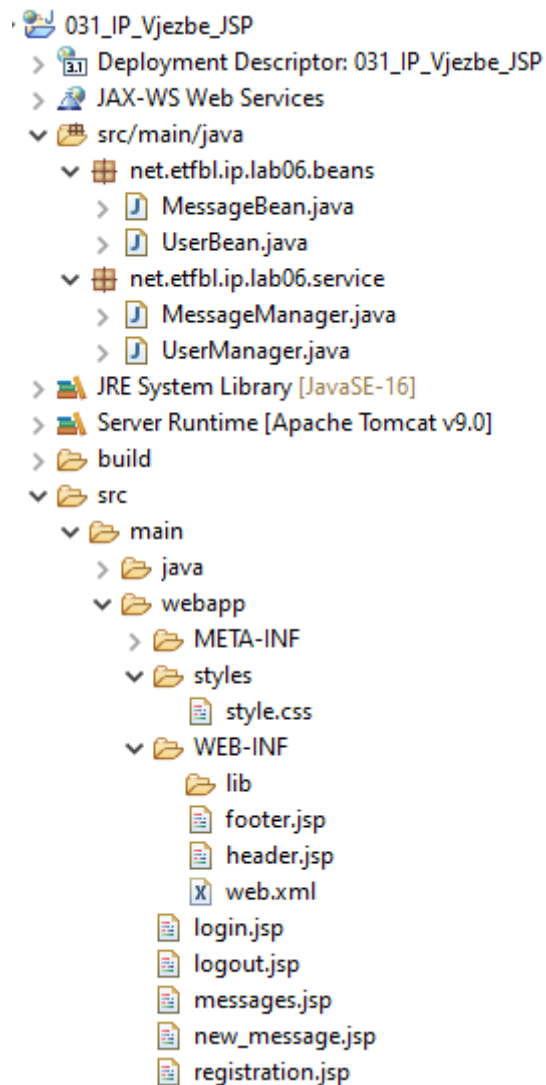


ИНТЕРНЕТ ПРОГРАМИРАЊЕ
ВЈЕЖБЕ – 06 – JSP
АНАЛИЗА ПРИМЈЕРА
ВИДЕО И МАТЕРИЈАЛИ



MessageBean.java

```
package net.etfbl.ip.lab06.beans;

import java.io.Serializable;

public class MessageBean implements Serializable {

    private static final long serialVersionUID = 1L;
    private String text;
    private String user;
    private String createTime;
    private String IPAddress;

    public String getText() {
        return text;
    }

    public void setText(String text) {
        this.text = text;
    }

    public String getUser() {
        return user;
    }

    public void setUser(String user) {
        this.user = user;
    }

    public String getCreateTime() {
        return createTime;
    }

    public void setCreateTime(String createTime) {
        this.createTime = createTime;
    }

    public String getIPAddress() {
        return IPAddress;
    }

    public void setIPAddress(String ipAddress) {
        IPAddress = ipAddress;
    }

}
```

UserBean.java

```
package net.etfbl.ip.lab06.beans;

import java.io.Serializable;

public class UserBean implements Serializable {

    private static final long serialVersionUID = 1L;
    private String username;
    private String password;
    private String lastName;
    private String firstName;
    private boolean loggedIn = false;

    public String getUsername() {
        return username;
    }

    public void setUsername(String username) {
        this.username = username;
    }

    public String getPassword() {
        return password;
    }

    public void setPassword(String password) {
        this.password = password;
    }

    public String getLastName() {
        return lastName;
    }

    public void setLastName(String lastName) {
        this.lastName = lastName;
    }

    public String getFirstName() {
        return firstName;
    }

    public void setFirstName(String firstName) {
        this.firstName = firstName;
    }
}
```

```

➤ public String getFirstName() {
    return firstName;
}

➤ public void setFirstName(String firstName) {
    this.firstName = firstName;
}

➤ public boolean isLoggedIn() {
    return loggedIn;
}

➤ public void setLoggedIn(boolean loggedIn) {
    this.loggedIn = loggedIn;
}

➤ @Override
public int hashCode() {
    final int prime = 31;
    int result = 1;
    result = prime * result + ((username == null) ? 0 : username.hashCode());
    return result;
}

➤ @Override
public boolean equals(Object obj) {
    if (this == obj)
        return true;
    if (obj == null)
        return false;
    if (getClass() != obj.getClass())
        return false;
    UserBean other = (UserBean) obj;
    if (username == null) {
        if (other.username != null)
            return false;
    } else if (!username.equals(other.username))
        return false;
    return true;
}

}

