

Projekt

On-line obchod s DVD-čkami. Program obsahuje katalog Dvdečiek. Taktiež rôzne druhy dvdečiek, ktoré obsahuje trieda DVD. Zákazníci si môžu objednať DVDčka. Hodnoty sú načítavané z databázy nove_dvd. Taktiež obsahuje aj evidenciu používateľov. Ich mená a hesla. Evidujú sa objednávky užívateľov. Môžeme do databázy vkladať nové druhy DVDčiek a taktiež vymazať tie, ktoré sa už nepredávajú. Zoznam nových DVD, vymazať z on-line stránky stare DVD, pridávať nové DVD na predaj a upravovať zoznam DVD.

Triedy kde su infomácie o DVD, Používateľoch, Katalog
package dvd.data;

```
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;

import javax.sql.DataSource;

public class DataAccessObject
{

    private static DataSource dataSource;
    private static Object idLock = new Object();

    public static void setDataSource(DataSource dataSource)
    {
        DataAccessObject.dataSource = dataSource;
    }

    protected static Connection getConnection()
    {
        try
        {
            return dataSource.getConnection();
        } catch (SQLException e)
        {
            throw new RuntimeException(e);
        }
    }

    protected static void close(Statement statement, Connection connection)
    {
        close(null, statement, connection);
    }

    protected static void close(ResultSet rs, Statement statement,
                                Connection connection)
    {
        try
        {
            if (rs != null)
                rs.close();
            if (statement != null)
                statement.close();
            if (connection != null)
                connection.close();
        } catch (SQLException e)
        {
            throw new RuntimeException(e);
        }
    }
}
```

```

    }
}

protected static Long getUniquelId()
{
    ResultSet rs = null;
    PreparedStatement statement = null;
    Connection connection = null;
    try
    {
        connection = getConnection();
        synchronized (idLock)
        {
            statement = connection
                .prepareStatement("select next_value from objednanie");
            rs = statement.executeQuery();
            rs.first();
            long id = rs.getLong(1);
            statement.close();
            statement = connection
                .prepareStatement("update objednanie set next_value = ?");
            statement.setLong(1, id + 1);
            statement.executeUpdate();
            statement.close();
            return new Long(id);
        }
    } catch (SQLException e)
    {
        throw new RuntimeException(e);
    } finally
    {
        close(rs, statement, connection);
    }
}
}

```

```
package dvd.data;
```

```
public class DVD
```

```

{
    private String itemID;
    private String popis;
    private double cena;

    public DVD(String itemID, String popis, double cena) {
        setItemID(itemID);
        setPopis(popis);
        setCena(cena);
    }

    public String getItemID() {
        return (itemID);
    }
    protected void setItemID(String itemID) {
        this.itemID = itemID;
    }
    public String getPopis()
    {
        return(popis);
    }
}

```

```

    protected void setPopis(String popis) {
        this.popis = popis; }

    public double getCena() {
        return (cena);}
    protected void setCena(double cena) {
        this.cena = cena;
    }
}

```

```
package dvd.data;
```

```

public class DVDOrder
{
    private DVD item;
    private int PocetItems;
    public DVDOrder(DVD item) {
        setItem(item);
        setPocetItems(1);
    }
    public DVD getItem() {
        return (item); }
    protected void setItem(DVD item ) {
        this.item = item;
    }
    public String getItemID(){
        return(getItem().getItemID());}
    public String getPopis() {
        return(getItem().getPopis());
    }

    public double getUnitCena(){
        return(getItem().getCena()); }
    public int getPocetItems() {
        return(PocetItems);}
    public void setPocetItems(int n){
        this.PocetItems = n;}
    public void incrementPocetItems() {
        setPocetItems(getPocetItems() + 1); }
    public void cancelOrder() {
        setPocetItems(0);}
    public double getTotalCena() {
        return(getPocetItems() * getUnitCena());
    }
}

```

```
package dvd.data;
```

```

import java.io.IOException;
import java.net.URL;

import javax.servlet.RequestDispatcher;
import javax.servlet.ServletConfig;
import javax.servlet.ServletContext;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import org.apache.log4j.Logger;

```

```

import com.sun.syndication.feed.synd.SyndFeed;
import com.sun.syndication.io.FeedException;
import com.sun.syndication.io.SyndFeedInput;
import com.sun.syndication.io.XmlReader;

public class HomeServlet extends HttpServlet
{
    private Logger logger = Logger.getLogger(this.getClass());
    private RequestDispatcher homeJsp;

    @Override
    public void init(ServletConfig config) throws ServletException
    {
        ServletContext context = config.getServletContext();
        homeJsp = context.getRequestDispatcher("/web/WEB-INF/home.jsp");
    }

    @Override
    protected void doGet(HttpServletRequest req, HttpServletResponse resp)
        throws ServletException, IOException
    {
        logger.debug("Odpoved");
        URL url = new URL("http://rss.news.yahoo.com/rss/tech");
        SyndFeedInput syndFeedInput = new SyndFeedInput();
        SyndFeed syndFeed = null;
        XmlReader xmlReader = new XmlReader(url);
        try
        {
            syndFeed = syndFeedInput.build(xmlReader);
        } catch (IllegalArgumentException e)
        {
            logger.error("", e);
        } catch (FeedException e)
        {
            logger.error("", e);
        }

        logger.debug("Vratit sa spet na home.jsp");
        req.setAttribute("syndFeed", syndFeed);
        homeJsp.forward(req, resp);
    }
}

```

```

package dvd.data;

