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# Olive README

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Olive makes it easy to edit your videos.

```
package com.readytalk.olive.json;

public class AddToSelectedRequest {

    // No-args constructor
    public AddToSelectedRequest() {

    }

    public String command;
    public Arguments arguments;

    // Must be static for Gson to work.
    // See: http://sites.google.com/site/gson/gson-user-guide#TOC-Nested-Classes-including-Inner-Class
    public static class Arguments {

        // No-args constructor
        public Arguments() {

        }

        public String video;

    }

}
```

```
package com.readytalk.olive.json;

public class CombineVideosRequest {

    public CombineVideosRequest(){

    }

    public String command;
    public Arguments arguments;

    // Must be static for Gson to work.
    // See: http://sites.google.com/site/gson/gson-user-guide#TOC-Nested-Classes-including-Inner-Classes
    public static class Arguments {

        // No-args constructor
        public Arguments() {

        }

    }

}
```

```
package com.readytalk.olive.json;

public class DeleteAccountRequest {

    // No-args constructor
    public DeleteAccountRequest() {

    }

    public String command;
    public Arguments arguments;

    // Must be static for Gson to work.
    // See: http://sites.google.com/site/gson/gson-user-guide#TOC-Nested-Classes-including-Inner-Class
    public static class Arguments {

        // No-args constructor
        public Arguments() {

        }

        public String account;

    }

}
```

```
package com.readytalk.olive.json;

public class DeleteProjectRequest {

    // No-args constructor
    public DeleteProjectRequest() {

    }

    public String command;
    public Arguments arguments;

    // Must be static for Gson to work.
    // See: http://sites.google.com/site/gson/gson-user-guide#TOC-Nested-Classes-including-Inner-Class
    public static class Arguments {

        // No-args constructor
        public Arguments() {

        }

        public String project;

    }

}
```

```
package com.readytalk.olive.json;

public class DeleteVideoRequest {

    // No-args constructor
    public DeleteVideoRequest() {

    }

    public String command;
    public Arguments arguments;

    // Must be static for Gson to work.
    // See: http://sites.google.com/site/gson/gson-user-guide#TOC-Nested-Classes-including-Inner-Class
    public static class Arguments {

        // No-args constructor
        public Arguments() {

        }

        public String video;

    }

}
```

```
package com.readytalk.olive.json;

public class GeneralRequest {

    // No-args constructor
    public GeneralRequest() {

    }

    public String command;
    public Arguments arguments;

    // Must be static for Gson to work.
    // See: http://sites.google.com/site/gson/gson-user-guide#TOC-Nested-Classes-including-Inner-Class
    public static class Arguments {

        // No-args constructor
        public Arguments() {

        }

    }

}
```

```
package com.readytalk.olive.json;

public class RemoveFromSelectedRequest {

    // No-args constructor
    public RemoveFromSelectedRequest() {

    }

    public String command;
    public Arguments arguments;

    // Must be static for Gson to work.
    // See: http://sites.google.com/site/gson/gson-user-guide#TOC-Nested-Classes-including-I
    public static class Arguments {

        // No-args constructor
        public Arguments() {

        }

        public String video;

    }

}
```



```
package com.readytalk.olive.json;

public class SplitVideoRequest {

    // No-args constructor
    public SplitVideoRequest() {

    }

    public String command;
    public Arguments arguments;

    // Must be static for Gson to work.
    // See: http://sites.google.com/site/gson/gson-user-guide#TOC-Nested-Classes-including-Inner-Class
    public static class Arguments {

        // No-args constructor
        public Arguments() {

        }

        public String video;
        public double splitTimeInSeconds;

    }

}
```

```
package com.readytalk.olive.json;

public class UpdateProjectsPositionRequest {

    // No-args constructor
    public UpdateProjectsPositionRequest() {

    }

    public String command;
    public Arguments arguments;

    // Must be static for Gson to work.
    // See: http://sites.google.com/site/gson/gson-user-guide#TOC-Nested-Classes-including-Inner-Class
    public static class Arguments {

        // No-args constructor
        public Arguments() {

        }

        public Projects[] projects;

        // Must be static for Gson to work.
        // See: http://sites.google.com/site/gson/gson-user-guide#TOC-Nested-Classes-including-Inner-Class
        public static class Projects {

            // No-args constructor
            public Projects() {

            }

            public String project;
            public int position;

        }

    }

}
```

```
package com.readytalk.olive.json;

public class UpdateTimelinePositionRequest {

    // No-args constructor
    public UpdateTimelinePositionRequest() {

    }

    public String command;
    public Arguments arguments;

    // Must be static for Gson to work.
    // See: http://sites.google.com/site/gson/gson-user-guide#TOC-Nested-Classes-including-Inner-Class
    public static class Arguments {

        // No-args constructor
        public Arguments() {

        }

        public Videos[] videos;

        // Must be static for Gson to work.
        // See: http://sites.google.com/site/gson/gson-user-guide#TOC-Nested-Classes-including-Inner-Class
        public static class Videos {

            // No-args constructor
            public Videos() {

            }

            public String video;
            public int position;

        }

    }

}
```

```
package com.readytalk.olive.json;

public class UpdateVideosPositionRequest {

    // No-args constructor
    public UpdateVideosPositionRequest() {

    }

    public String command;
    public Arguments arguments;

    // Must be static for Gson to work.
    // See: http://sites.google.com/site/gson/gson-user-guide#TOC-Nested-Classes-including-Inner-Class
    public static class Arguments {

        // No-args constructor
        public Arguments() {

        }

        public Videos[] videos;

        // Must be static for Gson to work.
        // See: http://sites.google.com/site/gson/gson-user-guide#TOC-Nested-Classes-including-Inner-Class
        public static class Videos {

            // No-args constructor
            public Videos() {

            }

            public String video;
            public int position;

        }

    }

}
```

```
package com.readytalk.olive.json;

public class ZencoderInitialResponse {

    // No-args constructor
    public ZencoderInitialResponse() {

    }

    public Outputs[] outputs;
    public int id;

    // Must be static for Gson to work.
    // See: http://sites.google.com/site/gson/gson-user-guide#TOC-Nested-Classes-including-Inner-Class
    public static class Outputs {

        // No-args constructor
        public Outputs() {

        }

        public String url;
        public String label;
        public int id;

    }

}
```

```
package com.readytalk.olive.logic;

import java.sql.Connection;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.LinkedList;
import java.util.List;
import java.util.logging.Logger;

import javax.naming.Context;
import javax.naming.InitialContext;
import javax.sql.DataSource;

import org.jets3t.service.security.AWSCredentials;

import com.readytalk.olive.model.Project;
import com.readytalk.olive.model.User;
import com.readytalk.olive.model.Video;

public class DatabaseApi {

    private static Logger log = Logger.getLogger(DatabaseApi.class.getName());

    // CAUTION: closeConnection() must be called sometime after this method.
    public static Connection getDBConnection() {
        try {
            Context initCtx = new InitialContext();
            DataSource ds = (DataSource) initCtx
                .lookup("java:comp/env/jdbc/OliveData");
            return ds.getConnection();
        } catch (Exception e) {
            e.printStackTrace();
        }
        // TODO Close the connection here on error.
        return null;
    }

    public static void closeConnection(Connection c) {
        try {
            c.close();
        } catch (Exception e) {
            e.printStackTrace();
        }
    }

    public static Boolean isAuthorized(String username, String password) {
        Connection conn = getDBConnection();
        try {
            Statement st = conn.createStatement();
            String s = "USE OliveData;";
            st.executeUpdate(s);
            s = "SELECT AccountID FROM Accounts WHERE Username = '" + username
                + "' AND Password = Password('" + password + "')";
            ResultSet r = st.executeQuery(s);
            if (r.first()) {
                return true;
            }
            return false;
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

```
    } finally {
        closeConnection(conn);
    }
    return false; // Error!
}

public static boolean AddAccount(User user) {
    Connection conn = getDBConnection();
    try {
        Statement st = conn.createStatement();
        String s = "USE OliveData;";
        st.executeUpdate(s);
        s = "INSERT INTO Accounts (Username, Password, Name, Email) "
            + "VALUES ('" + user.getUsername() + "', Password('"
            + user.getPassword() + "') " + ", '" + user.getName()
            + "', '" + user.getEmail() + "')";
        st.executeUpdate(s);
        return true;
    } catch (Exception e) {
        e.printStackTrace();
    } finally {
        closeConnection(conn);
    }
    return false;
}

// Used for the general query: "SELECT W FROM X WHERE Y = Z;"
public static String getUnknownValueFromTable(String unknownLabel,
    String table, String knownLabel, String knownValue) {
    Connection conn = getDBConnection();
    try {
        Statement st = conn.createStatement();
        String s = "USE OliveData;";
        st.executeUpdate(s);

        s = "SELECT " + unknownLabel + " FROM " + table + " WHERE "
            + knownLabel + " = '" + knownValue + "'";
        ResultSet r = st.executeQuery(s);
        String unknownValue = "";
        if (r.first()) {
            unknownValue = r.getString(unknownLabel);
        }
        return unknownValue;
    } catch (Exception e) {
        e.printStackTrace();
    } finally {
        closeConnection(conn);
    }
    return null;
}

public static int getAccountId(String username) {
    return Integer.parseInt(getUnknownValueFromTable("AccountID",
        "Accounts", "Username", username));
}

public static String getAccountUsername(int accountId) {
    return getUnknownValueFromTable("Username", "Accounts", "AccountID",
        Integer.toString(accountId));
}

public static String getAccountPassword(int accountId) {
    return getUnknownValueFromTable("Password", "Accounts", "AccountID",
```

## src/com/readytalk/olive/logic/DatabaseApi.java

