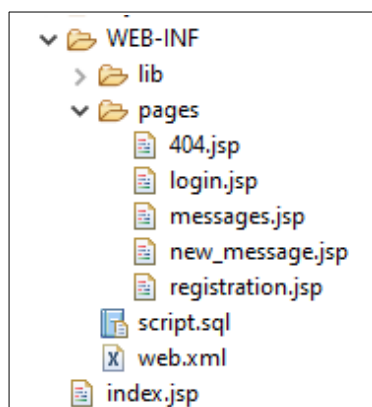
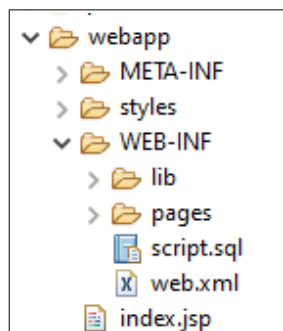
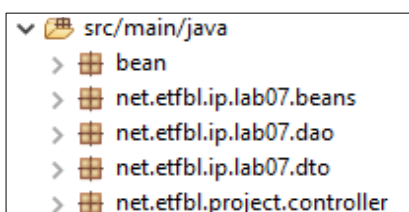
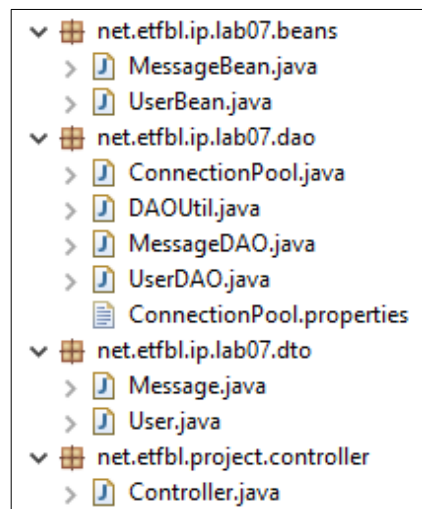
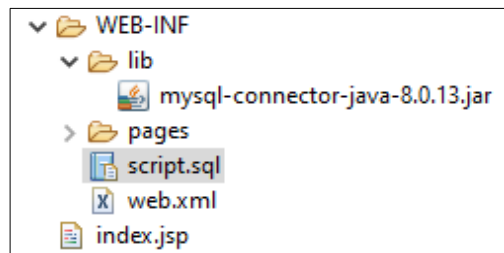


Линкови

[index.jsp](#)
[META-INF\MANIFEST.MF](#)
[styles\style.css](#)
[WEB-INF\lib\mysql-connector-java-8.0.13.jar](#)
[WEB-INF\pages\404.jsp](#)
[WEB-INF\pages\login.jsp](#)
[WEB-INF\pages\messages.jsp](#)
[WEB-INF\pages\new_message.jsp](#)
[WEB-INF\pages\registration.jsp](#)
[WEB-INF\script.sql](#)
[WEB-INF\web.xml](#)

Пребројано је 11 ставки.





SCRIPT.SQL

```
create schema etf_lab07;
use etf_lab07;

create table user (
    id int auto_increment primary key,
    username varchar(50) not null,
    password varchar(50) not null,
    first_name varchar(50) not null,
    last_name varchar(50) not null
);

create table message (
    id int auto_increment primary key,
    text varchar(50) not null,
    user varchar(50) not null,
    create_time varchar(50) not null,
    ip_address varchar(50) not null
);
```

MESSAGE.JAVA

```
1 package net.etfbl.ip.lab07.dto;
2
3 import java.io.Serializable;
4
5 public class Message implements Serializable {
6
7     private static final long serialVersionUID = 1L;
8     private String text;
9     private String user;
10    private String createTime;
11    private String IPAddress;
12    private int id;
13
14    public Message(String text) {
15        super();
16        this.text = text;
17    }
18
19    public Message(String text, String user, String createTime, String iPAddress, int id) {
20        super();
21        this.text = text;
22        this.user = user;
23        this.createTime = createTime;
24        IPAddress = iPAddress;
25        this.id = id;
26    }
27
28    public int getId() {
29        return id;
30    }
31
32    public void setId(int id) {
33        this.id = id;
34    }
35
36    public String getText() {
37        return text;
38    }
39
40    public void setText(String text) {
41        this.text = text;
42    }
```

```
--
44 public String getUser() {
45     return user;
46 }
47
48 public void setUser(String user) {
49     this.user = user;
50 }
51
52 public String getCreateTime() {
53     return createTime;
54 }
55
56 public void setCreateTime(String createTime) {
57     this.createTime = createTime;
58 }
59
60 public String getIPAddress() {
61     return IPAddress;
62 }
63
64 public void setIPAddress(String ipAddress) {
65     IPAddress = ipAddress;
66 }
67
68 }
```