```

```

public class Katalog
{
    private static DVD[] items;
    public static DVD getItem(String itemID) {
        DVD item;
        if(itemID == null) {
            return(null); }
        for(int i=0; i<items.length; i++){
            item = items(i);
            if(itemID.equals(item.getItemID())) {
                return(item);
            }
        }
    }
}

```

```

        return (null);
    }
    private static DVD items(int i)
    {
        return null;
    }
}

```

```

package dvd.data;

import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.LinkedList;
import java.util.List;

public class NoveDVD_DAO extends DataAccessObject
{
    private NoveDVD read(ResultSet rs) throws SQLException
    {
        Long id = new Long(rs.getLong("id"));
        String titul = rs.getString("titul");
        String nazov = rs.getString("nazov");
        NoveDVD newsItem = new NoveDVD();
        newsItem.setId(id);
        newsItem.setTitul(titul);
        newsItem.setNazov(nazov);
        return newsItem;
    }

    public List<NoveDVD> findAll()
    {
        LinkedList<NoveDVD> newsItems = new LinkedList<NoveDVD>();
        ResultSet rs = null;
        PreparedStatement statement = null;
        Connection connection = null;
        try
        {
            connection = getConnection();
            String sql = "select * from nove_dvd order by id";
            statement = connection.prepareStatement(sql);
            rs = statement.executeQuery();
            while (rs.next())
            {
                NoveDVD newsItem = read(rs);
                newsItems.add(newsItem);
            }
            return newsItems;
        } catch (SQLException e)
        {
            throw new RuntimeException(e);
        } finally
        {
            close(rs, statement, connection);
        }
    }

    public NoveDVD find(Long id)
    {
        ResultSet rs = null;
    }
}

```

```

        PreparedStatement statement = null;
        Connection connection = null;
        try
        {
            connection = getConnection();
            String sql = "select * from nove_dvd where id=?";
            statement = connection.prepareStatement(sql);
            statement.setLong(1, id.longValue());
            rs = statement.executeQuery();
            if (!rs.next())
            {
                return null;
            }
            return read(rs);
        } catch (SQLException e)
        {
            throw new RuntimeException(e);
        } finally
        {
            close(rs, statement, connection);
        }
    }

    public void update(NoveDVD newsItem)
    {
        PreparedStatement statement = null;
        Connection connection = null;
        try
        {
            connection = getConnection();
            String sql = "update nove_dvd set " + "titul=?, nazov=? where
id=?";

            statement = connection.prepareStatement(sql);
            statement.setString(1, newsItem.getTitul());
            statement.setString(2, newsItem.getNazov());
            statement.setLong(3, newsItem.getId().longValue());
            statement.execute();
        } catch (SQLException e)
        {
            throw new RuntimeException(e);
        } finally
        {
            close(statement, connection);
        }
    }

    public void create(NoveDVD newsItem)
    {
        Long id = getUniqueId();
        newsItem.setId(id);
        PreparedStatement statement = null;
        Connection connection = null;
        try
        {
            connection = getConnection();
            String sql = "insert into nove_dvd " + "(id, titul, nazov) "
                + "values (?, ?, ?)";
            statement = connection.prepareStatement(sql);
            statement.setLong(1, id.longValue());

```

```

        statement.setString(2, newsItem.getTitul());
        statement.setString(3, newsItem.getNazov());
        statement.executeUpdate();
    } catch (SQLException e)
    {
        throw new RuntimeException(e);
    } finally
    {
        close(statement, connection);
    }
}
public void delete(NoveDVD newsItem)
{
    PreparedStatement statement = null;
    Connection connection = null;
    try
    {
        connection = getConnection();
        String sql = "delete from nove_dvd where id=?";
        statement = connection.prepareStatement(sql);
        Long id = newsItem.getId();
        statement.setLong(1, id.longValue());
        statement.executeUpdate();
    } catch (SQLException e)
    {
        throw new RuntimeException(e);
    } finally
    {
        close(statement, connection);
    }
}
}

```

```

package dvd.data;

```

```

public class NoveDVD
{
    private Long id;
    private String titul;
    private String nazov;

    public Long getId()
    {
        return id;
    }

    public void setId(Long id)
    {
        this.id = id;
    }

    public String getTitul()
    {
        return titul;
    }

    public void setTitul(String titul)
    {
        this.titul = titul;
    }
}

```

```

    public String getNazov()
    {
        return nazov;
    }

    public void setNazov(String nazov)
    {
        this.nazov = nazov;
    }
}

```

```

package dvd.data;
import java.util.Vector;
public class ShoppingCart
{
    private Vector<DVDOrder> itemsOrdered;
    public ShoppingCart() {
        itemsOrdered = new Vector<DVDOrder> ();
    }
    public Vector<DVDOrder> getItemsOrdered () {
        return(itemsOrdered);
    }
    public synchronized void addItem(String itemID) {
        DVDOrder order;
        for(int i=0; i<itemsOrdered.size(); i++) {
            order = itemsOrdered.elementAt(i);
            if(order.getItemID().equals(itemID)) {
                order.incrementPocetItems();
                return;
            }
        }
        DVDOrder newOrder = new DVDOrder (Katalog.getItem(itemID));
        itemsOrdered.addElement(newOrder);
    }
    public synchronized void setPocetOrdered(String itemID, int numOrdered) {
        DVDOrder order;
        for(int i=0; i<itemsOrdered.size(); i++) {
            order = itemsOrdered.elementAt(i);
            if (order.getItemID().equals(itemID)) {
                if(numOrdered <= 0) {
                    itemsOrdered.removeElementAt(i);
                } else {
                    order.setPocetItems(numOrdered);
                }
                return;
            }
        }
        DVDOrder newOrder = new DVDOrder(Katalog.getItem(itemID));
        itemsOrdered.addElement(newOrder);
    }
}