```
        Integer.toString(accountId));
    }

    public static String getAccountName(int accountId) {
        return getUnknownValueFromTable("Name", "Accounts", "AccountID",
            Integer.toString(accountId));
    }

    public static String getAccountEmail(int accountId) {
        return getUnknownValueFromTable("Email", "Accounts", "AccountID",
            Integer.toString(accountId));
    }

    public static String getAccountSecurityQuestion(int accountId) {
        return getUnknownValueFromTable("SecurityQuestion", "Accounts",
            "AccountID", Integer.toString(accountId));
    }

    public static String getAccountSecurityAnswer(int accountId) {
        return getUnknownValueFromTable("SecurityAnswer", "Accounts",
            "AccountID", Integer.toString(accountId));
    }

    public static Boolean editAccount(User user) {
        Connection conn = getDBConnection();
        try {
            Statement st = conn.createStatement();
            String s = "USE OliveData;";
            st.executeUpdate(s);
            s = "UPDATE Accounts SET Name = '" + user.getName()
                + "' WHERE Username = '" + user.getUsername() + "';";
            st.executeUpdate(s);

            s = "UPDATE Accounts SET Password = Password('"
                + user.getPassword() + "') WHERE Username = '"
                + user.getUsername() + "';";
            st.executeUpdate(s);

            s = "UPDATE Accounts SET Email = '" + user.getEmail()
                + "' WHERE Username = '" + user.getUsername() + "';";
            st.executeUpdate(s);

            s = "UPDATE Accounts SET SecurityQuestion = '"
                + user.getSecurityQuestion() + "' WHERE Username = '"
                + user.getUsername() + "';";
            st.executeUpdate(s);

            s = "UPDATE Accounts SET SecurityAnswer = '"
                + user.getSecurityAnswer() + "' WHERE Username = '"
                + user.getUsername() + "';";
            st.executeUpdate(s);
            return true;
        } catch (Exception e) {
            e.printStackTrace();
        } finally {
            closeConnection(conn);
        }
        return false;
    }

    public static void deleteAccount(int accountId) {
        // TODO implement
```

```
        // int projectId = getProjectId(name, accountId);
        // int videoId = getVideoId(name, projectId, accountId);

        // int projectId = -1;
        // int videoId = -1;

        Connection conn = getDBConnection();
        try {
            Statement st = conn.createStatement();
            String s = "USE OliveData;";
            st.executeUpdate(s);
            ResultSet r;
            s = "SELECT ProjectID FROM Projects WHERE AccountID = " + accountId
                + ";";
            r = st.executeQuery(s);
            if (r.first()) {
                do {
                    deleteProject(r.getInt("ProjectID"));
                } while (r.next());
            }
            // TODO Broken
            // Delete all videos associated with all projects associated with the account.
            // s = "DELETE FROM Videos WHERE ProjectID = '" + projectId + "';"; // TODO Add
            error checking
            // st.executeUpdate(s);

            // Delete all projects associated with the account.
            // s = "DELETE FROM Projects WHERE AccountID = '" + accountId + "';"; // TODO Ad
            d error checking
            // st.executeUpdate(s);

            // Delete the account itself.
            s = "DELETE FROM Accounts WHERE AccountID = '" + accountId + "';"; // TODO Add e
            rror checking
            st.executeUpdate(s);
        } catch (Exception e) {
            e.printStackTrace();
        } finally {
            closeConnection(conn);
        }
    }

    public static int getProjectId(String projectName, int accountId) {
        Connection conn = getDBConnection();
        try {
            Statement st = conn.createStatement();
            String s = "USE OliveData;";
            st.executeUpdate(s);
            s = "SELECT ProjectID FROM Projects WHERE Name = '" + projectName
                + "' AND AccountID = '" + accountId + "';";
            ResultSet r = st.executeQuery(s);
            int projectId = -1;
            if (r.first()) {
                projectId = r.getInt("ProjectID");
            }
            return projectId;
        } catch (Exception e) {
            e.printStackTrace();
        } finally {
            closeConnection(conn);
        }
        return -1;
    }
}
```

```

public static String getProjectName(int projectId) {
    return getUnknownValueFromTable("Name", "Projects", "ProjectID",
        Integer.toString(projectId));
}

public static int getProjectAccountId(int projectId) {
    return Integer.parseInt(getUnknownValueFromTable("AccountID",
        "Projects", "ProjectID", Integer.toString(projectId)));
}

public static String getProjectIcon(int projectId) {
    return getUnknownValueFromTable("Icon", "Projects", "ProjectID",
        Integer.toString(projectId));
}

public static String populateProjects(int accountId) {
    String projects = "";
    Connection conn = getDBConnection();
    try {
        Statement st = conn.createStatement();
        String s = "USE OliveData;";
        st.executeUpdate(s);
        s = "SELECT * FROM Projects WHERE AccountID = '" + accountId + "'";
        ResultSet r = st.executeQuery(s);
        if (r.first()) {
            int projectNum = 0;
            do {
                projectNum += 1; // TODO This is never used.
                String projectName = r.getString("Name");
                String projectIcon = "/olive/images/SPANISH OLIVES.jpg";
                projects += "<div id=\""
                    + projectName
                    + "\" class=\"project-icon-container\">"
                    + "\n"
                    + "<a href=\"OliveServlet?projectName=\""
                    + projectName
                    + "\"><img src=\""
                    + projectIcon
                    + "\" class=\"project-icon\" alt=\""
                    + projectName
                    + "\" /></a>"
                    + "\n"
                    + "<p><a href=\"OliveServlet?projectName=\""
                    + projectName
                    + "\">"
                    + projectName
                    + "</a></p>"
                    + "\n"
                    + "<p><small><a id=\"" // TODO Assign the videoName elsewhere fo
r the JavaScript to access.
                    + projectName
                    + "\" class=\"warning delete-project\">Delete</a></small></p>"
                    + "\n" + "</div>" + "\n";
            } while (r.next());
        }
        return projects;
    } catch (SQLException e) {
        e.printStackTrace();
    } finally {
        closeConnection(conn);
    }
    return projects;
}

```

```

// TODO change db to have unique usernames for accounts and names for
// both projects and videos in one project
}

public static boolean projectExists(String projectName, int accountId) {
    Connection conn = getDBConnection();
    try {
        Statement st = conn.createStatement();
        String s = "USE OliveData;";
        st.executeUpdate(s);

        s = "SELECT Name FROM Projects WHERE Name = '" + projectName
            + "' AND AccountID = '" + accountId + "'";
        ResultSet r = st.executeQuery(s);
        if (r.first()) {
            return true;
        }
        return false;
    } catch (Exception e) {
        e.printStackTrace();
    } finally {
        closeConnection(conn);
    }
    return false;
}

public static boolean AddProject(Project project) {
    Connection conn = getDBConnection();
    try {
        Statement st = conn.createStatement();
        String s = "USE OliveData;";
        st.executeUpdate(s);
        Boolean exists = projectExists(project.getName(),
            project.getAccountId());
        if (exists) {
            return false;
        }

        s = "INSERT INTO Projects (Name, AccountID, Icon) " + "VALUES ('"
            + project.getName() + "', '" + project.getAccountId()
            + "', '" + project.getIcon() + "')";
        st.executeUpdate(s);
        return true;
    } catch (Exception e) {
        e.printStackTrace();
    } finally {
        closeConnection(conn);
    }
    return false;
}

public static void deleteProject(int projectId) {
    Connection conn = getDBConnection();
    try {
        Statement st = conn.createStatement();
        String s = "USE OliveData;";
        st.executeUpdate(s);

        // Delete all videos associated with the project.
        s = "DELETE FROM Videos WHERE ProjectID = '" + projectId + "'"; // TODO Add err
or checking
        st.executeUpdate(s);
    }
}

```



```

        // Delete the project itself.
        s = "DELETE FROM Projects WHERE ProjectID = '" + projectId + "';"; // TODO Add e
        rror checking
        st.executeUpdate(s);
    } catch (Exception e) {
        e.printStackTrace();
    } finally {
        closeConnection(conn);
    }
}

public static boolean setProjectPoolPosition(int projectId, int position) {
    String positionType = "PoolPosition";
    Connection conn = getDBConnection();
    try {
        Statement st = conn.createStatement();
        String s = "USE OliveData;";
        st.executeUpdate(s);
        s = "UPDATE Projects SET " + positionType + " = '" + position
            + "' WHERE ProjectID = '" + projectId + "';";
        st.executeUpdate(s);
        return true;
    } catch (Exception e) {
        e.printStackTrace();
    } finally {
        closeConnection(conn);
    }
    return false;
}

public static boolean setAllProjectPoolPositionsToNull(int accountId) {
    Connection conn = getDBConnection();
    try {
        Statement st = conn.createStatement();
        String s = "USE OliveData;";
        st.executeUpdate(s);
        s = "SELECT ProjectID FROM Projects WHERE AccountID = '"
            + accountId + "';";
        ResultSet r = st.executeQuery(s);
        if (r.first()) {
            do {
                setProjectPoolPosition(r.getInt("ProjectID"), -1); // TODO Insert "NULL"
            } while (r.next());
        }
        return true;
    } catch (SQLException e) {
        e.printStackTrace();
    } finally {
        closeConnection(conn);
    }
    return false;
}

public static boolean isProjectPoolPositionNotNull(int projectId) {
    int position = getProjectPoolPosition(projectId);
    if (position != -1) {
        return true;
    }
    return false;
}

public static int getProjectPoolPosition(int projectId) {

```

```

        String projectPoolPosition = getUnknownValueFromTable("PoolPosition",
            "Projects", "ProjectID", Integer.toString(projectId));
        if (projectPoolPosition == null) {
            return -1; // TODO Is this a good idea?
        }
        return Integer.parseInt(projectPoolPosition);
    }

    // You don't need the accountId if you have the projectId. The projectId was
    // calculated using the accountId.
    public static int getVideoId(String videoName, int projectId) {
        Connection conn = getDBConnection();
        try {
            Statement st = conn.createStatement();
            String s = "USE OliveData;";
            st.executeUpdate(s);
            s = "SELECT VideoID FROM Videos WHERE Name = '" + videoName
                + "' AND ProjectID = '" + projectId + "';";
            ResultSet r = st.executeQuery(s);
            int videoId = -1;
            if (r.first()) {
                videoId = r.getInt("VideoID");
            }
            return videoId;
        } catch (Exception e) {
            e.printStackTrace();
        } finally {
            closeConnection(conn);
        }
        return -1;
    }

    public static String getVideoName(int videoId) {
        return getUnknownValueFromTable("Name", "Videos", "VideoID",
            Integer.toString(videoId));
    }

    public static String getVideoUrl(int videoId) {
        return getUnknownValueFromTable("URL", "Videos", "VideoID",
            Integer.toString(videoId));
    }

    public static String getVideoIcon(int videoId) {
        return getUnknownValueFromTable("Icon", "Videos", "VideoID",
            Integer.toString(videoId));
    }

    public static int getVideoProjectId(int videoId) {
        return Integer.parseInt(getUnknownValueFromTable("ProjectID", "Videos",
            "VideoID", Integer.toString(videoId)));
    }

    public static boolean isVideoPoolPositionNotNull(int videoId) {
        int position = getVideoPoolPosition(videoId);
        if (position != -1) {
            return true;
        }
        return false;
    }

    public static boolean isVideoTimelinePositionNotNull(int videoId) {
        int position = getVideoTimelinePosition(videoId);
        if (position != -1) {

```