USER.JAVA

```
1 package net.etfbl.ip.lab07.dto;
2
3 import java.io.Serializable;
4
5 public class User implements Serializable {
6
7     private static final long serialVersionUID = 1L;
8     private String username;
9     private String password;
10    private String lastName;
11    private String firstName;
12    private int id;
13
14    public User() {}
15
16    public User(int id, String username, String password, String lastName, String firstName) {
17        super();
18        this.username = username;
19        this.password = password;
20        this.lastName = lastName;
21        this.firstName = firstName;
22        this.id = id;
23    }
24
25    public int getId() {
26        return id;
27    }
28
29    public void setId(int id) {
30        this.id = id;
31    }
32
33    public String getUsername() {
34        return username;
35    }
36
37    public void setUsername(String username) {
38        this.username = username;
39    }
40}
```

```

41 public String getPassword() {
42     return password;
43 }
44
45 public void setPassword(String password) {
46     this.password = password;
47 }
48
49 public String getLastName() {
50     return lastName;
51 }
52
53 public void setLastName(String lastName) {
54     this.lastName = lastName;
55 }
56
57 public String getFirstName() {
58     return firstName;
59 }
60
61 public void setFirstName(String firstName) {
62     this.firstName = firstName;
63 }
64
65 @Override
66 public int hashCode() {
67     final int prime = 31;
68     int result = 1;
69     result = prime * result + ((username == null) ? 0 : username.hashCode());
70     return result;
71 }

```

```

73 @Override
74 public boolean equals(Object obj) {
75     if (this == obj)
76         return true;
77     if (obj == null)
78         return false;
79     if (getClass() != obj.getClass())
80         return false;
81     User other = (User) obj;
82     if (username == null) {
83         if (other.username != null)
84             return false;
85     } else if (!username.equals(other.username))
86         return false;
87     return true;
88 }
89
90
91 }

```

CONNECTION_POOL.PROPERTIES

```
1 jdbcURL=jdbc:mysql://127.0.0.1:3306/etf_lab07?useUnicode=true&useJDBCCompliantTimezoneShift=true&useLegacyDatetimeCode=false&serverTimezone=UTC
2 username=root
3 password=root
4 driver=com.mysql.cj.jdbc.Driver
5 preconnectCount=2
6 maxIdleConnections=25
7 maxConnections=25
```