```

```

package dvd.data;

public class User
{
    private Long id;
    private String username;
    private String password;

    public Long getId()
    {
        return id;
    }

    public void setId(Long id)
    {
        this.id = id;
    }

    public String getPassword()
    {
        return password;
    }

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

    public String getUsername()
    {
        return username;
    }

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

```

```

package dvd.data;

import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.LinkedList;
import java.util.List;

public class UserDao extends DataAccessObject
{
    private static UserDao instance = new UserDao();

    public static UserDao getInstance()
    {
        return instance;
    }

    private User read(ResultSet rs) throws SQLException
    {
        Long id = new Long(rs.getLong("id"));
        String username = rs.getString("username");
    }
}

```

```

        String password = rs.getString("password");
        User user = new User();
        user.setId(id);
        user.setUsername(username);
        user.setPassword(password);
        return user;
    }

    public User find(Long id)
    {
        ResultSet rs = null;
        PreparedStatement statement = null;
        Connection connection = null;
        try
        {
            connection = getConnection();
            String sql = "select * from user where id=?";
            statement = connection.prepareStatement(sql);
            statement.setLong(1, id.longValue());
            rs = statement.executeQuery();
            if (!rs.next())
            {
                return null;
            }
            return read(rs);
        } catch (SQLException e)
        {
            throw new RuntimeException(e);
        } finally
        {
            close(rs, statement, connection);
        }
    }

    public User findByUsername(String username)
    {
        ResultSet rs = null;
        PreparedStatement statement = null;
        Connection connection = null;
        try
        {
            connection = getConnection();
            String sql = "select * from user where username=?";
            statement = connection.prepareStatement(sql);
            statement.setString(1, username);
            rs = statement.executeQuery();
            if (!rs.next())
            {
                return null;
            }
            return read(rs);
        } catch (SQLException e)
        {
            throw new RuntimeException(e);
        } finally
        {
            close(rs, statement, connection);
        }
    }

```

```

public List<User> findAll()
{
    LinkedList<User> users = new LinkedList<User>();
    ResultSet rs = null;
    PreparedStatement statement = null;
    Connection connection = null;
    try
    {
        connection = getConnection();
        String sql = "select * from user order by id";
        statement = connection.prepareStatement(sql);
        rs = statement.executeQuery();
        while (rs.next())
        {
            User user = read(rs);
            users.add(user);
        }
        return users;
    } catch (SQLException e)
    {
        throw new RuntimeException(e);
    } finally
    {
        close(rs, statement, connection);
    }
}

public void update(User user)
{
    PreparedStatement statement = null;
    Connection connection = null;
    try
    {
        connection = getConnection();
        String sql = "update user set " + "password=? where id=?";
        statement = connection.prepareStatement(sql);
        statement.setString(1, user.getPassword());
        statement.setLong(2, user.getId().longValue());
        statement.executeUpdate();
    } catch (SQLException e)
    {
        throw new RuntimeException(e);
    } finally
    {
        close(statement, connection);
    }
}

public void create(User user)
{
    Long id = getUniqueId();
    user.setId(id);
    PreparedStatement statement = null;
    Connection connection = null;
    try
    {
        connection = getConnection();
        String sql = "insert into user " + "(id, username, password) "
        + "values (?, ?, ?)";

```

```

        statement = connection.prepareStatement(sql);
        statement.setLong(1, id.longValue());
        statement.setString(2, user.getUsername());
        statement.setString(3, user.getPassword());
        statement.executeUpdate();
    } catch (SQLException e)
    {
        throw new RuntimeException(e);
    } finally
    {
        close(statement, connection);
    }
}

public void delete(User user)
{
    PreparedStatement statement = null;
    Connection connection = null;
    try
    {
        connection = getConnection();
        String sql = "delete from user where id=?";
        statement = connection.prepareStatement(sql);
        Long id = user.getId();
        statement.setLong(1, id.longValue());
        statement.executeUpdate();
    } catch (SQLException e)
    {
        throw new RuntimeException(e);
    } finally
    {
        close(statement, connection);
    }
}
}

```

Triedy so Servletmi:

```
package dvd.data;
```

```

import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.LinkedList;
import java.util.List;

```

```

public class UserDao extends DataAccessObject
{
    private static UserDao instance = new UserDao();

    public static UserDao getInstance()
    {
        return instance;
    }

    private User read(ResultSet rs) throws SQLException
    {
        Long id = new Long(rs.getLong("id"));
        String username = rs.getString("username");
        String password = rs.getString("password");
        User user = new User();
    }
}

```

```

        user.setId(id);
        user.setUsername(username);
        user.setPassword(password);
        return user;
    }

    public User find(Long id)
    {
        ResultSet rs = null;
        PreparedStatement statement = null;
        Connection connection = null;
        try
        {
            connection = getConnection();
            String sql = "select * from user where id=?";
            statement = connection.prepareStatement(sql);
            statement.setLong(1, id.longValue());
            rs = statement.executeQuery();
            if (!rs.next())
            {
                return null;
            }
            return read(rs);
        } catch (SQLException e)
        {
            throw new RuntimeException(e);
        } finally
        {
            close(rs, statement, connection);
        }
    }

    public User findByUsername(String username)
    {
        ResultSet rs = null;
        PreparedStatement statement = null;
        Connection connection = null;
        try
        {
            connection = getConnection();
            String sql = "select * from user where username=?";
            statement = connection.prepareStatement(sql);
            statement.setString(1, username);
            rs = statement.executeQuery();
            if (!rs.next())
            {
                return null;
            }
            return read(rs);
        } catch (SQLException e)
        {
            throw new RuntimeException(e);
        } finally
        {
            close(rs, statement, connection);
        }
    }

    public List<User> findAll()
    {