```

        return true;
    }
    return false;
}

public static int getVideoPoolPosition(int videoId) {
    String videoPoolPosition = getUnknownValueFromTable("PoolPosition",
        "Videos", "VideoID", Integer.toString(videoId));
    if (videoPoolPosition == null) {
        return -1; // TODO Is this a good idea?
    }
    return Integer.parseInt(videoPoolPosition);
}

public static int getVideoTimelinePosition(int videoId) {
    String videoTimelinePosition = getUnknownValueFromTable(
        "TimelinePosition", "Videos", "VideoID",
        Integer.toString(videoId));
    if (videoTimelinePosition == null) {
        return -1; // TODO Is this a good idea?
    }
    return Integer.parseInt(videoTimelinePosition);
}

public static boolean getVideoIsSelected(int videoId) {
    int isSelectedAsInt = Integer.parseInt(getUnknownValueFromTable(
        "IsSelected", "Videos", "VideoID", Integer.toString(videoId)));
    if (isSelectedAsInt == 0) {
        return false;
    }

    return true;
}

private static boolean setVideoAsSelectedOrUnselected(int videoId,
    boolean isSelected) {
    int isSelectedAsInt;
    if (isSelected) {
        isSelectedAsInt = 1;
    } else {
        isSelectedAsInt = 0;
    }
    Connection conn = getDBConnection();
    try {
        Statement st = conn.createStatement();
        String s = "USE OliveData;";
        st.executeUpdate(s);
        s = "UPDATE Videos SET IsSelected = " + isSelectedAsInt
            + " WHERE VideoID = '" + videoId + "';";
        st.executeUpdate(s);
        return true;
    } catch (Exception e) {
        e.printStackTrace();
    } finally {
        closeConnection(conn);
    }
    return false;
}

public static boolean setVideoAsSelected(int videoId) {
    return setVideoAsSelectedOrUnselected(videoId, true);
}

```

```

public static boolean setVideoAsUnselected(int videoId) {
    return setVideoAsSelectedOrUnselected(videoId, false);
}

private static boolean setVideoPoolOrTimelinePosition(int videoId,
    int position, String positionType) {
    Connection conn = getDBConnection();
    try {
        Statement st = conn.createStatement();
        String s = "USE OliveData;";
        st.executeUpdate(s);
        s = "UPDATE Videos SET " + positionType + " = '" + position
            + "' WHERE VideoID = '" + videoId + "';";
        st.executeUpdate(s);
        return true;
    } catch (Exception e) {
        e.printStackTrace();
    } finally {
        closeConnection(conn);
    }
    return false;
}

public static boolean setVideoPoolPosition(int videoId, int position) {
    return setVideoPoolOrTimelinePosition(videoId, position, "PoolPosition");
}

public static boolean setTimelinePosition(int videoId, int position) {
    return setVideoPoolOrTimelinePosition(videoId, position,
        "TimelinePosition");
}

public static boolean setAllVideoPoolOrTimelinePositionsToNull(
    int projectId, String positionType) {
    Connection conn = getDBConnection();
    try {
        Statement st = conn.createStatement();
        String s = "USE OliveData;";
        st.executeUpdate(s);
        s = "SELECT VideoID FROM Videos WHERE ProjectID = '" + projectId
            + "';";
        ResultSet r = st.executeQuery(s);
        if (r.first()) {
            do {
                setVideoPoolOrTimelinePosition(r.getInt("VideoID"), -1, // TODO Insert "
                    NULL", not -1
                    positionType);
            } while (r.next());
        }
        return true;
    } catch (SQLException e) {
        e.printStackTrace();
    } finally {
        closeConnection(conn);
    }
    return false;
}

public static boolean setAllVideoPoolPositionsToNull(int projectId) {
    return setAllVideoPoolOrTimelinePositionsToNull(projectId,
        "PoolPosition");
}

```

## src/com/readytalk/olive/logic/DatabaseApi.java

```

public static boolean setAllVideoTimelinePositionsToNull(int projectId) {
    return setAllVideoPoolOrTimelinePositionsToNull(projectId,
        "TimelinePosition");
}

public static String populateVideos(int projectId) {
    String videos = "";
    Connection conn = getDBConnection();
    try {
        Statement st = conn.createStatement();
        String s = "USE OliveData;";
        st.executeUpdate(s);
        s = "SELECT * FROM Videos WHERE ProjectID = '" + projectId + "'";
        ResultSet r = st.executeQuery(s);
        if (r.first()) {
            int videoNum = 0;
            do {
                videoNum += 1; // TODO This is inconsistent with projects.
                String videoName = r.getString("Name");
                String videoIcon = "/olive/images/olive.png";

                videos += "<span id=\""
                    + videoName
                    + "\" class=\"video-container\"><img id=\"olive\"
                    + videoNum
                    + "\" class=\"video-icon\"
                    + \"\n\"
                    + \"src=\""
                    + videoIcon
                    + "\" alt=\"olive\"
                    + videoNum
                    + \"\n />\"
                    + \"\n\"
                    + videoName
                    + "<br />\"
                    + \"\n\"
                    + "<small><a id=\""
                    + videoName
                    + "\" class=\"link split-link\">Split</a></small>\"
                    + "<br />\"
                    + \"\n\"
                    + "<small><a id=\"" // TODO Assign the videoName elsewhere for t
                    + videoName
                    + "\" class=\"warning delete-video\">Delete</a></small> </span>\"
                    + \"\n\";
            } while (r.next());
        }
        return videos;
    } catch (SQLException e) {
        e.printStackTrace();
    } finally {
        closeConnection(conn);
    }
    return videos;
    // TODO change db to have unique usernames for accounts and names for
    // both projects and videos in one project
}

public static int[] getVideoIds(int projectId) {
    Connection conn = getDBConnection();
    List<Integer> videoIds = new LinkedList<Integer>();
    try {

```

```

        Statement st = conn.createStatement();
        String s = "USE OliveData;";
        st.executeUpdate(s);
        ResultSet r;
        s = "SELECT VideoID FROM Videos WHERE ProjectID = " + projectId
            + ";";
        r = st.executeQuery(s);
        if (r.first()) {
            do {
                videoIds.add(r.getInt("VideoID"));
            } while (r.next());
        }

        // Convert the List to an int array.
        int[] videoIdsAsIntArray = new int[videoIds.size()];
        for (int i = 0; i < videoIds.size(); ++i) {
            videoIdsAsIntArray[i] = videoIds.get(i);
        }

        return videoIdsAsIntArray;
    } catch (Exception e) {
        e.printStackTrace();
    } finally {
        closeConnection(conn);
    }
    return null;
}

public static void AddVideo(Video video) {
    Connection conn = getDBConnection();
    try {
        Statement st = conn.createStatement();
        String s = "USE OliveData;";
        st.executeUpdate(s);
        s = "INSERT INTO Videos (Name, URL, ProjectID, TimelinePosition,
            + " Icon, IsSelected, PoolPosition) VALUES ('"
            + video.getName() + "', '" + video.getUrl() + "', '"
            + video.getProjectId() + "', '"
            + video.getTimelinePosition() + "', '" + video.getIcon()
            + "', '" + (video.getIsSelected() ? 1 : 0) + "', '"
            + video.getPoolPosition() + "')";
        st.executeUpdate(s);
    } catch (Exception e) {
        e.printStackTrace();
    } finally {
        closeConnection(conn);
    }
}

public static void deleteVideo(int videoId) {
    Connection conn = getDBConnection();
    try {
        Statement st = conn.createStatement();
        String s = "USE OliveData;";
        st.executeUpdate(s);
        s = "DELETE FROM Videos WHERE VideoID = '" + videoId + "'"; // TODO Add error c
        st.executeUpdate(s);
    } catch (Exception e) {
        e.printStackTrace();
    } finally {
        closeConnection(conn);
    }
}

```

hecking

```
}

public static AWSCredentials getAwsCredentials() {
    String awsAccessKeyPropertyName = "";
    String awsSecretKeyPropertyName = "";
    Connection conn = getDBConnection();
    try {
        Statement st = conn.createStatement();
        String s = "USE OliveData;";
        st.executeUpdate(s);
        s = "SELECT * FROM S3Credentials;";
        ResultSet r = st.executeQuery(s);
        if (r.first()) {
            awsAccessKeyPropertyName = r.getString("AWSAccessKey");
            awsSecretKeyPropertyName = r.getString("AWSSecretKey");
        } else {
            log.severe("Cannot locate AWS credentials");
        }
    } catch (Exception e) {
        e.printStackTrace();
    } finally {
        closeConnection(conn);
    }

    return new AWSCredentials(awsAccessKeyPropertyName,
        awsSecretKeyPropertyName);
}

public static String getZencoderApiKey() {
    String zencoderApiKey = "";
    Connection conn = DatabaseApi.getDBConnection();
    try {
        Statement st = conn.createStatement();
        String s = "USE OliveData;";
        st.executeUpdate(s);
        s = "SELECT * FROM ZencoderCredentials;";
        ResultSet r = st.executeQuery(s);
        if (r.first()) {
            zencoderApiKey = r.getString("ZencoderAPIKey");
        } else {
            log.severe("Cannot locate Zencoder credentials");
        }
    } catch (Exception e) {
        e.printStackTrace();
    } finally {
        closeConnection(conn);
    }

    return zencoderApiKey;
}

public static Boolean isCorrectSecurityInfo(String username,
    String securityQuestion, String securityAnswer) {
    Connection conn = getDBConnection();
    try {
        Statement st = conn.createStatement();
        String s = "USE OliveData;";
        st.executeUpdate(s);
        s = "SELECT AccountID FROM Accounts WHERE Username = '" + username
            + "' AND SecurityQuestion = '" + securityQuestion
            + "' AND SecurityAnswer = '" + securityAnswer + "';";
        ResultSet r = st.executeQuery(s);
        if (r.first()) {
```

