribute("clan", c);
    RequestDispatcher rd =
request.getServletContext().getRequestDispatcher("/SaveClan.jsp");
    rd.forward(request, response);
}
```

5. vezbe



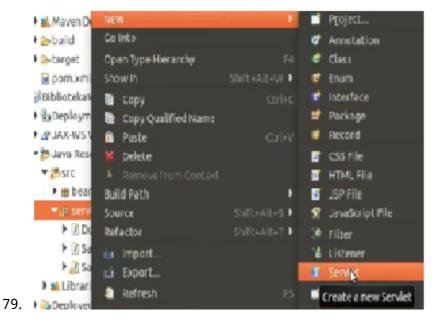
76. ubaciti skinut apache tomcat 9





78. ubacivanje u UnosZaduzenja.jsp

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/fmt" prefix="fmt"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Unos novog zaduzenja</title>
</head>
<body>
    <form action="/BibliotekaWeb/UnosZaduzenjaServlet" method="post">
        Clanski broj: <input type="text" name="clanskiBroj"/><br/>
        Inventarni broj: <input type="text" name="invBroj"><br/>
        <input type="submit" value="Sacuvaj"/>
    </form>
</body>
</html>
```



80. UnosZaduzenjaServlet.java

```
protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        Integer clBr =
Integer.parseInt(request.getParameter("clanskiBroj"));
        Integer invBr = Integer.parseInt(request.getParameter("invBroj"));
        ClanManager cm = new ClanManager();
        Zaduzenje z = cm.saveZaduzenje(clBr, invBr);
        String poruka;
        if(z!=null)
            poruka="Zaduzenje je uspesno uneto.";
        else
           poruka="Doslo je do greske. Zaduzenje nije sacuvano.";
        request.setAttribute("poruka", poruka);
        request.getSession().setAttribute("zaduzenje", z);
        RequestDispatcher rd =
request.getServletContext().getRequestDispatcher("/PrikazZaduzenja.jsp");
        rd.forward(request, response);
   }
```

o ima i varijanta gde je odmah na UnosZaduzenja.jsp ispisano,

```
RequestDispatcher rd = request.getServletContext().getRequestDispatcher("/UnosZaduzenja.jsp");

| Spis na Istoj | Stranici | ---- ili | ---- ispis na nekoj | drugoj |
| RequestDispatcher rd = request.getServletContext().getRequestDispatcher("/pritasZaduzenja.jsp");
| rd. forward[| request_response(); | response(); |
```

o ima i varijanta gde je prvo radila bez

request.setAttribute('poruka', poruka); request.setAttribute("2aduzemie", 2);

81. BibliotekaJPA > managers > ClanManager.java

```
public Zaduzenje saveZaduzenje(int clBroj, int invBroj) {
        try {
            EntityManager em =JPAUtil.getEntityManager();
            em.getTransaction().begin();
            Clan c = em.find(Clan.class, clBroj);
            Primerak p = em.find(Primerak.class, invBroj);
            Zaduzenje z = new Zaduzenje();
            z.setClan(c);
            z.setPrimerak(p);
            z.setDatumZaduzenja(new Date());
            em.persist(z);
            em.getTransaction().commit();
            return z;
        }
        catch(Exception e) {
            e.printStackTrace();
            return null;
        }
    }
```

82. PrikazZaduzenja.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
pageEncoding="UTF-8"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/fmt" prefix="fmt"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Prikaz zaduzenja</title>
</head>
<body>
    ${poruka}
    <c:if test="${!empty zaduzenje}">
        Zaduzen je clan ${zaduzenje.clan.ime } ${zaduzenje.clan.prezime },
${zaduzenje.clan.clanskibroj }.<br/>
        Zaduzen je primerak knjige ${zaduzenje.primerak.knjiga.naslov },
${zaduzenje.primerak.knjiga.autor}, inventarni broj:
${zaduzenje.primerak.invBroj } <br/>
```

mozemo pokrenuti DodavanjeR Run As D 1 Run on Server Error.html Debug As Run Configurations PrikazZadu: Profile As SaveClan.js Team Success.htm Compare With UnosKnjige. Replace With UnosZadu 83.

84. VratiZaduzenjaServlet.java

```
protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
    Integer clBr = Integer.parseInt(request.getParameter("clanskiBroj"));