```

```

LinkedList<User> users = new LinkedList<User>();
ResultSet rs = null;
PreparedStatement statement = null;
Connection connection = null;
try
{
    connection = getConnection();
    String sql = "select * from user order by id";
    statement = connection.prepareStatement(sql);
    rs = statement.executeQuery();
    while (rs.next())
    {
        User user = read(rs);
        users.add(user);
    }
    return users;
} catch (SQLException e)
{
    throw new RuntimeException(e);
} finally
{
    close(rs, statement, connection);
}
}

public void update(User user)
{
    PreparedStatement statement = null;
    Connection connection = null;
    try
    {
        connection = getConnection();
        String sql = "update user set " + "password=? where id=?";
        statement = connection.prepareStatement(sql);
        statement.setString(1, user.getPassword());
        statement.setLong(2, user.getId().longValue());
        statement.executeUpdate();
    } catch (SQLException e)
    {
        throw new RuntimeException(e);
    } finally
    {
        close(statement, connection);
    }
}

public void create(User user)
{
    Long id = getUniqueId();
    user.setId(id);
    PreparedStatement statement = null;
    Connection connection = null;
    try
    {
        connection = getConnection();
        String sql = "insert into user " + "(id, username, password) "
        + "values (?, ?, ?)";
        statement = connection.prepareStatement(sql);
        statement.setLong(1, id.longValue());

```

```

        statement.setString(2, user.getUsername());
        statement.setString(3, user.getPassword());
        statement.executeUpdate();
    } catch (SQLException e)
    {
        throw new RuntimeException(e);
    } finally
    {
        close(statement, connection);
    }
}

public void delete(User user)
{
    PreparedStatement statement = null;
    Connection connection = null;
    try
    {
        connection = getConnection();
        String sql = "delete from user where id=?";
        statement = connection.prepareStatement(sql);
        Long id = user.getId();
        statement.setLong(1, id.longValue());
        statement.executeUpdate();
    } catch (SQLException e)
    {
        throw new RuntimeException(e);
    } finally
    {
        close(statement, connection);
    }
}
}

```

```
package dvd.online.objednaj.web;
```

```

import javax.naming.Context;
import javax.naming.InitialContext;
import javax.servlet.ServletContext;
import javax.servlet.ServletContextEvent;
import javax.servlet.ServletContextListener;
import javax.sql.DataSource;

```

```
import org.apache.log4j.Logger;
```

```
import dvd.data.DataAccessObject;
```

```

public class Init implements ServletContextListener
{
    private Logger logger = Logger.getLogger(this.getClass());

    @Override
    public void contextDestroyed(ServletContextEvent sce)
    {
    }

    private void contextInitialized2(ServletContext servletContext)
        throws Exception
    {
        InitialContext enc = new InitialContext();
    }
}

```

```

        Context compContext = (Context) enc.lookup("java:comp/env");
        DataSource dataSource = (DataSource) compContext.lookup("datasource");
        DataAccessObject.setDataSource(dataSource);
    }

    @Override
    public void contextInitialized(ServletContextEvent sce)
    {
        ServletContext servletContext = sce.getServletContext();
        try
        {
            contextInitialized2(servletContext);
        } catch (Exception e)
        {
            logger.error("Inicializácia sa nepodarila", e);
            throw new RuntimeException(e);
        }
        logger.debug("Inicializácia je úspešná :).");
    }
}

package dvd.online.objednaj.web;

import java.io.IOException;
import java.io.Writer;
import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;

import javax.servlet.ServletConfig;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import org.apache.log4j.Logger;

import com.sun.syndication.feed.synd.SyndEntry;
import com.sun.syndication.feed.synd.SyndEntryImpl;
import com.sun.syndication.feed.synd.SyndFeed;
import com.sun.syndication.feed.synd.SyndFeedImpl;
import com.sun.syndication.io.FeedException;
import com.sun.syndication.io.SyndFeedOutput;

import dvd.data.NoveDVD;
import dvd.data.NoveDVD_DAO;

public class ObjServlet extends HttpServlet
{
    private Logger logger = Logger.getLogger(this.getClass());

    @Override
    public void init(ServletConfig config) throws ServletException
    {
        logger.debug("init()");
        try
        {
            Class.forName("com.mysql.jdbc.Driver");
        } catch (ClassNotFoundException e)
        {

```



```

        throw new ServletException(e);
    }
}

@Override
protected void doGet(HttpServletRequest req, HttpServletResponse resp)
    throws ServletException, IOException
{
    SyndFeed feed = new SyndFeedImpl();
    feed.setFeedType("rss_2.0");
    feed.setTitle("Harry");
    feed.setLink("http://localhost:8080/MARGETOVA_PROJEKT_PRVA_VERZIA/");
    feed.setDescription("Tu su objednane");
    List<SyndEntry> entries = new ArrayList<SyndEntry>();

    List<NoveDVD> newsItems = new NoveDVD_DAO().findAll();
    Iterator<NoveDVD> it = newsItems.iterator();
    while (it.hasNext())
    {
        NoveDVD newItem = (NoveDVD) it.next();
        String titul = newItem.getTitul();
        String nazov = newItem.getNazov();
        SyndEntry entry = new SyndEntryImpl();
        entry.setTitle(titul);
        entry.setLink(nazov);
        entries.add(entry);

        resp.setContentType("text/xml");

        feed.setEntries(entries);
        Writer writer = resp.getWriter();
        SyndFeedOutput output = new SyndFeedOutput();
        try
        {
            output.output(feed, writer);
        } catch (FeedException e)
        {
            logger.error("", e);
        }
    }
}
}
}