```
        return true;
    }
    return false;
} catch (Exception e) {
    e.printStackTrace();
} finally {
    closeConnection(conn);
}
return false; // Error!
}

public static Boolean editPassword(String username, String newPassword) {
    Connection conn = getDBConnection();
    try {
        Statement st = conn.createStatement();
        String s = "USE OliveData;";
        st.executeUpdate(s);
        s = "UPDATE Accounts SET Password = Password('' + newPassword
            + ''') WHERE Username = '" + username + "';";
        st.executeUpdate(s);
        return true;
    } catch (Exception e) {
        e.printStackTrace();
    } finally {
        closeConnection(conn);
    }
    return false;
}

public static String[] getVideosOnTimeline(int projectId) {
    Connection conn = getDBConnection();
    try{
        Statement st = conn.createStatement();
        String s = "USE OliveData;";
        st.executeUpdate(s);
        s = "SELECT * FROM Videos WHERE ProjectID = '"+projectId+"';";
        ResultSet r = st.executeQuery(s);
        ArrayList timelinePositionTemp = new ArrayList();
        if(r.first()){
            do{
                int temp = r.getInt("TimelinePosition");
                if(temp != -1){
                    timelinePositionTemp.add(temp);
                }
            }while(r.next());
            Object [] timelinePosition0 = timelinePositionTemp.toArray();
            Integer temp = null;
            int [] timelinePosition = new int[timelinePosition0.length];
            int i = 0;
            for(i = 0; i<timelinePosition0.length;i++){
                temp = (Integer)timelinePosition0[i];
                timelinePosition[i] = temp.intValue();
            }
            Arrays.sort(timelinePosition);
            String [] result = new String[timelinePosition.length];
            for(i = 0; i<timelinePosition.length;i++){
                s = "SELECT Name FROM Videos WHERE ProjectID = '"+projectId+"' AND TimelinePosition = '"+timelinePosition[i]+'";";
                r = st.executeQuery(s);
                if(r.first()){
                    result[i] = r.getString("Name");
                }
            }
        }
    }
```

```
        return result;
    }
    else{
        return null;
    }
} catch (Exception e) {
    e.printStackTrace();
} finally {
    closeConnection(conn);
}
return null;
}
}
```

## src/com/readytalk/olive/logic/S3Api.java

```
package com.readytalk.olive.logic;

import java.io.File;
import java.io.IOException;
import java.security.NoSuchAlgorithmException;
import java.text.SimpleDateFormat;
import java.util.Calendar;
import java.util.logging.Logger;

import org.jets3t.service.S3ServiceException;
import org.jets3t.service.ServiceException;
import org.jets3t.service.acl.AccessControlList;
import org.jets3t.service.acl.EmailAddressGrantee;
import org.jets3t.service.acl.GroupGrantee;
import org.jets3t.service.acl.Permission;
import org.jets3t.service.impl.rest.httpclient.RestS3Service;
import org.jets3t.service.model.S3Object;
import org.jets3t.service.security.AWSCredentials;

import com.google.gson.Gson;
import com.readytalk.olive.model.Video;
import com.readytalk.olive.util.InvalidFileSizeException;

// JetS3t code samples (in Java): https://bitbucket.org/jmurty/jets3t/src/Release-0_8_0/src/org/jets3t/samples/CodeSamples.java
// JetS3t code samples (in HTML): http://jets3t.s3.amazonaws.com/toolkit/code-samples.html#downloading
// JetS3t JavaDocs: http://jets3t.s3.amazonaws.com/api/org/jets3t/service/model/StorageObject.html
public class S3Api {
    private static final String BUCKET_NAME = "test-bucket-Olive";
    private static final String AWS_URL_PREFIX = "https://s3.amazonaws.com/"
        + BUCKET_NAME + "/";
    private static final String ZENCODER_AWS_EMAIL = "aws@zencoder.com";
    private static final long MAX_SIZE_IN_BYTES = 31457280L; // 30 MB
    private static final long MIN_SIZE_IN_BYTES = 1L; // ~0 MB
    private static final String DATE_FORMAT = "yyyy-MM-dd-HH-mm-ss-SSS";
    private static Logger log = Logger.getLogger(S3Api.class.getName());

    private static RestS3Service getS3Service() throws S3ServiceException {
        AWSCredentials awsCredentials = DatabaseApi.getAwsCredentials();

        // RestS3Service is similar to HttpClient
        RestS3Service s3Service = new RestS3Service(awsCredentials);
        return s3Service;
    }

    // TODO Make this a hash function that uses the time
    public static String getTime() {
        Calendar calendar = Calendar.getInstance();
        SimpleDateFormat simpleDateFormat = new SimpleDateFormat(DATE_FORMAT);
        return simpleDateFormat.format(calendar.getTime());
    }

    public static String uploadFile(File file) throws InvalidFileSizeException,
        IOException, ServiceException, NoSuchAlgorithmException {
        if (file.length() > MAX_SIZE_IN_BYTES) {
            throw new InvalidFileSizeException("File larger than "
                + MAX_SIZE_IN_BYTES + " bytes");
        }
        if (file.length() < MIN_SIZE_IN_BYTES) {
            throw new InvalidFileSizeException("File smaller than "
                + MIN_SIZE_IN_BYTES + " bytes");
        }
    }
}
```

```
    }

    S3Object fileAsS3Object = null;
    try {
        RestS3Service s3Service = getS3Service();

        // Set Content-Length automatically based on the file's extension.
        fileAsS3Object = new S3Object(file);

        String fileNameOnS3 = S3Api.getTime() + "-" + file.getName(); // TODO Make sure
this isn't too long.

        fileAsS3Object.setName(fileNameOnS3);

        // Extend the permissions already set by the bucket.
        AccessControlList acl = s3Service.getBucketAcl(BUCKET_NAME);
        acl.grantPermission(new EmailAddressGrantee(ZENCODER_AWS_EMAIL),
            Permission.PERMISSION_FULL_CONTROL);
        acl.grantPermission(GroupGrantee.ALL_USERS,
            Permission.PERMISSION_READ);
        fileAsS3Object.setAcl(acl);

        // Upload the data object.
        s3Service.putObject(BUCKET_NAME, fileAsS3Object);

        String unconvertedVideoUrl = AWS_URL_PREFIX + fileNameOnS3;

        String convertedVideoUrl = ZencoderApi
            .convertToOgg(unconvertedVideoUrl);

        return convertedVideoUrl;
    } catch (IOException e) {
        log.severe("Error connecting with S3");
        e.printStackTrace();
        throw new IOException(e.getMessage());
    } catch (S3ServiceException e) {
        log.severe("Error creating RestS3Service object");
        e.printStackTrace();
        throw new S3ServiceException(e.getMessage());
    } catch (NoSuchAlgorithmException e) {
        log.severe("Error creating S3Object object");
        e.printStackTrace();
        throw new NoSuchAlgorithmException(e.getMessage());
    } finally {
        fileAsS3Object.closeDataInputStream();
    }
}

public static void deleteFileInS3(String fileName) {
    log.severe("deleteFileInS3 has not yet been implemented.");
    // Do something like this:
    // RestS3Service s3Service = getS3Service();
    // s3Service.deleteObject(BUCKET_NAME, objectKey); // TODO Store objectKey in the da
tabase
}

public static String getNameFromUrl(String videoUrl) {
    return videoUrl.substring(AWS_URL_PREFIX.length());
}

public static String getNameFromUrlWithNewTimeStamp(String videoUrl) {
    return S3Api.getTime()
        + getNameFromUrl(videoUrl).substring(S3Api.getTime().length()); // TODO Fix

```

```
fugly code
}

public static String getVideoInformation(int projectId) {
    int[] videoIds = DatabaseApi.getVideoIds(projectId);
    Video[] videos = new Video[videoIds.length];

    for (int videoIndex = 0; videoIndex < videoIds.length; ++videoIndex) {
        String videoName = DatabaseApi.getVideoName(videoIds[videoIndex]);
        String videoUrl = DatabaseApi.getVideoUrl(videoIds[videoIndex]);
        String videoIcon = DatabaseApi.getVideoIcon(videoIds[videoIndex]);
        int poolPosition = DatabaseApi
            .getVideoPoolPosition(videoIds[videoIndex]);
        int timelinePosition = DatabaseApi
            .getVideoTimelinePosition(videoIds[videoIndex]);
        boolean isSelected = DatabaseApi
            .getVideoIsSelected(videoIds[videoIndex]);

        videos[videoIndex] = new Video(videoName, videoUrl, videoIcon,
            projectId, poolPosition, timelinePosition, isSelected);
    }

    return new Gson().toJson(videos);
}
}
```





```
// Remove the *really* bad stuff (which cause XSS attacks and SQL
// injections).
for (int i = 0; i < illegalStrings.length; ++i) {
    output = output.replace(illegalStrings[i], "");
}

return output;
}
}
```

## src/com/readytalk/olive/logic/ZencoderApi.java

```

package com.readytalk.olive.logic;

import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStream;
import java.io.InputStreamReader;
import java.io.OutputStreamWriter;
import java.net.MalformedURLException;
import java.net.URL;
import java.net.URLConnection;

import com.google.gson.Gson;
import com.readytalk.olive.json.GeneralRequest;
import com.readytalk.olive.json.ZencoderInitialResponse;
import com.readytalk.olive.model.Video;

// Modified from: http://www.exampledepot.com/egs/java.net/post.html
public class ZencoderApi {
    private static final String ZENCODER_API_JOBS_URL = "https://app.zencoder.com/api/jobs/";
    ;
    private static final String ZENCODER_API_OUTPUTS_URL_PREFIX = "https://app.zencoder.com/api/outputs/";

    // Don't use id. See: http://zencoder.com/docs/api/#status
    private static void waitForJobToFinish(int outputId)
        throws MalformedURLException, IOException {
        String zencoderOutputsUrl = ZENCODER_API_OUTPUTS_URL_PREFIX + outputId
            + "/progress?api_key=" + DatabaseApi.getZencoderApiKey();

        // Example responses (in order):
        // {"current_event":"Transcoding","progress":"100.0","state":"processing"}
        // {"current_event":"Uploading","progress":"100.0","state":"processing"}
        // {"current_event":"Uploading","state":"finished"}

        while (!doGet(zencoderOutputsUrl).contains("\"state\": \"finished\"")) {
            System.out.println("Job " + outputId + " not done yet.");
            try {
                Thread.sleep(1000); // 1 second
            } catch (InterruptedException e) {
                // TODO Auto-generated catch block
                e.printStackTrace();
            }
        }
    }