CONNECTION_POOL.JAVA

```
1 package net.etfbl.ip.lab07.dao;
2
3+ import java.sql.*;
4
5
6 public class ConnectionPool {
7
8- public static ConnectionPool getConnectionPool() {
9     return connectionPool;
10 }
11
12 private static ConnectionPool connectionPool;
13
14- static {
15     ResourceBundle bundle =
16         PropertyResourceBundle.getBundle("net.etfbl.ip.lab07.dao.ConnectionPool");
17     String jdbcURL = bundle.getString("jdbcURL");
18     String username = bundle.getString("username");
19     String password = bundle.getString("password");
20     String driver = bundle.getString("driver");
21     int preconnectCount = 0;
22     int maxIdleConnections = 10;
23     int maxConnections = 10;
24     try {
25         Class.forName(driver);
26         preconnectCount = Integer.parseInt(
27             bundle.getString("preconnectCount"));
28         maxIdleConnections = Integer.parseInt(
29             bundle.getString("maxIdleConnections"));
30         maxConnections = Integer.parseInt(
31             bundle.getString("maxConnections"));
32     } catch (Exception ex) {
33         ex.printStackTrace();
34     }
35     try {
36         connectionPool = new ConnectionPool(
37             jdbcURL, username, password,
38             preconnectCount, maxIdleConnections,
39             maxConnections);
40     } catch (Exception ex) {
41         ex.printStackTrace();
42     }
43 }
```

```
45  protected ConnectionPool(String aJdbcURL, String aUsername,  
46      String aPassword, int aPreconnectCount,  
47      int aMaxIdleConnections,  
48      int aMaxConnections)  
49      throws ClassNotFoundException, SQLException {  
50  
51      freeConnections = new Vector<Connection>();  
52      usedConnections = new Vector<Connection>();  
53      jdbcURL = aJdbcURL;  
54      username = aUsername;  
55      password = aPassword;  
56      preconnectCount = aPreconnectCount;  
57      maxIdleConnections = aMaxIdleConnections;  
58      maxConnections = aMaxConnections;  
59  
60      for (int i = 0; i < preconnectCount; i++) {  
61          Connection conn = DriverManager.getConnection(  
62              jdbcURL, username, password);  
63          conn.setAutoCommit(true);  
64          freeConnections.addElement(conn);  
65      }  
66      connectCount = preconnectCount;  
67  }  
68
```



```

69 public synchronized Connection checkOut()
70     throws SQLException {
71
72     Connection conn = null;
73     if (freeConnections.size() > 0) {
74         conn = (Connection)freeConnections.elementAt(0);
75         freeConnections.removeElementAt(0);
76         usedConnections.addElement(conn);
77     } else {
78         if (connectCount < maxConnections) {
79             conn = DriverManager.getConnection(
80                 jdbcURL, username, password);
81             usedConnections.addElement(conn);
82             connectCount++;
83         } else {
84             try {
85                 wait();
86                 conn = (Connection)freeConnections.elementAt(0);
87                 freeConnections.removeElementAt(0);
88                 usedConnections.addElement(conn);
89             } catch (InterruptedException ex) {
90                 ex.printStackTrace();
91             }
92         }
93     }
94     return conn;
95 }
96
97 public synchronized void checkIn(Connection aConn) {
98     if (aConn == null)
99         return;
100     if (usedConnections.removeElement(aConn)) {
101         freeConnections.addElement(aConn);
102         while (freeConnections.size() > maxIdleConnections) {
103             int lastOne = freeConnections.size() - 1;
104             Connection conn = (Connection)
105                 freeConnections.elementAt(lastOne);
106             try { conn.close(); } catch (SQLException ex) { }
107             freeConnections.removeElementAt(lastOne);
108         }
109         notify();
110     }
111 }

```

```

113     private String jdbcURL;
114     private String username;
115     private String password;
116     private int preconnectCount;
117     private int connectCount;
118     private int maxIdleConnections;
119     private int maxConnections;
120     private Vector<Connection> usedConnections;
121     private Vector<Connection> freeConnections;
122
123 }

```

DAO_UTIL.JAVA

```

1  package net.etfbl.ip.lab07.dao;
2
3  import java.sql.*;
4
5  public final class DAOUtil {
6
7      public static PreparedStatement prepareStatement(Connection connection,
8          String sql, boolean returnGeneratedKeys, Object... values)
9          throws SQLException {
10         PreparedStatement preparedStatement = connection.prepareStatement(sql,
11             returnGeneratedKeys ? Statement.RETURN_GENERATED_KEYS
12             : Statement.NO_GENERATED_KEYS);
13         setValues(preparedStatement, values);
14         return preparedStatement;
15     }
16
17     public static void setValues(PreparedStatement preparedStatement,
18         Object... values) throws SQLException {
19         for (int i = 0; i < values.length; i++) {
20             preparedStatement.setObject(i + 1, values[i]);
21         }
22     }
23 }