    ClanManager cm = new ClanManager();
    List<Zaduzenje> z = cm.getSvaZaduzenja(clBr);

    request.setAttribute("zaduzenja", z);
    request.getSession().setAttribute("clanskiBroj", clBr);
    RequestDispatcher rd =
request.getServletContext().getRequestDispatcher("/PrikazZaduzenja.jsp");
    rd.forward(request, response);
}
```

85. BibliotekaJPA > managers > ClanManager.java

86. PrikazZaduzenja.jsp dopuna neka nakon vec implementiranog koda

```
<c:if test="${!empty zaduzenja}">
```

```
Naslov
         Autor
         Izdavac
         Godina izdanja
         Inventarni broj
         Datum zaduzenja
         Razduzenje
      <c:forEach items="${zaduzenja}" var="z">
         ${z.primerak.knjiga.naslov}
            ${z.primerak.knjiga.autor}
            ${z.primerak.knjiga.izdavac }
            ${z.primerak.knjiga.godinaIzdanja}
            ${z.primerak.invBroj}
            ${z.datumZaduzenja}
            <c:if test="${empty z.datumVracanja }">
                  <a href="/BibliotekaWeb/RazduziServlet?</pre>
id=${z.id}">Razduzi</a>
               <c:if test="${!empty z.datumVracanja }">
                  ${z.datumVracanja}
               </c:if>
            </c:forEach>
   </c:if>
```

87. RazduziServlet.java

```
protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
    Integer id = Integer.parseInt(request.getParameter("id"));
    ClanManager cm = new ClanManager();

    boolean ok = cm.razduzi(id);
    if(ok) {
        Integer clBr =
    (Integer)request.getSession().getAttribute("clanskiBroj");
        List<Zaduzenje> zad = cm.getSvaZaduzenja(clBr);
        request.setAttribute("zaduzenja", zad);
    }
    RequestDispatcher rd =
request.getServletContext().getRequestDispatcher("/PrikazZaduzenja.jsp");
    rd.forward(request, response);
}
```

88. BibliotekaJPA > ClanManager.java

```
public boolean razduzi(int id) {
    try {
        EntityManager em = JPAUtil.getEntityManager();
        em.getTransaction().begin();

        Zaduzenje z = em.find(Zaduzenje.class, id);
        z.setDatumVracanja(new Date());
        em.merge(z);

        em.getTransaction().commit();
        return true;
    }
    catch(Exception e) {
        e.printStackTrace();
        return false;
    }
}
```

89. VratiZaduzenjaServlet.java

```
protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
    Integer clBr = Integer.parseInt(request.getParameter("clanskiBroj"));

    ClanManager cm = new ClanManager();
    List<Zaduzenje> z = cm.getSvaZaduzenja(clBr);

    request.setAttribute("zaduzenja", z);
    request.getSession().setAttribute("clanskiBroj", clBr);
    RequestDispatcher rd =
    request.getServletContext().getRequestDispatcher("/PrikazZaduzenja.jsp");
    rd.forward(request, response);
}
```

zelimo da prikaz zaduzenja izgleda ovako:

Zaduzen je clan Pera Peric, 9. Zaduzen je primerak knjige Hajdi, Johana Spiri, inventarni broj: 4

90.

```
/// ali ovaj deo nakon otvaranna zaduzema nestane
// razlog je taj sto se klikom na link prikaza se pravi novi
zahtev i parametar zaduzenje se anulira
```

Prikaz svih zaduzenja

// ovo necemo da prilagodimo, jer nam je njegova svrha kratkotrajna

91.

```
// expression
language
implicitno poziva
parametar
zaduzenje iz
sesije
```

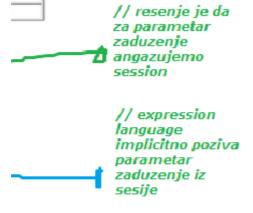
93. UnosZaduzenjaServlet.java

0

```
request.getSession().setAttribute("zaduzenje", z);
```

94. PrikazZaduzenja.jsp