```

MessageManager.java

```
package net.etfb1.ip.lab06.service;

import java.io.Serializable;

public class MessageManager implements Serializable {

    private static final long serialVersionUID = 1L;
    private ArrayList<MessageBean> messages = new ArrayList<MessageBean>();

    public void addMessage(MessageBean m) {
        messages.add(m);
    }

    public ArrayList<MessageBean> getMessages() {
        return messages;
    }

    public void setMessages(ArrayList<MessageBean> messages) {
        this.messages = messages;
    }

}
```

UserManager.java

```
package net.etfbl.ip.lab06.service;

import java.io.Serializable;

public class UserManager implements Serializable {

    private static final long serialVersionUID = 1L;

    private ArrayList<UserBean> users = new ArrayList<UserBean>();

    public ArrayList<UserBean> getUsers() {
        return users;
    }

    public void setUsers(ArrayList<UserBean> users) {
        this.users = users;
    }

    public UserBean loginUser(String username, String password) {
        if(username==null || password == null) {
            return null;
        }
        for (UserBean u : users) {
            if (u.getUsername().equals(username.trim()) && u.getPassword().equals(password.trim()))
                return u;
        }
        return null;
    }

    public boolean registerUser(UserBean newUser) {
        if (users.contains(newUser)) {
            return false;
        } else {
            users.add(newUser);
            return true;
        }
    }
}
```

web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://xmlns.jcp.org/xml/ns/javaee"
    <display-name>Lab06_JSP</display-name>
    <welcome-file-list>
        <welcome-file>index.html</welcome-file>
        <welcome-file>index.htm</welcome-file>
        <welcome-file>index.jsp</welcome-file>
        <welcome-file>login.jsp</welcome-file>
        <welcome-file>default.html</welcome-file>
        <welcome-file>default.htm</welcome-file>
        <welcome-file>default.jsp</welcome-file>
    </welcome-file-list>
</web-app>
```

styles.css

```
body {
  font-family: Arial;
  font-size: 10px;
}

h1 {
  font-size: 15px;
}

h2 {
  font-size: 12px;
}

h3 {
  font-size: 11px;
}

a {
  color: blue;
  font-style: italic;
  font-weight: normal;
}

a:hover {
  font-weight: bold;
}
```

foorter.jsp

```
<%@page import="net.etfbl.ip.lab06.beans.UserBean"%>
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>

<br />
    Prijavljeni korisnik: &nbsp;
<%=((UserBean)(session.getAttribute("userBean"))).getUsername() %><br />
Trenutno vrijeme: &nbsp;
<%=new java.util.Date() %>
```

header.jsp

```
<h1>ETF Message Board</h1>
<a href="logout.jsp">Odjava sa sistema</a>
<hr />
```

login.jsp

```
<%@page import="net.etfbl.ip.lab06.beans.UserBean"%>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<jsp:useBean id="userBean" class="net.etfbl.ip.lab06.beans.UserBean"
    scope="session"></jsp:useBean>
<jsp:useBean id="userManager"
    class="net.etfbl.ip.lab06.service.UserManager" scope="application"></jsp:useBean>
<jsp:setProperty property="username" name="userBean" param="username" />
<jsp:setProperty property="password" name="userBean" param="password" />

<!DOCTYPE html>
<%
    if (request.getParameter("submit") != null) {
        UserBean u = userManager.loginUser(userBean.getUsername(), userBean.getPassword());
        if (u != null) {
            userBean.setFirstName(u.getFirstName());
            userBean.setLastName(u.getLastName());
            userBean.setLoggedIn(true);
            session.setAttribute("notification", "");
            response.sendRedirect("messages.jsp");
        } else {
            session.setAttribute("notification", "Unijeli ste neispravno korisni&#269;ko ime ili lozinku.");
            userBean.setLoggedIn(false);
        }
    } else {
        session.setAttribute("notification", "");
    }
%>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>ETF Message Board</title>
<link href="styles/style.css" type="text/css" rel="stylesheet">
</head>
<body>
<h1>ETF Message Board</h1>
<h2>Prijava na sistem</h2>
<form method="POST" action="Login.jsp">
    Korisni&#269;ko ime<br /> <input type="text" name="username"
        id="username" /><br /> Lozinka <br /> <input type="password"
        name="password" id="password" /><br /> <input type="submit"
        value="Prijava me" name="submit" /><br />
    <h3><%=session.getAttribute("notification").toString()%></h3>
    <br /> <a href="registration.jsp">Kreiraj novi nalog &gt;&gt;&gt;</a>
</form>
</body>
</html>
```


logout.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%
    session.invalidate();
    response.sendRedirect("login.jsp");
%>
<!DOCTYPE html>
<html>
<head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>Odjava sa sistema</title>
</head>
<body>

</body>
</html>
```