```

MESSAGE_DAO.JAVA

```
1 package net.etfbl.ip.lab07.dao;
2
3 import java.sql.Connection;
4
5 public class MessageDAO {
6     private static ConnectionPool connectionPool = ConnectionPool.getConnectionPool();
7     private static final String SQL_SELECT_ALL = "SELECT * FROM message";
8     private static final String SQL_INSERT = "INSERT INTO message (text, user, ip_address, create_time) VALUES (?, ?, ?, ?)";
9
10    public static ArrayList<Message> selectAll() {
11        ArrayList<Message> retVal = new ArrayList<Message>();
12        Connection connection = null;
13        ResultSet rs = null;
14        Object values[] = {};
15        try {
16            connection = connectionPool.checkOut();
17            PreparedStatement pstmt = DAOUtil.prepareStatement(connection, SQL_SELECT_ALL, false, values);
18            rs = pstmt.executeQuery();
19            while (rs.next()) {
20                retVal.add(new Message(rs.getString("text"), rs.getString("user"), rs.getString("create_time"),
21                    rs.getString("ip_address"), rs.getInt("id")));
22            }
23            pstmt.close();
24        } catch (SQLException exp) {
25            exp.printStackTrace();
26        } finally {
27            connectionPool.checkIn(connection);
28        }
29        return retVal;
30    }
31}
```

```
32 public static boolean insert(Message message) {
33     boolean result = false;
34     Connection connection = null;
35     ResultSet generatedKeys = null;
36     Object values[] = { message.getText(), message.getUser(), message.getIPAddress(), message.getCreateTime() };
37     try {
38         connection = connectionPool.checkOut();
39         PreparedStatement pstmt = DAOUtil.prepareStatement(connection, SQL_INSERT, true, values);
40         pstmt.executeUpdate();
41         generatedKeys = pstmt.getGeneratedKeys();
42         if (pstmt.getUpdateCount() > 0) {
43             result = true;
44         }
45         if (generatedKeys.next())
46             message.setId(generatedKeys.getInt(1));
47         pstmt.close();
48     } catch (SQLException e) {
49         e.printStackTrace();
50     } finally {
51         connectionPool.checkIn(connection);
52     }
53     return result;
54 }
55 }
```

USER_DAO.JAVA

```
1 package net.etfb1.ip.lab07.dao;
2
3 import java.sql.Connection;
4
5
6
7
8
9
10
11 public class UserDao {
12     private static ConnectionPool connectionPool = ConnectionPool.getConnectionPool();
13     private static final String SQL_SELECT_BY_USERNAME_AND_PASSWORD = "SELECT * FROM user WHERE username=? AND password=?";
14     private static final String SQL_IS_USERNAME_USED = "SELECT * FROM user WHERE username = ?";
15     private static final String SQL_INSERT = "INSERT INTO user (username, password, first_name, last_name) VALUES (?, ?, ?, ?)";
16
17     public static User selectByUsernameAndPassword(String username, String password){
18         User user = null;
19         Connection connection = null;
20         ResultSet rs = null;
21         Object values[] = {username, password};
22         try {
23             connection = connectionPool.checkOut();
24             PreparedStatement pstmt = DAOUtil.prepareStatement(connection,
25                 SQL_SELECT_BY_USERNAME_AND_PASSWORD, false, values);
26             rs = pstmt.executeQuery();
27             if (rs.next()){
28                 user = new User(rs.getInt("id"), rs.getString("username"), rs.getString("password"), rs.getString("last_name"), rs.getString("first_name"));
29             }
30             pstmt.close();
31         } catch (SQLException exp) {
32             exp.printStackTrace();
33         } finally {
34             connectionPool.checkIn(connection);
35         }
36         return user;
37     }
38 }
```

```

39 public static boolean isUserNameUsed(String username) {
40     boolean result = true;
41     Connection connection = null;
42     ResultSet rs = null;
43     Object values[] = {username};
44     try {
45         connection = connectionPool.checkOut();
46         PreparedStatement pstmt = DAOUtil.prepareStatement(connection,
47             SQL_IS_USERNAME_USED, false, values);
48         rs = pstmt.executeQuery();
49         if (rs.next()){
50             result = false;
51         }
52         pstmt.close();
53     } catch (SQLException exp) {
54         exp.printStackTrace();
55     } finally {
56         connectionPool.checkIn(connection);
57     }
58     return result;
59 }
60
61 public static boolean insert(User user) {
62     boolean result = false;
63     Connection connection = null;
64     ResultSet generatedKeys = null;
65     Object values[] = { user.getUsername(), user.getPassword(), user.getFirstName(), user.getLastName() };
66     try {
67         connection = connectionPool.checkOut();
68         PreparedStatement pstmt = DAOUtil.prepareStatement(connection, SQL_INSERT, true, values);
69         pstmt.executeUpdate();
70         generatedKeys = pstmt.getGeneratedKeys();
71         if(pstmt.getUpdateCount()>0) {
72             result = true;
73         }
74         if (generatedKeys.next())
75             user.setId(generatedKeys.getInt(1));
76         pstmt.close();
77     } catch (SQLException e) {
78         e.printStackTrace();
79     } finally {
80         connectionPool.checkIn(connection);
81     }
82     return result;
83 }
84
85 }
86