```
...
<body>
     ${poruka}
     <c:if test="${!empty zaduzenje}">
...
```

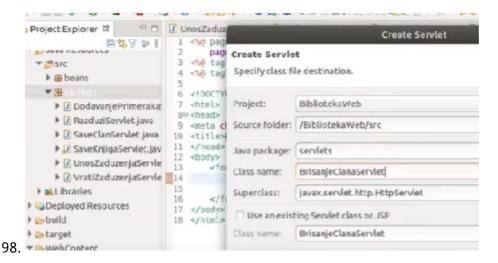


95.

v6



97. BrisanjeClana.jsp



99. BrisanjeClanaServlet.java

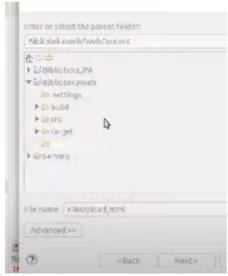
```
protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
   Integer clBr = Integer.parseInt(request.getParameter("clanskiBroj"));
   ClanManager cm = new ClanManager();
   boolean ok = cm.deleteClan(clBr);

   if(ok)
        request.setAttribute("msg", "Clan i njegova zaduzenja su
obrisani.");
   else
        request.setAttribute("msg", "Doslo je do greske, brisanje nije
uspelo.");
   RequestDispatcher rd =
request.getServletContext().getRequestDispatcher("/BrisanjeClana.jsp");
   rd.forward(request, response);
}
```

100. BibliotekaJPA > managers > ClanManager.java

```
public boolean deleteClan(Integer clBroj) {
    try {
        EntityManager em=JPAUtil.getEntityManager();
        em.getTransaction().begin();
        Clan c = em.find(Clan.class, clBroj);
        /////// NEISPRAVNO
        // List<Zaduzenje> zaduzenjaClana = getSvaZaduzenja(clBroj);
        List<Zaduzenje> zaduzenjaClana = em.createQuery(""
                + "select z from Zaduzenje z where "
                + "z.clan.clanskibroj=:br", Zaduzenje.class)
                .setParameter("br", clBroj)
                .getResultList();
        for(Zaduzenje z:zaduzenjaClana) {
           em.remove(z);
        em.remove(c);
        em.getTransaction().commit();
        return true;
    }
    catch (Exception e) {
        e.printStackTrace();
        return false;
    }
}
```

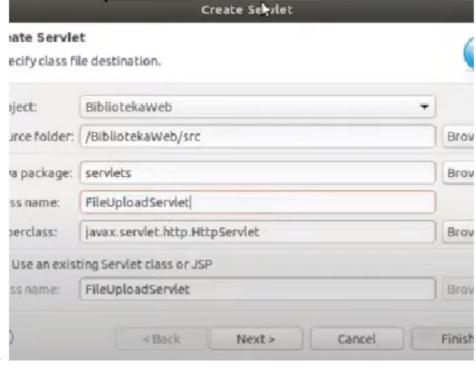
rad sa fajlovima





- 3.
 3.
 taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
- 4. FileUpload.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
    pageEncoding="UTF-8"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Upload file</title>
</head>
<body>
    <form action="/BibliotekaWeb/FileUploadServlet" method="post"</pre>
enctype="multipart/form-data">
        Description: <input type="text" name="description"/><br/>
        <input type="file" name="file"/> <br/>
        <input type="submit" value="Sacuvaj"/>
    </form>
    ${poruka}
</body>
</html>
```



6. FileUploadServlet.java

```
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
@MultipartConfig(
        fileSizeThreshold=5242880, //5MB
        maxFileSize=20971520L, //20MB
        maxRequestSize=41943040L //40MB
@WebServlet("/FileUploadServlet")
public class FileUploadServlet extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
            String poruka;
            try {
                String description = request.getParameter("description");
                Part filePart = request.getPart("file");
                String
fileName=Paths.get(filePart.getSubmittedFileName()).toString();
                java.io.InputStream fileContent = filePart.getInputStream();
                String uploadPath =
System.getProperty("user.home")+File.separator+fileName;
                File file = new File(uploadPath);
                OutputStream out = new FileOutputStream(file);
                file.createNewFile();
                IOUtils.copy(fileContent, out);
                fileContent.close();
                out.close();
                poruka = "Slika je uspesno sacuvana.";
            } catch (Exception e) {
```

```
// TODO Auto-generated catch block
    e.printStackTrace();
    poruka = "Doslo je do greske. Slika nije sacuvana.";
}

RequestDispatcher rd =
request.getServletContext().getRequestDispatcher("/FileUpload.jsp");
    request.setAttribute("poruka", poruka);
    rd.forward(request, response);
}
```