```

```
package dvd.online.objednaj.web;
```

```
import java.io.IOException;
import java.util.Map;
```

```
import javax.servlet.RequestDispatcher;
import javax.servlet.ServletConfig;
import javax.servlet.ServletContext;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
```

```

import org.apache.log4j.Logger;

import dvd.data.NoveDVD;
import dvd.data.NoveDVD_DAO;

public class PridajNoveDVDServlet extends HttpServlet
{
    private Logger logger = Logger.getLogger(this.getClass());
    private RequestDispatcher jsp;

    public void init(ServletConfig config) throws ServletException
    {
        ServletContext context = config.getServletContext();
        jsp = context.getRequestDispatcher("/web/WEB-INF/jsp/uprav-nove-dvd.jsp");
    }

    protected void doGet(HttpServletRequest req, HttpServletResponse resp)
        throws ServletException, IOException
    {
        logger.debug("doGet()");
        jsp.forward(req, resp);
    }

    protected void doPost(HttpServletRequest req, HttpServletResponse resp)
        throws ServletException, IOException
    {
        String cancelButton = req.getParameter("zrusenie - tlacitko");
        if (cancelButton != null)
        {
            logger.debug("Zrusenie");
            resp.sendRedirect("zoznam-nove-dvd");
            return;
        }
        Map<String, String> errors = UpravNoveDVDServlet.validate(req);
        if (!errors.isEmpty())
        {
            logger.debug("Chyba");
            jsp.forward(req, resp);
            return;
        }

        NoveDVD newItem = (NoveDVD) req.getAttribute("newsItem");
        new NoveDVD_DAO().create(newItem);
        resp.sendRedirect("uloz-nove-dvd?id=" + newItem.getId());
    }
}

package dvd.online.objednaj.web;

import java.io.IOException;

import javax.servlet.RequestDispatcher;
import javax.servlet.ServletConfig;
import javax.servlet.ServletContext;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

```

```

import org.apache.log4j.Logger;

import dvd.data.NoveDVD;
import dvd.data.NoveDVD_DAO;

public class UlozNoveDVDServlet extends HttpServlet
{
    private Logger logger = Logger.getLogger(this.getClass());
    private RequestDispatcher jsp;

    public void init(ServletConfig config) throws ServletException
    {
        ServletContext context = config.getServletContext();
        jsp = context.getRequestDispatcher("/web/WEB-INF/jsp/uloz-nove-dvd.jsp");
    }

    protected void doGet(HttpServletRequest req, HttpServletResponse resp)
        throws ServletException, IOException
    {
        logger.debug("doGet()");
        String idString = req.getParameter("id");
        Long id = new Long(idString);
        NoveDVD newsItem = new NoveDVD_DAO().find(id);
        req.setAttribute("newsItem", newsItem);
        jsp.forward(req, resp);
    }
}

```

```

package dvd.online.objednaj.web;

```

```

import java.io.IOException;
import java.util.HashMap;
import java.util.Map;

import javax.servlet.RequestDispatcher;
import javax.servlet.ServletConfig;
import javax.servlet.ServletContext;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

```

```

import org.apache.log4j.Logger;

```

```

import dvd.data.NoveDVD;
import dvd.data.NoveDVD_DAO;

```

```

public class UpravNoveDVDServlet extends HttpServlet
{
    private Logger logger = Logger.getLogger(this.getClass());
    private RequestDispatcher jsp;

    public void init(ServletConfig config) throws ServletException
    {
        ServletContext context = config.getServletContext();
        jsp = context.getRequestDispatcher("/web/WEB-INF/jsp/uloz-nove-dvd.jsp");
    }
}

```

```

}

protected void doGet(HttpServletRequest req, HttpServletResponse resp)
    throws ServletException, IOException
{
    logger.debug("doGet()");
    String idString = req.getParameter("id");
    Long id = new Long(idString);
    NoveDVD newsItem = new NoveDVD_DAO().find(id);
    req.setAttribute("newsItem", newsItem);
    jsp.forward(req, resp);
}

protected void doPost(HttpServletRequest req, HttpServletResponse resp)
    throws ServletException, IOException
{
    String id = req.getParameter("id");

    String cancelButton = req.getParameter("zrusenie - tlacitko");
    if (cancelButton != null)
    {
        logger.debug("zrusenie");
        resp.sendRedirect("zoznam-nove-dvd?id=" + id);
        return;
    }
    Map<String, String> errors = validate(req);
    if (!errors.isEmpty())
    {
        logger.debug("chyba kontroly");
        jsp.forward(req, resp);
        return;
    }

    NoveDVD newsItem = (NoveDVD) req.getAttribute("newsItem");
    new NoveDVD_DAO().update(newsItem);
    resp.sendRedirect("uloz-nove-dvd?id=" + id);
}

public static Map<String, String> validate(HttpServletRequest req)
{
    NoveDVD newsItem = new NoveDVD();
    HashMap<String, String> errors = new HashMap<String, String>();
    req.setAttribute("errors", errors);
    req.setAttribute("newsItem", newsItem);

    String idString = req.getParameter("id");
    if (idString != null && idString.length() > 0)
    {
        Long id = new Long(idString);
        newsItem.setId(id);
    }

    String titul = req.getParameter("titul");
    if (titul == null || titul.trim().length() == 0)
    {
        errors.put("titul", "Titul .");
    }
    newsItem.setTitul(titul);
}