    // Modified from: http://download.oracle.com/javase/tutorial/networking/urls/readingWriting.html
    private static String getResponse(InputStream inputStream)
        throws IOException {
        // Get the response
        BufferedReader bufferedReader = new BufferedReader(
            new InputStreamReader(inputStream));
        String line;
        String response = "";
        while ((line = bufferedReader.readLine()) != null) {
            response += line + System.getProperty("line.separator");
        }
        bufferedReader.close();
        System.out.println(response);
        return response;
    }

    public static String doGet(String url) throws IOException {

```

```

        return getResponse((new URL(url)).openConnection().getInputStream());
    }

    // Even though this method lives in the ZencoderApi class, it is generalized
    // for any type of POST request.
    // Modified from: http://download.oracle.com/javase/tutorial/networking/urls/readingWriting.html
    public static String sendReceive(String data, URL url) throws IOException {
        // Send data
        System.out.println("Sending data to Zencoder...");
        URLConnection conn = url.openConnection();
        conn.setDoOutput(true);
        OutputStreamWriter outputStreamWriter = new OutputStreamWriter(
            conn.getOutputStream());
        outputStreamWriter.write(data);
        outputStreamWriter.flush();
        System.out.println("Data sent to Zencoder.");
        outputStreamWriter.close();

        return getResponse(conn.getInputStream());
    }

    private static String getJsonForSplit(String input, String baseUrl,
        String filename, double startClip, double clipLength) {
        String data = "{\"api_key\":\"" + DatabaseApi.getZencoderApiKey()
            + "\",\"input\":\"" + input + "\",\"
            + \"output\":[{"base_url\":\"" + baseUrl + "\",\"
            + \"filename\":\"" + filename + "\",\"public\":1,\"
            + \"start_clip\":\"" + startClip + "\",\"clip_length\":\""
            + clipLength + "}]}"
        System.out.println(data);
        return data;
    }

    private static String getJsonForConvertToOgg(String input, String baseUrl,
        String filename, String videoCodec, String audioCodec) {
        // Codec and file extension must match.
        String data = "{\"api_key\":\"" + DatabaseApi.getZencoderApiKey()
            + "\",\"input\":\"" + input + "\",\"
            + \"output\":[{"base_url\":\"" + baseUrl + "\",\"
            + \"filename\":\"" + filename + "\",\"video_codec\":\""
            + videoCodec + "\",\"audio_codec\":\"" + audioCodec
            + "\",\"public\":1 + "}]}"
        System.out.println(data);
        return data;
    }

    public static Video[] split(int videoId, double splitTimeInSeconds)
        throws IOException {
        String originalVideoUrl = DatabaseApi.getVideoUrl(videoId);
        String awsBaseUrl = S3Api.AWS_URL_PREFIX;
        double maximumStartTimeInSeconds = Security.MIN_SPLIT_TIME_IN_SECONDS;
        double minimumEndTimeInSeconds = Security.MAX_SPLIT_TIME_IN_SECONDS;
        double[] splitStartInSeconds = { 0, splitTimeInSeconds };
        double[] clipLengthInSeconds = {
            splitTimeInSeconds - maximumStartTimeInSeconds,
            minimumEndTimeInSeconds - splitTimeInSeconds }; // Draw a picture to underst
        and this.
        Video[] videoFragments = new Video[2];
        String[] responses = new String[2];

        // Request the first and second halves of the original video.
        for (int i = 0; i < 2; ++i) {

```

```
String videoFragmentFileName = S3Api
    .getNameFromUrlWithNewTimeStamp(originalVideoUrl);
responses[i] = ZencoderApi.sendReceive(ZencoderApi.getJsonForSplit(
    originalVideoUrl, awsBaseUrl, videoFragmentFileName,
    splitStartInSeconds[i], clipLengthInSeconds[i]), new URL(
    ZENCODER_API_JOBS_URL));
videoFragments[i] = new Video(
    DatabaseApi.getVideoName(videoId) + i, S3Api.AWS_URL_PREFIX
    + videoFragmentFileName,
    "/olive/images/bbb480.jpg", -1, -1, -1, false); // TODO Get icon from Ze
ncoder
}

// Wait for the first and second halves of the original video.
for (int i = 0; i < 2; ++i) {
    ZencoderInitialResponse zencoderInitialResponse = new Gson().fromJson(
        responses[i], ZencoderInitialResponse.class);
    waitForJobToFinish(zencoderInitialResponse.outputs[0].id);
}

return videoFragments;
}

public static String convertToOgg(String videoUrl) throws IOException {
    String awsBaseUrl = S3Api.AWS_URL_PREFIX;
    String newExtension = ".ogg";
    String convertedVideoFileName = S3Api
        .getNameFromUrlWithNewTimeStamp(videoUrl) + newExtension;
    String newVideoCodec = "theora";
    String newAudioCodec = "vorbis";

    String response = ZencoderApi.sendReceive(
        getJsonForConvertToOgg(videoUrl, awsBaseUrl,
            convertedVideoFileName, newVideoCodec, newAudioCodec),
        new URL(ZENCODER_API_JOBS_URL));
    ZencoderInitialResponse zencoderInitialResponse = new Gson().fromJson(
        response, ZencoderInitialResponse.class);
    waitForJobToFinish(zencoderInitialResponse.outputs[0].id);

    return S3Api.AWS_URL_PREFIX + convertedVideoFileName;
}
}
```

```
package com.readytalk.olive.model;

public class Project {

    private String name;
    private int accountId;
    private String icon;

    public Project(String name, int accountId, String icon) {
        this.name = name;
        this.accountId = accountId;
        this.icon = icon;
    }

    @Override
    public String toString() {
        return name;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public int getAccountId() {
        return accountId;
    }

    public void setAccountId(int accountId) {
        this.accountId = accountId;
    }

    public String getIcon() {
        return icon;
    }

    public void setIcon(String icon) {
        this.icon = icon;
    }
}
```

```
package com.readytalk.olive.model;
```

```
public class User {
```

```
    private String username;  
    private String password;  
    private String name;  
    private String email;  
    private String securityQuestion;  
    private String securityAnswer;
```

```
    public User(String username, String password, String name, String email) {  
        this.username = username;  
        this.password = password;  
        this.name = name;  
        this.email = email;  
    }
```

```
    public User(String username, String password, String name,  
                String email, String securityQuestion, String securityAnswer) {  
        this.username = username;  
        this.password = password;  
        this.name = name;  
        this.email = email;  
        this.setSecurityQuestion(securityQuestion);  
        this.setSecurityAnswer(securityAnswer);  
    }
```

```
    @Override  
    public String toString() {  
        return username;  
    }
```

```
    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 void setName(String name) {  
        this.name = name;  
    }
```

```
    public String getName() {  
        return name;  
    }
```

```
    public void setEmail(String email) {  
        this.email = email;  
    }
```

```
    public String getEmail() {
```

```
        return email;  
    }
```

```
    public void setSecurityQuestion(String securityQuestion) {  
        this.securityQuestion = securityQuestion;  
    }
```

```
    public String getSecurityQuestion() {  
        return securityQuestion;  
    }
```

```
    public void setSecurityAnswer(String securityAnswer) {  
        this.securityAnswer = securityAnswer;  
    }
```

```
    public String getSecurityAnswer() {  
        return securityAnswer;  
    }
```

```
}
```

```
package com.readytalk.olive.model;
```

```
public class Video {
```

```
    private String name;  
    private String url;  
    private String icon;  
    private int projectId;  
    private int poolPosition;  
    private int timelinePosition;  
    private boolean isSelected;
```

```
    public Video(String name, String url, String icon, int projectId,  
        int poolPosition, int timelinePosition, boolean isSelected) {  
        this.name = name;  
        this.url = url;  
        this.icon = icon;  
        this.projectId = projectId;  
        this.poolPosition = poolPosition;  
        this.timelinePosition = timelinePosition;  
        this.isSelected = isSelected;  
    }
```

```
    public String getName() {  
        return name;  
    }
```

```
    public void setName(String name) {  
        this.name = name;  
    }
```

```
    public String getUrl() {  
        return url;  
    }
```

```
    public void setUrl(String url) {  
        this.url = url;  
    }
```

```
    public String getIcon() {  
        return icon;  
    }
```

```
    public void setIcon(String icon) {  
        this.icon = icon;  
    }
```

```
    public int getProjectId() {  
        return projectId;  
    }
```

```
    public void setProjectId(int project) {  
        this.projectId = project;  
    }
```

```
    public void setPoolPosition(int poolPosition) {  
        this.poolPosition = poolPosition;  
    }
```

```
    public int getPoolPosition() {  
        return poolPosition;  
    }
```

```
    public void setTimelinePosition(int timelinePosition) {  
        this.timelinePosition = timelinePosition;  
    }
```

```
    public int getTimelinePosition() {  
        return timelinePosition;  
    }
```

```
    public void setIsSelected(boolean isSelected) {  
        this.isSelected = isSelected;  
    }
```

```
    public boolean getIsSelected() {  
        return isSelected;  
    }
```

```
}
```

```
package com.readytalk.olive.servlet;

import java.io.BufferedReader;
import java.io.File;
import java.io.IOException;
import java.io.InputStream;
import java.io.InputStreamReader;
import java.io.OutputStream;
import java.io.PrintWriter;
import java.io.UnsupportedEncodingException;
import java.security.NoSuchAlgorithmException;
import java.util.Iterator;
import java.util.List;
import java.util.logging.Logger;

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 javax.servlet.http.HttpSession;

import org.apache.commons.fileupload.FileItem;
import org.apache.commons.fileupload.FileUploadException;
import org.apache.commons.fileupload.disk.DiskFileItemFactory;
import org.apache.commons.fileupload.servlet.ServletFileUpload;
import org.jets3t.service.ServiceException;

import com.google.gson.Gson;
import com.readytalk.olive.json.AddToSelectedRequest;
import com.readytalk.olive.json.CombineVideosRequest;
import com.readytalk.olive.json.DeleteAccountRequest;
import com.readytalk.olive.json.DeleteProjectRequest;
import com.readytalk.olive.json.DeleteVideoRequest;
import com.readytalk.olive.json.GeneralRequest;
import com.readytalk.olive.json.RemoveFromSelectedRequest;
import com.readytalk.olive.json.SplitVideoRequest;
import com.readytalk.olive.json.UpdateProjectsPositionRequest;
import com.readytalk.olive.json.UpdateTimelinePositionRequest;
import com.readytalk.olive.json.UpdateVideosPositionRequest;
import com.readytalk.olive.logic.ZencoderApi;
import com.readytalk.olive.logic.DatabaseApi;
import com.readytalk.olive.logic.S3Api;
import com.readytalk.olive.logic.Security;
import com.readytalk.olive.model.Project;
import com.readytalk.olive.model.User;
import com.readytalk.olive.model.Video;
import com.readytalk.olive.util.Attribute;
import com.readytalk.olive.util.InvalidFileSizeException;

public class OliveServlet extends HttpServlet {
    // Don't store anything as a member variable in the Servlet.
    // private Object dontDoThis;

    // Generated using Eclipse's "Add generated serial version ID" refactoring.
    private static final long serialVersionUID = -6820792513104430238L;
    // Static variables are okay, though, because they don't change across instances.
    private static Logger log = Logger.getLogger(OliveServlet.class.getName());
    public static final String TEMP_DIR_PATH = "/temp/"; // TODO Make a getter for this.
    public static File tempDir; // TODO Make a getter for this.
    public static final String DESTINATION_DIR_PATH = "/temp/"; // TODO Make a getter for this.

    public static File destinationDir; // TODO Make a getter for this.