messages.jsp

```
<%@page import="net.etfbl.ip.Lab06.beans.MessageBean"%>
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<jsp:useBean id="messages" class="net.etfbl.ip.Lab06.service.MessageManager" scope="application"></jsp:useBean>
<jsp:useBean id="userBean" class="net.etfbl.ip.Lab06.beans.UserBean" scope="session"></jsp:useBean>
<%
    if(!(userBean.isLoggedIn())) response.sendRedirect("login.jsp");
%>
<!DOCTYPE html>
<html>
<head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <link href="styles/style.css" type="text/css" rel="stylesheet">
    <title>Poruke</title>
</head>
<body>
    <%@include file="WEB-INF/header.jsp" %>

    <br />
    <a href="new_message.jsp">Kreiraj novu poruku &gt;&gt;&gt;</a>
    <%
        for(MessageBean mb:messages.getMessages()) {
            out.println("<br />Korisnik ime: " + mb.getUser() + "<br />");
            out.println("Vrijeme kreiranja poruke: " + mb.getCreateTime() + "<br />");
            out.println("Adresa klijenta: " + mb.getIPAddress() + "<br />");
            out.println("Tekst poruke: " + mb.getText());
            out.println("<br />" + "<br />");
        }
    %>

    <%@include file="WEB-INF/footer.jsp" %>

</body>
</html>
```

new_message.jsp

```
<%@page import="java.util.Date"%>
<%@page import="java.text.SimpleDateFormat"%>
<%@page import="net.etfbl.ip.Lab06.beans.MessageBean"%>
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>

<jsp:useBean id="messages" class="net.etfbl.ip.Lab06.service.MessageManager" scope="application"></jsp:useBean>
<jsp:useBean id="userBean" class="net.etfbl.ip.Lab06.beans.UserBean" scope="session"></jsp:useBean>
<jsp:useBean id="newMessage" class="net.etfbl.ip.Lab06.beans.MessageBean" scope="request"></jsp:useBean>
<jsp:setProperty property="text" name="newMessage" param="text" />
=> <%
    if(!(userBean.isLoggedIn())) response.sendRedirect("login.jsp");
%>
<!DOCTYPE html>
=> <%
    if(request.getParameter("submit")!=null) {
        newMessage.setIPAddress(request.getRemoteAddr());
        newMessage.setCreateTime(new SimpleDateFormat("dd.MM.yyyy. HH:mm").format(new Date()));
        newMessage.setUser(userBean.getLastName() + " " + userBean.getFirstName() + " (" + userBean.getUsername() + ")");
        messages.getMessages().add(newMessage);
        session.setAttribute("resultMessage", "Poruka kreirana.");
    }
    else {
        session.setAttribute("resultMessage", "");
    }
%>
=> <html>
=> <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <link href="styles/style.css" type="text/css" rel="stylesheet">
    <title>Nova poruka</title>
=> </head>
=> <body>
    <%@include file="WEB-INF/header.jsp" %>

    <form method="POST" action="new_message.jsp">
        Tekst nove poruke: <br />
        <input type="text" name="text" id="text" /> <br />
        <input type="submit" value="Kreiraj poruku" name="submit" /><br />
        <h3><%=session.getAttribute("resultMessage").toString() %></h3> <br />
        <a href="messages.jsp">Prezled poruka &gt;&gt;&gt;</a>
    </form>

    <%@include file="WEB-INF/footer.jsp" %>

    </body>
</html>
```