```

MESSAGE_BEAN.JAVA

```
1 package net.etfbl.ip.lab07.beans;
2
3+ import java.io.Serializable;
4
5
6
7
8
9 public class MessageBean implements Serializable {
10
11     private static final long serialVersionUID = 1L;
12
13- public boolean add(Message message) {
14     return MessageDAO.insert(message);
15 }
16
17- public ArrayList<Message> getAll() {
18     return MessageDAO.selectAll();
19 }
20
21 }
22
```

USER_BEAN.JAVA

```
1 package net.etfbl.ip.lab07.beans;
2
3 import java.io.Serializable;
4
5
6
7
8 public class UserBean implements Serializable {
9
10     private static final long serialVersionUID = 1L;
11     private User user = new User();
12     private boolean isLoggedIn = false;
13
14     public boolean login(String username, String password) {
15         if ((user = UserDAO.selectByUsernameAndPassword(username, password)) != null) {
16             isLoggedIn = true;
17             return true;
18         }
19         return false;
20     }
21
22     public boolean isLoggedIn() {
23         return isLoggedIn;
24     }
25
26     public void logout() {
27         user = new User();
28         isLoggedIn = false;
29     }
30
31     public User getUser() {
32         return user;
33     }
34
35     public boolean isUserNameAllowed(String username) {
36         return UserDAO.isUserNameUsed(username);
37     }
38
39     public boolean add(User user) {
40         return UserDAO.insert(user);
41     }
42
43 }
44
```

STYLES.CSS

```
1 body {
2     font-family: Arial;
3     font-size: 10px;
4 }
5
6 h1 {
7     font-size: 15px;
8 }
9
10 h2 {
11     font-size: 12px;
12 }
13
14 h3 {
15     font-size: 11px;
16 }
17
18 a {
19     color: blue;
20     font-style: italic;
21     font-weight: normal;
22 }
23
24 a:hover {
25     font-weight: bold;
26 }
```

WEB.XML

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3     xmlns="http://java.sun.com/xml/ns/javaee" xmlns:web="http://java.sun.com/xml/ns/javaee"
4     xsi:schemaLocation="http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd"
5     id="WebApp_ID" version="2.5">
6     <display-name>LAB_07</display-name>
7     <welcome-file-list>
8         <welcome-file>Controller</welcome-file>
9         <welcome-file>index.html</welcome-file>
10        <welcome-file>index.htm</welcome-file>
11        <welcome-file>index.jsp</welcome-file>
12        <welcome-file>default.html</welcome-file>
13        <welcome-file>default.htm</welcome-file>
14        <welcome-file>default.jsp</welcome-file>
15    </welcome-file-list>
16 </web-app>
```


404.jsp

```
1 <%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
2
3 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
4 <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
5 <head>
6     <title>ETF BL</title>
7     <meta http-equiv="content-type" content="text/html; charset=utf-8" />
8     <link rel="stylesheet" type="text/css" href="css/bluebliss.css" />
9 </head>
10 <body>
11     <p>Stranica nije pronadjena</p>
12 </body>
13 </html>
```

LOGIN.JSP

```
1 <%@page import="net.etfbl.ip.lab07.beans.UserBean"%>
2 <%@ page language="java" contentType="text/html; charset=UTF-8"
3     pageEncoding="UTF-8"%>
4 <!DOCTYPE html>
5 <html>
6 <head>
7     <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
8     <title>ETF Message Board</title>
9     <link href="styles/style.css" type="text/css" rel="stylesheet">
10 </head>
11 <body>
12     <h1>ETF Message Board</h1>
13     <h2>Prijava na sistem</h2>
14 <form method="POST" action="?action=Login">
15     <div>
16         <input type="text" name="username" id="username" />
17         <input type="password" name="password" id="password" />
18         <input type="submit" value="Prijava" />
19     </div>
20     <div>
21         <input type="checkbox" /> <input type="checkbox" />
22     </div>
23 </form>
```

MESSAGES.JSP