```

```

        String nazov = req.getParameter("nazov");
        if (nazov == null || nazov.trim().length() == 0)
        {
            errors.put("nazov", "nazov dvd");
        }
        newItem.setNazov(nazov);

        return errors;
    }
}

package dvd.online.objednaj.web;
import java.io.IOException;

import javax.servlet.RequestDispatcher;
import javax.servlet.ServletConfig;
import javax.servlet.ServletContext;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import org.apache.log4j.Logger;
import dvd.data.NoveDVD;
import dvd.data.NoveDVD_DAO;

public class VymazDVDServlet extends HttpServlet
{
    private Logger logger = Logger.getLogger(this.getClass());
    private RequestDispatcher jsp;

    public void init(ServletConfig config) throws ServletException {
        ServletContext context = config.getServletContext();
        jsp = context.getRequestDispatcher("/web/WEB-INF/jsp/delete-news-item.jsp");
    }

    protected void doGet(HttpServletRequest req, HttpServletResponse resp)
    throws ServletException, IOException
    {
        logger.debug("doGet()");
        jsp.forward(req, resp);
    }

    protected void doPost(HttpServletRequest req, HttpServletResponse resp)
    throws ServletException, IOException
    {
        String idString = req.getParameter("id");

        String cancelButton = req.getParameter("cancel-button");
        if (cancelButton != null)
        {
            logger.debug("cancel button pressed");
            resp.sendRedirect("view-news-item?id=" + idString);
            return;
        }

        NoveDVD_DAO newItemDAO = new NoveDVD_DAO();
        Long id = new Long(idString);

```

```

        NoveDVD newItem = newItemDAO.find(id);
        new NoveDVD_DAO().delete(newItem);
        resp.sendRedirect("zoznam-nove-dvd");
    }
}

package dvd.online.objednaj.web;

import java.io.IOException;
import java.util.List;

import javax.servlet.RequestDispatcher;
import javax.servlet.ServletConfig;
import javax.servlet.ServletContext;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import org.apache.log4j.Logger;

import dvd.data.NoveDVD;
import dvd.data.NoveDVD_DAO;

public class ZoznamNoveDVDServlet extends HttpServlet
{
    private Logger logger = Logger.getLogger(this.getClass());
    private RequestDispatcher jsp;

    public void init(ServletConfig config) throws ServletException
    {
        ServletContext context = config.getServletContext();
        jsp = context.getRequestDispatcher("/web/WEB-INF/jsp/zoznam-nove-dvd.jsp");
    }

    protected void doGet(HttpServletRequest req, HttpServletResponse resp)
        throws ServletException, IOException
    {
        logger.debug("doGet()");
        List<NoveDVD> newsItems = new NoveDVD_DAO().findAll();
        req.setAttribute("newsItems", newsItems);
        jsp.forward(req, resp);
    }
}

package dvd.online.objednaj.web;
import java.io.IOException;
import java.io.PrintWriter;
import java.util.Vector;

import javax.servlet.ServletException;
import javax.servlet.ServletResponse;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

import dvd.data.DVDOrder;

```

```

import dvd.data.ShoppingCart;

public class OrderFilm extends HttpServlet
{
    @SuppressWarnings("unused")
    private ServletResponse response;
    @SuppressWarnings({ "deprecation", "unused" })
    public void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException,
IOException {
        HttpSession session = request.getSession(true);
        ShoppingCart cart;
        synchronized (session) {
            cart = (ShoppingCart)session.getValue("shoppingCart");
            if (cart == null) {
                cart = new ShoppingCart();
                session.putValue("shoppingCart", cart);
            }
            String itemID = request.getParameter("itemID");

            response.setContentType("text/html");
            PrintWriter out = response.getWriter();
            String titul = "HP";
            out.println(Titul (titul) +
                "<h1 align=\"center\">" + titul + "</h1>");
            synchronized(session) {
                @SuppressWarnings("rawtypes")
                Vector itemsOrdered = cart.getItemsOrdered();
                if (itemsOrdered.size() == 0) {
                    out.println("<H2><l>Ziadne polozky v tvojej karte </l></H2>");
                } else {
                    out.println
                    ("<table border=1 align=\"center\">\n" +
                    "<tr bgcolor=\"red\">\n" +
                    "    <th>Item ID<th>Popis\n" +
                    "<th>Cena<th>Pocet<th>Celkova cena");
                    DVDOrder order;
                    String formURL = "/servlet/Online_obchod.OrderPage"; } } }

                private String Titul(String titul)
            {
                return null;
            }

            public void doPost (HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
                doGet (request, response);
            }
        }
    }
}

```

Databaza:

```
<project name="MARGETOVA_PROJEKT" default="all" basedir=".">
  <property name="mysql.params" value="-u MARGETOVA_PROJEKT -pMARGETOVA_PROJEKT -D
MARGETOVA_PROJEKT" />
  <target name="all" depends="cleandb, createdb, insertdb"></target>

  <target name="cleandb">
    <exec executable="mysql" input="cleandb.sql">
      <arg line="${mysql.params}" />
    </exec>
  </target>

  <target name="createdb">
    <exec executable="mysql" input="createdb.sql">
      <arg line="${mysql.params}" />
    </exec>
  </target>

  <target name="insertdb">
    <exec executable="mysql" input="insertdb.sql">
      <arg line="${mysql.params}" />
    </exec>
  </target>
</project>
```

```
drop table if exists nove_dvd;
drop table if exists objednanie;
drop table if exists user;
```

```
create table nove_dvd
(
  id integer primary key,
  titul text not null,
  nazov text not null
);
```

```
create table user
(
  id integer primary key,
  username varchar(255) unique,
  password varchar(255)
);
```

```
create table objednanie
(
  next_value integer
);
```

```
insert into objednanie value (1);
```

```
insert into nove_dvd (id, titul, nazov) values (1, 'HP', 'AA');
insert into nove_dvd (id, titul, nazov) values (2, 'AE', 'iu');
insert into user (id, username, password) values (4, 'admin', 'admin');
insert into user (id, username, password) values (5, 'harry', 'harry');
insert into user (id, username, password) values (6, 'emma', 'emma');
```