registration.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<jsp:useBean id="newUser" class="net.etfbl.ip.lab06.beans.UserBean" scope="request"></jsp:useBean>
<jsp:useBean id="userManager" class="net.etfbl.ip.lab06.service.UserManager" scope="application"></jsp:useBean>
<jsp:setProperty property="username" name="newUser" param="username" />
<jsp:setProperty property="password" name="newUser" param="password" />
<jsp:setProperty property="lastName" name="newUser" param="lastName" />
<jsp:setProperty property="firstName" name="newUser" param="firstName" />
<!DOCTYPE html>
<%
    if(request.getParameter("submit")!=null) {
        if("".equals(newUser.getUsername().trim()) || "".equals(newUser.getPassword().trim())
            || "".equals(newUser.getLastName()) || "".equals(newUser.getFirstName())) {
            session.setAttribute("notification", "Morate popuniti sva polja.");
        }
        else {
            if(userManager.registerUser(newUser)) session.setAttribute("notification", "Nalog kreiran.");
            else session.setAttribute("notification", "Uneseno korisni&#269;ko ime je zauzeto.");
        }
    }
    else {
        session.setAttribute("notification", "");
    }
%>
<html>
<head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <link href="styles/style.css" type="text/css" rel="stylesheet">
    <title>Kreiranje novog naloga</title>
</head>
<body>
    <h1>ETF Message Board</h1>
    <h2>Registracija</h2>
    <form method="POST" action="registration.jsp">
        Korisni&#269;ko ime<br />
        <input type="text" name="username" id="username" /><br />
        Lozinka <br />
        <input type="password" name="password" id="password" /><br />
        Prezime <br />
        <input type="text" name="lastName" id="lastName" /><br />
        Ime <br />
        <input type="text" name="firstName" id="firstName" /><br />
        <input type="submit" value="Registruj nalog" name="submit" /><br />
        <h3><%=session.getAttribute("notification").toString() %></h3> <br />
        <a href="Login.jsp">Prijava na sistem &gt;&gt;&gt;</a>
    </form>
</body>
</html>
```

Изглед

ETF Message Board
Registracija
Korisničko ime

Lozinka

Prezime

Ime

[Prijava na sistem >>>](#)

Додавање

ETF Message Board
Registracija
Korisničko ime

Lozinka

Prezime

Ime

Nalog kreiran.
[Prijava na sistem >>>](#)

Након успјешног додавања корисника

ETF Message Board
Registracija
Korisničko ime

Lozinka

Prezime

Ime

Nalog kreiran.
[Prijava na sistem >>>](#)

Још један корисник

ETF Message Board
Registracija
Korisničko ime

Lozinka

Prezime

Ime

Uneseno korisničko ime je zauzeto.
[Prijava na sistem >>>](#)

Ако је корисничко име заузето

ETF Message Board

Prijava na sistem

Korisničko ime

Lozinka

[Kreiraj novi nalog >>>](#)

Пријавна форма

ETF Message Board

Prijava na sistem

Korisničko ime

Lozinka

Unijeli ste neispravno korisničko ime ili lozinku.

[Kreiraj novi nalog >>>](#)

Рекација-резултат на погрешне пријаве, када корисник не постоји

ETF Message Board

Prijava na sistem

Korisničko ime

Lozinka

Unijeli ste neispravno korisničko ime ili lozinku.

[Kreiraj novi nalog >>>](#)

Хоћемо да се пријавимо са правим корисничким именом, које је раније регистровано

ETF Message Board

[Odjava sa sistema](#)

[Kreiraj novu poruku >>>](#)

Prijavljeni korisnik: marko

Trenutno vrijeme: Sun Jul 18 11:20:43 CEST 2021

И имамо следећу ситуацију са могућношћу одјаве и пријаве
Одјава функционише директно, а у разматрању су поруке

ETF Message Board

[Odjava sa sistema](#)

Tekst nove poruke:

[Pregled poruka >>>](#)

Prijavljeni korisnik: marko

Trenutno vrijeme: Sun Jul 18 11:28:22 CEST 2021

Креирање поруке

ETF Message Board

[Odjava sa sistema](#)

Tekst nove poruke:

[Pregled poruka >>>](#)

Prijavljeni korisnik: marko

Trenutno vrijeme: Sun Jul 18 11:28:22 CEST 2021

Још једна порука

ETF Message Board
[Odjava sa sistema](#)

Tekst nove poruke:

Poruka kreirana.

[Pregled poruka >>>](#)

Prijavljeni korisnik: marko
Trenutno vrijeme: Sun Jul 18 11:31:02 CEST 2021

И још једна

ETF Message Board

[Odjava sa sistema](#)

[Kreiraj novu poruku >>>](#)

Korisničko ime: Marko Markovic (marko)
Vrijeme kreiranja poruke: 18.07.2021. 11:28
Adresa klijenta: 127.0.0.1
Tekst poruke: My first message

Korisničko ime: Marko Markovic (marko)
Vrijeme kreiranja poruke: 18.07.2021. 11:29
Adresa klijenta: 127.0.0.1
Tekst poruke: My second message

Korisničko ime: Marko Markovic (marko)
Vrijeme kreiranja poruke: 18.07.2021. 11:31
Adresa klijenta: 127.0.0.1
Tekst poruke: My third message

Prijavljeni korisnik: marko
Trenutno vrijeme: Sun Jul 18 11:31:51 CEST 2021

И сада се се то може прегледати, па то је то једна комплентно функционална апликација за поруке за примјер и ошти код у технологији Java / JSP.