    // Modified from: http://www.jsptube.com/servlet-tutorials/servlet-file-upload-example.html
    // Also see: http://stackoverflow.com/questions/4101960/storing-image-using-htm-input-type-file
    @Override
    public void init(ServletConfig config) throws ServletException {
        super.init(config);
        createTempDirectories();
    }

    private void createTempDirectories() throws ServletException {
        String realPathTemp = getServletContext().getRealPath(TEMP_DIR_PATH);
        tempDir = new File(realPathTemp);
        if (!tempDir.isDirectory()) {
            throw new ServletException(TEMP_DIR_PATH + " is not a directory");
        }
        String realPathDest = getServletContext().getRealPath(DESTINATION_DIR_PATH);
        destinationDir = new File(realPathDest);
        if (!destinationDir.isDirectory()) {
            throw new ServletException(DESTINATION_DIR_PATH + " is not a directory");
        }
    }

    private int getAccountIdFromSessionAttributes(HttpSession session) {
        String sessionUsername = (String) session
            .getAttribute(Attribute.USERNAME.toString());
        return DatabaseApi.getAccountId(sessionUsername);
    }

    private int getProjectIdFromSessionAttributes(HttpSession session) {
        String sessionUsername = (String) session
            .getAttribute(Attribute.USERNAME.toString());
        int accountId = DatabaseApi.getAccountId(sessionUsername);
        String sessionProjectName = (String) session
            .getAttribute(Attribute.PROJECT_NAME.toString());
        int projectId = DatabaseApi.getProjectId(sessionProjectName, accountId);
        return projectId;
    }

    private int getProjectIdFromSessionAttributes(HttpSession session,
        String projectName) {
        return DatabaseApi.getProjectId(projectName,
            getAccountIdFromSessionAttributes(session));
    }

    private int getVideoIdFromSessionAttributes(HttpSession session,
        String videoName) {
        return DatabaseApi.getVideoId(videoName,
            getProjectIdFromSessionAttributes(session));
    }

    @Override
    protected void doPost(HttpServletRequest request,
        HttpServletResponse response) throws ServletException, IOException {
        HttpSession session = request.getSession();
        if (request.getContentType().contains(
            "application/x-www-form-urlencoded")) { // Full value: "application/x-www-form-urlencoded"
            // This is a regular text form.
```

```

String id = request.getParameter("FormName");
log.info("The servlet is responding to an "
    + "HTTP POST request from form: " + id);
if (id.equals("LoginUser")) {
    handleLogin(request, response, session);
} else if (id.equals("EditUser")) {
    handleEditUser(request, response, session);
} else if (id.equals("AddUser")) {
    handleAddUser(request, response, session);
} else if (id.equals("AddProject")) {
    handleAddProject(request, response, session);
} else if (id.equals("security-question-form")) {
    handleSecurityQuestion(request, response, session);
} else if (id.equals("new_password")) {
    handleNewPassword(request, response, session);
} else {
    log.severe("HTTP POST request coming from unknown form: " + id);
}
} else if (request.getContentType().contains("multipart/form-data")) { // Full value
: "multipart/form-data; boundary=---WebKitFormBoundaryjAGjLWGWeI3ltfBe"
// This is a file upload form.
log.info("The servlet is responding to an "
    + "HTTP POST request from a file upload form");
handleUploadVideo(request, response, session);
} else if (request.getContentType().contains("application/json")) {
// This is not a form, but a custom POST request with JSON in it.
log.info("The servlet is responding to an "
    + "HTTP POST request in JSON format");
try {
    handleJsonPostRequest(request, response, session);
} catch (NoSuchAlgorithmException e) {
    // TODO Auto-generated catch block
    e.printStackTrace();
} catch (InvalidFileSizeException e) {
    // TODO Auto-generated catch block
    e.printStackTrace();
} catch (ServiceException e) {
    // TODO Auto-generated catch block
    e.printStackTrace();
}
} else {
    log.severe("Unknown content type");
}
}

private void handleNewPassword(HttpServletRequest request,
    HttpServletResponse response, HttpSession session)
    throws UnsupportedEncodingException, IOException {
// TODO Auto-generated method stub
String newPassword = request.getParameter("password");
String confirmNewPassword = request.getParameter("confirm_password");
Boolean newPasswordSet;
if (Security.isSafePassword(newPassword)
    && Security.isSafePassword(confirmNewPassword)) {
    session.setAttribute(Attribute.IS_SAFE.toString(), true);
    if (newPassword.equals(confirmNewPassword)) {
        session.setAttribute(Attribute.PASSWORDS_MATCH.toString(), true);
        String username = (String) session
            .getAttribute(Attribute.USERNAME.toString());
        newPasswordSet = DatabaseApi
            .editPassword(username, newPassword);
        session.setAttribute(Attribute.EDIT_SUCCESSFULLY.toString(),
            newPasswordSet);
    } else {
        session.setAttribute(Attribute.PASSWORDS_MATCH.toString(),
            false);
        session.setAttribute(Attribute.EDIT_SUCCESSFULLY.toString(),
            false);
    }
} else {
    session.setAttribute(Attribute.IS_SAFE.toString(), false);
    session.setAttribute(Attribute.EDIT_SUCCESSFULLY.toString(), false);
}
response.sendRedirect("new-password-form.jsp");
session.removeAttribute(Attribute.USERNAME.toString());
}

private void handleSecurityQuestion(HttpServletRequest request,
    HttpServletResponse response, HttpSession session)
    throws UnsupportedEncodingException, IOException {
// TODO Auto-generated method stub
String username = request.getParameter("username");
String securityQuestion = request.getParameter("security_question");
String securityAnswer = request.getParameter("security_answer");
Boolean isCorrect;
if (Security.isSafeUsername(username)
    && Security.isSafeSecurityQuestion(securityQuestion)
    && Security.isSafeSecurityAnswer(securityAnswer)) {
    session.setAttribute(Attribute.IS_SAFE.toString(), true);
    isCorrect = DatabaseApi.isCorrectSecurityInfo(username,
        securityQuestion, securityAnswer);
    session.setAttribute(Attribute.IS_CORRECT.toString(), isCorrect);
    if (isCorrect) {
        session.setAttribute(Attribute.USERNAME.toString(), username);
        response.sendRedirect("new-password-form.jsp");
        session.removeAttribute(Attribute.IS_SAFE.toString()); // Cleared so as to n
ot interfere with any other form.
    } else {
        response.sendRedirect("forgot.jsp");
    }
} else {
    session.setAttribute(Attribute.IS_SAFE.toString(), false);
    session.setAttribute(Attribute.IS_CORRECT.toString(), false);
    response.sendRedirect("forgot.jsp");
}
}

// http://www.apl.jhu.edu/~hall/java/Servlet-Tutorial/Servlet-Tutorial-Form-Data.html
@Override
protected void doGet(HttpServletRequest request,
    HttpServletResponse response) throws ServletException, IOException {
log.info("The servlet is responding to an HTTP GET request");
response.setContentType("text/html");
HttpSession session = request.getSession();
String projectName = request.getParameter("projectName");
int accountId = DatabaseApi.getProjectExists(projectName, accountId) { // Short-circuiting
    session.setAttribute(Attribute.PROJECT_NAME.toString(), projectName);
    response.sendRedirect("editor.jsp");
} else {
    response.sendRedirect("projects.jsp");
}
}
PrintWriter out = response.getWriter();
out.println("File uploaded. Please close this window and refresh the editor page.");

```