```
1 <%@page import="net.etfbl.ip.lab07.dto.Message"%>
2 <%@page import="net.etfbl.ip.lab07.beans.MessageBean"%>
3 <%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
4 <jsp:useBean id="messageBean" type="net.etfbl.ip.lab07.beans.MessageBean" scope="session"/>
5
6 <!DOCTYPE html>
7 <html>
8   <head>
9     <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
10    <link href="styles/style.css" type="text/css" rel="stylesheet">
11    <title>Poruke</title>
12  </head>
13  <body>
14    <h1>ETF Message Board</h1>
15    <a href="?action=Logout">Odjava sa sistema</a>
16    <hr />
17    <a href="?action=newMessage">Kreiraj novu poruku &gt;&gt;&gt;</a>
18    <%
19      for(Message mb:messageBean.getAll()) {
20        out.println("<br />Korisni&#269;ko ime: " + mb.getUser() + "<br />");
21        out.println("Vrijeme kreiranja poruke: " + mb.getCreateTime() + "<br />");
22        out.println("Adresa klijenta: " + mb.getIPAddress() + "<br />");
23        out.println("Tekst poruke: " + mb.getText());
24        out.println("<hr />" + "<br />");
25      }
26    %>
27  </body>
28 </html>
```

NEW_MESSAGE.JSP

```
1 <%@ page language="java" contentType="text/html; charset=UTF-8"
2   pageEncoding="UTF-8"%>
3 <!DOCTYPE html>
4 <html>
5   <head>
6     <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
7     <link href="styles/style.css" type="text/css" rel="stylesheet">
8     <title>Nova poruka</title>
9   </head>
10  <body>
11    <h1>ETF Message Board</h1>
12    <a href="?action=Logout">Odjava sa sistema</a>
13    <hr />
14    <form method="POST" action="?action=newMessage">
15      Tekst nove poruke: <br /> <input type="text" name="text" id="text" />
16      <br /> <input type="submit" value="Kreiraj poruku" name="submit" /><br />
17      <h3><%=session.getAttribute("notification").toString()%></h3>
18      <br /> <a href="?action=messages">Pregled poruka &gt;&gt;&gt;</a>
19    </form>
20
21  </body>
22 </html>
```

REGISTRATOION.JSP

```
1 <%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
2 <!DOCTYPE html>
3 <html>
4   <head>
5     <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
6     <link href="styles/style.css" type="text/css" rel="stylesheet">
7     <title>Kreiranje novog naloga</title>
8   </head>
9   <body>
10    <h1>ETF Message Board</h1>
11    <h2>Registracija</h2>
12    <form method="POST" action="?action=registration">
13      Korisni&#269;ko ime<br />
14      <input type="text" name="username" id="username" /><br />
15      Lozinka <br />
16      <input type="password" name="password" id="password" /><br />
17      Prezime <br />
18      <input type="text" name="lastName" id="lastName" /><br />
19      Ime <br />
20      <input type="text" name="firstName" id="firstName" /><br />
21
22      <input type="submit" value="Registruj nalog" name="submit" /><br />
23      <h3><%=session.getAttribute("notification").toString() %></h3> <br />
24      <a href="?action=login">Prijava na sistem &gt;&gt;&gt;</a>
25    </form>
26  </body>
27 </html>
```

LOGIN – DESIGN

ETF Message Board
Prijava na sistem
Korisničko ime

Lozinka

[Kreiraj novi nalog >>>](#)

REGISTER – DESIGN

ETF Message Board
Registracija
Korisničko ime

Lozinka

Prezime

Ime

[Prijava na sistem >>>](#)

MESSAGES – LIST

ETF Message Board
[Odjava sa sistema](#)
[Kreiraj novu poruku >>>](#)
Korisničko ime: Marko Markovic (marko)
Vrijeme kreiranja poruke: 01.08.2021. 10:18
Adresa klijenta: 127.0.0.1
Tekst poruke: Poruka A

Korisničko ime: Marko Markovic (marko)
Vrijeme kreiranja poruke: 01.08.2021. 10:19
Adresa klijenta: 127.0.0.1
Tekst poruke: Poruka B

NEW – MESSAGE – DESIGN

ETF Message Board

[Odjava sa sistema](#)

Tekst nove poruke:

Kreiraj poruku

[Pregled poruka >>>](#)