HTML:

```
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">

<head>
  <title>DVD online</title>
</head>

<body style="margin: 0; padding: 0">

<table width="728"
        cellspacing="0"
        cellpadding="0"
        style="padding: 0; margin: 0; border-collapse: collapse">
<tr style="padding: 0; margin: 0">
<td width="728"
        colspan="2"
        style="padding: 0; margin: 0"></td>
</tr>
<tr style="padding: 0; margin: 0">
<td width="728"
        colspan="2"
        style="padding: 0; margin: 0"><div
        style="padding: 0;
        margin: 0;
        text-align: center;
        font-size: small;
        background-color: #99CCCC">

DVD
</div></td>
</tr>
<tr>
  <td rowspan="2"
        width="240"
        valign="top">
    <div style="height: 500px; padding: 20px; border-right: 3px dashed; margin-
right: 20px">
      <a href="zoznam-nove-dvd">Nase nove DVD</a><br/>
      <a href="uprav-nove-dvd">DVD-čka</a><br/>
      <a href="logout">Odhlásenie</a> <br/>
    </div>
  </td>
  <td width="488">
    <div style="margin-top: 12px; margin-bottom: 12 px">
      <a href="edit?item=3">edit</a>
      <a href="delete?item=3">delete</a>
    </div>
  </td>
</tr>
<tr>
  <td rowspan="2"
        width="240"
        valign="top">
    <div style="height: 500px; padding: 20px; border-right: 3px dashed; margin-
right: 20px">
      <a href="zoznam-nove-dvd">Nase nove DVD</a><br/>
      <a href="uprav-nove-dvd">DVD-čka</a><br/>
      <a href="logout">Odhlásenie</a> <br/>
    </div>
  </td>
  <td width="488">
    <div style="margin-top: 12px; margin-bottom: 12 px">
      <a href="edit?item=3">edit</a>
      <a href="delete?item=3">delete</a>
    </div>
  </td>
</tr>
<tr>
  <td rowspan="2"
        width="240"
        valign="top">
    <div style="height: 500px; padding: 20px; border-right: 3px dashed; margin-
right: 20px">
      <a href="zoznam-nove-dvd">Nase nove DVD</a><br/>
      <a href="uprav-nove-dvd">DVD-čka</a><br/>
      <a href="logout">Odhlásenie</a> <br/>
    </div>
  </td>
  <td width="488">
    <div style="margin-top: 12px; margin-bottom: 12 px">
      <a href="edit?item=3">edit</a>
      <a href="delete?item=3">delete</a>
    </div>
  </td>
</tr>
<tr>
  <td rowspan="2"
        width="240"
        valign="top">
    <div style="height: 500px; padding: 20px; border-right: 3px dashed; margin-
right: 20px">
      <a href="zoznam-nove-dvd">Nase nove DVD</a><br/>
      <a href="uprav-nove-dvd">DVD-čka</a><br/>
      <a href="logout">Odhlásenie</a> <br/>
    </div>
  </td>
  <td width="488">
    <div style="margin-top: 12px; margin-bottom: 12 px">
      <a href="edit?item=3">edit</a>
      <a href="delete?item=3">delete</a>
    </div>
  </td>
</tr>
</table>
```

```
</body>
</html>
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
<title>Filmy</title>
</head>
<body>
Tu su filmy<br/>
<ul>
<li><a href="home.jsp">Film</a></li>
</ul>
</body>
</html>
```

JSP:

```
</td>
</tr>
</table>
```

```
</body>
</html>
```

```
<%@ include file="top.inc" %>
```

```
<%@ include file="middle.inc" %>
```

```
<h1>Vitajte</h1>
```

```
<p>
Obchod s DVD
</p>
```

```
<%@ include file="bottom.inc" %>
```

```
<%@ include file="top.inc" %>
```

```
<%@ include file="middle.inc" %>
```

```
<h1>Vitajte</h1>
```

```
<p>
Obchod s DVD
</p>
```

```
<%@ include file="bottom.inc" %>
```

```
<html>
```

```
<head>
  <title>Hlavna</title>
</head>
```

```
<body style="margin: 0; padding: 0">
```

```
<table width="728"
  <u>cellspacing="0"
  <u>cellpadding="0"
```

```

        style="padding: 0; margin: 0; border-collapse: collapse">
<tr style="padding: 0; margin: 0">
<td width="728"
    colspan="2"
    style="padding: 0; margin: 0"></td>
</tr>
<tr style="padding: 0; margin: 0">
<td width="728"
    colspan="2"
    style="padding: 0; margin: 0"><div
        style="padding: 0;
            margin: 0;
            text-align: center;
            font-size: small;
            background-color: #99CCCC">
Hlavna
</div></td>
</tr>
<tr>
    <td rowspan="2"
        width="240"
        valign="top">
        <div style="height: 500px; padding: 20px; border-right: 3px dashed; margin-
right: 20px">
            <a href="zoznam-nove-dvd">Home</a><br/>
            <a href="uloz-nove-dvd">Nove</a><br/>
            <a href="logout">Koniec</a> <br/>
        </div>
    </td>
    <td width="488">
        <div style="margin-top: 12px; margin-bottom: 12 px">
<%@ include file="top.inc" %>

        <a href="uprav-nove-dvd?id=${newsItem.id}">Uprav</a>
        <a href="vymaz-nove-dvd?id=${newsItem.id}">.Vymaz</a>

<%@ include file="middle.inc" %>

<table>
    <tr>
        <td>Titul:</td>
        <td>${newsItem.titul}</td>

    </tr>
    <tr>
        <td>Nazov:</td>
        <td>
            ${newsItem.nazov}
            <a href="${newsItem.nazov}">Nazov</a>

        </td>
    </tr>
</table>

<%@ include file="bottom.inc" %>
<jsp:useBean id="errors" scope="request" type="java.util.Map"
class="java.util.HashMap" />