```
        out.close();
    }

    private void handleLogin(HttpServletRequest request,
        HttpServletResponse response, HttpSession session)
        throws UnsupportedEncodingException, IOException {
        Boolean isAuthorized;
        String username = request.getParameter("username");
        String password = request.getParameter("password");
        if (Security.isSafeUsername(username)
            && Security.isSafePassword(password)) {
            session.setAttribute(Attribute.IS_SAFE.toString(), true);
            isAuthorized = DatabaseApi.isAuthorized(username, password);
            session.setAttribute(Attribute.IS_AUTHORIZED.toString(),
                isAuthorized);
            if (isAuthorized) { // Take the user to the projects page.
                int accountId = DatabaseApi.getAccountId(username);
                session.setAttribute(Attribute.USERNAME.toString(),
                    DatabaseApi.getAccountUsername(accountId));
                session.setAttribute(Attribute.PASSWORD.toString(), password);
                session.setAttribute(Attribute.EMAIL.toString(),
                    DatabaseApi.getAccountEmail(accountId));
                session.setAttribute(Attribute.NAME.toString(),
                    DatabaseApi.getAccountName(accountId));
                session.removeAttribute(Attribute.IS_SAFE.toString()); // Cleared so as to not
                // interfere with any other form.
                response.sendRedirect("projects.jsp");
            } else {
                response.sendRedirect("index.jsp"); // Keep the user on the same page.
            }
        } else {
            session.setAttribute(Attribute.IS_SAFE.toString(), false);
            session.setAttribute(Attribute.IS_AUTHORIZED.toString(), false);
            response.sendRedirect("index.jsp");
        }
    }

    private void handleEditUser(HttpServletRequest request,
        HttpServletResponse response, HttpSession session)
        throws UnsupportedEncodingException, IOException {
        String username = (String) session.getAttribute(Attribute.USERNAME
            .toString());
        String newName = request.getParameter("new-name");
        String newEmail = request.getParameter("new-email");
        String newPassword = request.getParameter("new-password");
        String confirmNewPassword = request
            .getParameter("confirm-new-password");
        String securityQuestion = request.getParameter("security_question");
        String securityAnswer = request.getParameter("security_answer");
        log.info("Security question: " + securityQuestion
            + ". Security Answer: " + securityAnswer);
        if (Security.isSafeName(newName) && Security.isSafeEmail(newEmail)
            && Security.isSafePassword(newPassword)
            && Security.isSafePassword(confirmNewPassword)
            && Security.isSafeSecurityQuestion(securityQuestion)
            && Security.isSafeSecurityAnswer(securityAnswer)) {
            if (newPassword.equals(confirmNewPassword)) {
                User updateUser = new User(username, newPassword, newName,
                    newEmail, securityQuestion, securityAnswer);
                Boolean editSuccessfully = DatabaseApi.editAccount(updateUser);
                session.setAttribute(Attribute.EDIT_SUCCESSFULLY.toString(),
                    editSuccessfully);
                session.setAttribute(Attribute.PASSWORDS_MATCH.toString(), true);
            }
        }
    }
}
```

```
        session.setAttribute(Attribute.PASSWORD.toString(), newPassword);
        session.setAttribute(Attribute.EMAIL.toString(), newEmail);
        session.setAttribute(Attribute.NAME.toString(), newName);
        session.setAttribute(Attribute.SECURITY_QUESTION.toString(),
            securityQuestion);
        session.setAttribute(Attribute.SECURITY_ANSWER.toString(),
            securityAnswer);
    } else {
        session.setAttribute(Attribute.EDIT_SUCCESSFULLY.toString(),
            false);
        session.setAttribute(Attribute.PASSWORDS_MATCH.toString(),
            false);
    }
} else {
    session.setAttribute(Attribute.EDIT_SUCCESSFULLY.toString(), false);
}
response.sendRedirect("account.jsp");
}

private void handleAddUser(HttpServletRequest request,
    HttpServletResponse response, HttpSession session)
    throws IOException {
    // The jQuery regex should catch malicious input, but sanitize just to
    // be safe.
    String username = Security.stripOutIllegalCharacters(request
        .getParameter("name"));
    String password = Security.stripOutIllegalCharacters(request
        .getParameter("password"));
    String email = Security.stripOutIllegalCharacters(request
        .getParameter("email"));
    User newUser = new User(username, password, "", email);
    Boolean addSuccessfully = DatabaseApi.AddAccount(newUser);
    if (addSuccessfully) {
        session.setAttribute(Attribute.IS_AUTHORIZED.toString(), true);
        session.setAttribute(Attribute.USERNAME.toString(), username);
        session.setAttribute(Attribute.PASSWORD.toString(), password);
        session.setAttribute(Attribute.EMAIL.toString(), email);
        response.sendRedirect("projects.jsp");
    } else {
        response.sendRedirect("index.jsp");
        // TODO Add error message here
    }
}

private void handleAddProject(HttpServletRequest request,
    HttpServletResponse response, HttpSession session)
    throws UnsupportedEncodingException, IOException {
    String projectName = request.getParameter("ProjectName");
    if (Security.isSafeProjectName(projectName)) {
        session.setAttribute(Attribute.IS_SAFE.toString(), true);

        String sessionUsername = (String) session
            .getAttribute(Attribute.USERNAME.toString());
        int accountId = DatabaseApi.getAccountId(sessionUsername);
        String icon = ""; // TODO Get this from user input.
        Project project = new Project(projectName, accountId, icon);
        Boolean added = DatabaseApi.AddProject(project);
        if (!added) {
            session.setAttribute(Attribute.ADD_SUCCESSFULLY.toString(),
                false);
        } else {
            session.setAttribute(Attribute.ADD_SUCCESSFULLY.toString(),
                true);
        }
    }
}
```

```
}
} else {
    session.setAttribute(Attribute.IS_SAFE.toString(), false);
}
response.sendRedirect("new-project-form.jsp");
}

private void handleUploadVideo(HttpServletRequest request,
    HttpServletResponse response, HttpSession session)
    throws IOException {
    PrintWriter out = response.getWriter();
    out.println("Uploading file...");

    response.setContentType("text/plain");

    DiskFileItemFactory fileItemFactory = new DiskFileItemFactory();
    // Set the size threshold, above which content will be stored on disk.
    fileItemFactory.setSizeThreshold(1 * 1024 * 1024); // 1 MB

    // Set the temporary directory to store the uploaded files of size above threshold.
    fileItemFactory.setRepository(tempDir);

    ServletFileUpload uploadHandler = new ServletFileUpload(fileItemFactory);
    File file = null;
    try {
        /*
         * Parse the request
         */
        List items = uploadHandler.parseRequest(request);
        Iterator itr = items.iterator();

        /*
         * The two items in the form
         */
        FileItem videoNameItem = null;
        FileItem fileItem = null;
        while (itr.hasNext()) {
            FileItem item = (FileItem) itr.next();
            /*
             * Handle Form Fields.
             */
            if (item.isFormField())
                && item.getFieldName().equals("VideoName")) { // Short-circuitry
                // Handle text fields
                log.info("Form Name = \"" + item.getFieldName()
                    + "\", Value = \"" + item.getString() + "\"");
                videoNameItem = item;
            } else {
                // Handle Uploaded files.
                log.info("Field Name = \"" + item.getFieldName()
                    + "\", File Name = \"" + item.getName()
                    + "\", Content type = \""
                    + item.getContentType() // TODO Save this
                    + "\", File Size (bytes) = \"" + item.getSize()
                    + "\"");
                fileItem = item;
            }
        }

        if (videoNameItem == null) {
            log.severe("Video name field not found in video upload form");
            return;
        }
    }
```

```
if (fileItem == null) {
    log.severe("File field not found in video upload form");
    return;
}

/*
 * Write file to the ultimate location.
 */
FileItem i = fileItem;
file = new File(destinationDir, fileItem.getName()); // Allocate the space
fileItem.write(file); // Save the file to the allocated space
int projectId = getProjectIdFromSessionAttributes(session);
String videoName = videoNameItem.getString();
if (Security.isSafeVideoName(videoName) && Security.isSafeVideo(i)) {
    String videoUrl = S3Api.uploadFile(file);
    if (videoUrl != null) {
        DatabaseApi.AddVideo(new Video(videoName, videoUrl,
            "/olive/images/bbb480.jpg", projectId, -1, -1,
            false)); // TODO Get icon from Zencoder.
        // File downloadedFile = S3Api.downloadFile(videoUrl); // TODO Add to /t
        emp/ folder so it can be played in the player.
        out.println("File uploaded. Please close this window and refresh the edi
        tor page.");
        out.println();
    } else {
        out.println("Upload Failed. Error uploading video to the cloud.");
        log.warning("Upload Failed. Error uploading video to the cloud.");
        // response.sendError(HttpServletResponse.SC_BAD_REQUEST);
        return;
    }
} else if (Security.isSafeVideoName(videoName)) {
    out.println("Upload Failed. Video type is invalid.");
    log.warning("Upload Failed. Video type is invalid.");
    // response.sendError(HttpServletResponse.SC_UNSUPPORTED_MEDIA_TYPE);
    return;
} else {
    out.println("Upload Failed. Video name may consist of a-z, 0-9; and must beg
    in with a letter.");
    log.warning("Upload Failed. Video name may consist of a-z, 0-9; and must beg
    in with a letter.");
    // response.sendError(HttpServletResponse.SC_BAD_REQUEST, "Bad Name");
    return;
}

} catch (FileUploadException e) {
    log.severe("Error encountered while parsing the request in the upload handler");
    out.println("Upload failed.");
    e.printStackTrace();
} catch (InvalidFileSizeException e) {
    log.severe("Invalid file size");
    out.println("Upload failed (invalid file size)");
    e.printStackTrace();
} catch (Exception e) {
    log.severe("Unknown error encountered while uploading file");
    out.println("Upload failed (unknown reason).");
    e.printStackTrace();
} finally {
    if (out != null) {
        out.close();
    }
    if (file != null) {
        file.delete();
    }
}
```

```
    }  
}  
  
// Gson help: http://code.google.com/p/google-gson/  
// http://stackoverflow.com/questions/338586/a-better-java-json-library  
// http://stackoverflow.com/questions/1688099/convert-jason-to-java/1688182#1688182  
private void handleJsonPostRequest(HttpServletRequest request,  
    HttpServletResponse response, HttpSession session)  
    throws IOException, NoSuchAlgorithmException, InvalidFileSizeException, ServiceE  
xception {  
    String line;  
    String json = "";  
    while ((line = request.getReader().readLine()) != null) {  
        json += line;  
    }  
    request.getReader().close();  
  