```

```

<%@ include file="top.inc" %>
<%@ include file="middle.inc" %>

<form method="post">
    <table>
        <tr>
            <td>Title</td>
            <td><input type="text" name="titul" value="{newsItem.titul}" size="50" />
                <%
                    if (errors.containsKey("titul")) {
                        out.println("<span class=\"error\">" + errors.get("titul") +
"</span>");
                    }
                %>
            </td>
        </tr>
        <tr>
            <td>Nazov</td>
            <td><input type="text" name="nazov" value="{newsItem.nazov}" size="50" />
                <%
                    if (errors.containsKey("nazov")) {
                        out.println("<span class=\"error\">" + errors.get("nazov") +
"</span>");
                    }
                %>
            </td>
        </tr>
        <tr>
            <td>
                <input type="submit" name="submit-button" value="Submit" />
                <input type="submit" name="zrusenie - tlacitko" value="Cancel" />
            </td>
        </tr>
    </table>
    <input type="hidden" name="id" value="{newsItem.id}" />

</form>

<%@ include file="bottom.inc" %>
<hr/>
<%@ include file="top.inc" %>
<%@ include file="middle.inc" %>

<p>
Vymazat uz nepredavane dvdčka
</p>

<form method="post">
    <input type="submit" name="delete-button" value="Delete" />
    <input type="submit" name="cancel-button" value="Cancel" />
    <input type="hidden" name="id" value="{params['id']}" />

</form>

<%@ include file="bottom.inc" %>
<hr/>
<%@ page import="java.util.Iterator" %>
<%@ page import="dvd.data.NoveDVD" %>
<jsp:useBean id="newsItem" scope="request" type="java.util.List" />
<%@ include file="top.inc" %>
    <a href="pridaj-nove-dvd">Nove DVD</a>
<%@ include file="middle.inc" %>

```

```

<ul>
  <%
    Iterator it = newsItems.iterator();
    while (it.hasNext())
    {
      NewsItem newsItem = (NewsItem) it.next();
    %>
    <li>
      <a href="view-news-
item?id=<%=newsItem.getId()%>"><%=newsItem.getTitul()%></a>
    </li>
  <% } %>
</ul>
<%@ include file="bottom.inc" %>

```

XML:

```

<?xml version="1.0"?>
<web-app
xmlns="http://java.sun.com/xml/ns/j2ee"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://java.sun.com/xml/ns/j2ee
http://java.sun.com/xml/ns/j2ee/web-app_2_4.xsd"
version="2.4">
  <listener>
    <listener-class>dvd.online.objednaj.web.Init</listener-class>
  </listener>

  <servlet>
    <servlet-name>Obj</servlet-name>
    <servlet-class>dvd.online.objednaj.web.ObjServlet</servlet-class>
  </servlet>

  <servlet-mapping>
    <servlet-name>news-rss</servlet-name>
    <url-pattern>/news.rss</url-pattern>
  </servlet-mapping>

  <servlet>
    <servlet-name>home</servlet-name>
    <servlet-class>dvd.online.objednaj.web.HomeServlet</servlet-class>
  </servlet>

  <servlet-mapping>
    <servlet-name>home</servlet-name>
    <url-pattern>/home</url-pattern>
  </servlet-mapping>

  <servlet>
    <servlet-name>zoznam-nove-dvd</servlet-name>
    <servlet-class>dvd.online.objednaj.web.ZoznamNoveDVDServlet</servlet-class>
  </servlet>

  <servlet-mapping>
    <servlet-name>zoznam-nove-dvd</servlet-name>
    <url-pattern>/zoznam-nove-dvd</url-pattern>
  </servlet-mapping>

  <servlet>
    <servlet-name>uloz-nove-dvd</servlet-name>
    <servlet-class>dvd.online.objednaj.web.UlozNoveDVDServlet</servlet-class>
  </servlet>

```

```
<servlet-mapping>
  <servlet-name>uloz-nove-dvd</servlet-name>
  <url-pattern>/uloz-nove-dvd</url-pattern>
</servlet-mapping>

<servlet>
  <servlet-name>pridaj-nove-dvd</servlet-name>
  <servlet-class>dvd.online.objednaj.web.PridajNoveDVDServlet</servlet-class>
</servlet>

<servlet-mapping>
  <servlet-name>pridaj-nove-dvd</servlet-name>
  <url-pattern>/pridaj-nove-dvd</url-pattern>
</servlet-mapping>
<servlet>
  <servlet-name>vymaz-stare-dvd</servlet-name>
  <servlet-class>dvd.online.objednaj.web.VymazDVDServlet</servlet-class>
</servlet>
<servlet-mapping>
  <servlet-name>vymaz-stare-dvd</servlet-name>
  <url-pattern>/vymaz-stare-dvd</url-pattern>
</servlet-mapping>

<resource-ref>
  <description>dataSource</description>
  <res-ref-name>dataSource</res-ref-name>
  <res-type>javax.sql.DataSource</res-type>
  <res-auth>Container</res-auth>
</resource-ref>

</web-app>
```