    GeneralRequest generalRequest = new Gson().fromJson(json,  
        GeneralRequest.class);  
  
    if (generalRequest.command.equals("deleteAccount")) {  
        handleDeleteAccount(request, response, session, json);  
    } else if (generalRequest.command.equals("getProjects")) {  
        handleGetProjects(request, response, session, json);  
    } else if (generalRequest.command.equals("createProject")) {  
        handleCreateProject(request, response, session, json);  
    } else if (generalRequest.command.equals("deleteProject")) {  
        handleDeleteProject(request, response, session, json);  
    } else if (generalRequest.command.equals("renameProject")) {  
        handleRenameProject(request, response, session, json);  
    } else if (generalRequest.command.equals("updateProjectsPosition")) {  
        handleUpdateProjectsPosition(request, response, session, json);  
    } else if (generalRequest.command.equals("getVideos")) {  
        handleGetVideos(request, response, session, json);  
    } else if (generalRequest.command.equals("createVideo")) {  
        handleCreateVideo(request, response, session, json);  
    } else if (generalRequest.command.equals("deleteVideo")) {  
        handleDeleteVideo(request, response, session, json);  
    } else if (generalRequest.command.equals("renameVideo")) {  
        handleRenameVideo(request, response, session, json);  
    } else if (generalRequest.command.equals("addToTimeline")) {  
        handleAddToTimeline(request, response, session, json);  
    } else if (generalRequest.command.equals("removeFromTimeline")) {  
        handleRemoveFromTimeline(request, response, session, json);  
    } else if (generalRequest.command.equals("addToSelected")) {  
        handleAddToSelected(request, response, session, json);  
    } else if (generalRequest.command.equals("removeFromSelected")) {  
        handleRemoveFromSelected(request, response, session, json);  
    } else if (generalRequest.command.equals("splitVideo")) {  
        handleSplitVideo(request, response, session, json);  
    } else if (generalRequest.command.equals("combineVideos")) {  
        handleCombineVideos(request, response, session, json);  
    } else if (generalRequest.command.equals("updateVideosPosition")) {  
        handleUpdateVideosPosition(request, response, session, json);  
    } else if (generalRequest.command.equals("updateTimelinePosition")) {  
        handleUpdateTimelinePosition(request, response, session, json);  
    } else if (generalRequest.command.equals("getVideoInformation")) {  
        handleGetVideoInformation(request, response, session, json);  
    } else {  
        log.warning("JSON request not recognized.");  
        log.warning("JSON request not recognized.");  
        response.sendError(HttpServletResponse.SC_BAD_REQUEST);  
        return;  
    }  
}
```

```
    }  
}  
  
private void handleDeleteAccount(HttpServletRequest request,  
    HttpServletResponse response, HttpSession session, String json)  
    throws IOException {  
    DeleteAccountRequest deleteAccountRequest = new Gson().fromJson(json,  
        DeleteAccountRequest.class);  
  
    response.setContentType("text/plain");  
    // response.setStatus(HttpServletResponse.SC_OK); // Unnecessary  
  
    PrintWriter out = response.getWriter();  
  
    String sessionUsername = (String) session  
        .getAttribute(Attribute.USERNAME.toString());  
    int accountId = DatabaseApi.getAccountId(sessionUsername);  
    DatabaseApi.deleteAccount(accountId);  
  
    out.println(deleteAccountRequest.arguments.account  
        + " deleted successfully.");  
    out.close();  
}  
  
private void handleGetProjects(HttpServletRequest request,  
    HttpServletResponse response, HttpSession session, String json)  
    throws IOException {  
    log.severe("handleGetProjects has not yet been implemented.");  
}  
  
private void handleCreateProject(HttpServletRequest request,  
    HttpServletResponse response, HttpSession session, String json)  
    throws IOException {  
    log.severe("handleCreateProject has not yet been implemented.");  
}  
  
private void handleDeleteProject(HttpServletRequest request,  
    HttpServletResponse response, HttpSession session, String json)  
    throws IOException {  
    DeleteProjectRequest deleteProjectRequest = new Gson().fromJson(json,  
        DeleteProjectRequest.class);  
  
    response.setContentType("text/plain");  
    // response.setStatus(HttpServletResponse.SC_OK); // Unnecessary  
  
    PrintWriter out = response.getWriter();  
  
    String sessionUsername = (String) session  
        .getAttribute(Attribute.USERNAME.toString());  
    int accountId = DatabaseApi.getAccountId(sessionUsername);  
    String projectToDelete = deleteProjectRequest.arguments.project;  
    int projectId = DatabaseApi.getProjectId(projectToDelete, accountId);  
    DatabaseApi.deleteProject(projectId);  
  
    out.println(deleteProjectRequest.arguments.project  
        + " deleted successfully.");  
    out.close();  
}  
  
private void handleRenameProject(HttpServletRequest request,  
    HttpServletResponse response, HttpSession session, String json)  
    throws IOException {  
    log.severe("handleRenameProject has not yet been implemented.");  
}
```

```
}

private void handleUpdateProjectsPosition(HttpServletRequest request,
    HttpServletResponse response, HttpSession session, String json)
    throws IOException {
    UpdateProjectsPositionRequest updateProjectsPositionRequest = new Gson()
        .fromJson(json, UpdateProjectsPositionRequest.class);

    int accountId = getAccountIdFromSessionAttributes(session);
    DatabaseApi.setAllProjectPoolPositionsToNull(accountId);

    int numberOfProjects = updateProjectsPositionRequest.arguments.projects.length;
    for (int projectIndex = 0; projectIndex < numberOfProjects; ++projectIndex) {
        String projectName = updateProjectsPositionRequest.arguments.projects[projectIndex].projectName;
        int projectId = getProjectIdFromSessionAttributes(session, projectName);
        int position = updateProjectsPositionRequest.arguments.projects[projectIndex].position;
        DatabaseApi.setProjectPoolPosition(projectId, position);
    }
}

private void handleGetVideos(HttpServletRequest request,
    HttpServletResponse response, HttpSession session, String json)
    throws IOException {
    log.severe("handleGetVideos has not yet been implemented.");
}

private void handleCreateVideo(HttpServletRequest request,
    HttpServletResponse response, HttpSession session, String json)
    throws IOException {
    log.severe("handleCreateVideo has not yet been implemented.");
}

private void handleDeleteVideo(HttpServletRequest request,
    HttpServletResponse response, HttpSession session, String json)
    throws IOException {
    DeleteVideoRequest deleteVideoRequest = new Gson().fromJson(json,
        DeleteVideoRequest.class);

    response.setContentType("text/plain");

    PrintWriter out = response.getWriter();

    int projectId = getProjectIdFromSessionAttributes(session);
    int videoId = DatabaseApi.getVideoId(
        deleteVideoRequest.arguments.video, projectId);
    DatabaseApi.deleteVideo(videoId);

    S3Api.deleteFileInS3(DatabaseApi.getVideoName(videoId));

    S3Api.deleteFileInS3(DatabaseApi.getVideoName(videoId));

    out.println(deleteVideoRequest.arguments.video
        + " deleted successfully.");
    out.close();
}

private void handleRenameVideo(HttpServletRequest request,
    HttpServletResponse response, HttpSession session, String json)
    throws IOException {
    log.severe("handleRenameVideo has not yet been implemented.");
}
```

```
}

private void handleAddToTimeline(HttpServletRequest request,
    HttpServletResponse response, HttpSession session, String json)
    throws IOException {
    log.severe("handleAddToTimeline has not yet been implemented.");
}

private void handleRemoveFromTimeline(HttpServletRequest request,
    HttpServletResponse response, HttpSession session, String json)
    throws IOException {
    log.severe("handleRemoveFromTimeline has not yet been implemented.");
}

private void handleAddToSelected(HttpServletRequest request,
    HttpServletResponse response, HttpSession session, String json)
    throws IOException {
    AddToSelectedRequest addToSelectedRequest = new Gson().fromJson(json,
        AddToSelectedRequest.class);

    int videoId = getVideoIdFromSessionAttributes(session,
        addToSelectedRequest.arguments.video);

    if (!DatabaseApi.setVideoAsSelected(videoId)) {
        log.severe("Error marking video " + videoId + " as selected");
    }
}

private void handleRemoveFromSelected(HttpServletRequest request,
    HttpServletResponse response, HttpSession session, String json)
    throws IOException {
    RemoveFromSelectedRequest removeFromSelectedRequest = new Gson()
        .fromJson(json, RemoveFromSelectedRequest.class);

    int videoId = getVideoIdFromSessionAttributes(session,
        removeFromSelectedRequest.arguments.video);

    if (!DatabaseApi.setVideoAsUnselected(videoId)) {
        log.severe("Error marking video " + videoId + " as unselected");
    }
}

private void handleSplitVideo(HttpServletRequest request,
    HttpServletResponse response, HttpSession session, String json)
    throws IOException {
    SplitVideoRequest splitVideoRequest = new Gson().fromJson(json,
        SplitVideoRequest.class);

    response.setContentType("text/plain");

    PrintWriter out = response.getWriter();

    if (!Security.isSafeVideoName(splitVideoRequest.arguments.video)) {
        out.println("Name of video to split is invalid.");
        log.warning("Name of video to split is invalid.");
        response.sendError(HttpServletResponse.SC_BAD_REQUEST);
        return;
    }

    if (!Security
        .isSafeSplitTimeInSeconds(splitVideoRequest.arguments.splitTimeInSeconds)) {
        out.println("Split time (in seconds) is invalid.");
        log.warning("Split time (in seconds) is invalid.");
    }
}
```

## src/com/readytalk/olive/servlet/OliveServlet.java

```

        response.sendError(HttpServletResponse.SC_BAD_REQUEST);
        return;
    }

    int projectId = getProjectIdFromSessionAttributes(session);
    int videoId = DatabaseApi.getVideoId(splitVideoRequest.arguments.video,
        projectId);
    Video[] videoFragments = ZencoderApi.split(videoId,
        splitVideoRequest.arguments.splitTimeInSeconds);

    for (Video videoFragment : videoFragments) { // foreach-loop
        DatabaseApi.AddVideo(new Video(videoFragment.getName(),
            videoFragment.getUrl(), videoFragment.getIcon(), projectId,
            -1, -1, false)); // projectId not computed by Zencoder
    }

    out.println(splitVideoRequest.arguments.video + " split at "
        + splitVideoRequest.arguments.splitTimeInSeconds
        + " seconds successfully.");
    out.close();
}

private void handleCombineVideos(HttpServletRequest request,
    HttpServletResponse response, HttpSession session, String json)
    throws IOException, NoSuchAlgorithmException, InvalidFileSizeException, ServiceException {
    /*CombineVideosRequest combineVideosRequest = new Gson().fromJson(json,
        CombineVideosRequest.class);

    response.setContentType("text/plain");

    PrintWriter out = response.getWriter();
    int projectId = getProjectIdFromSessionAttributes(session);
    String [] videos = DatabaseApi.getVideosOnTimeline(projectId);
    String [] videoURLs = new String[videos.length];
    for (int i = 0; i < videos.length; i++){
        videoURLs[i] = DatabaseApi.getVideoUrl(DatabaseApi.getVideoId(videos[i], project
Id));
    }

    String combinedURL = combineVideos(videoURLs, videos);
    ServletContext ctx = getServletContext();
    response.setContentType("text/plain");
    response.setHeader("Content-Disposition",
        "attachment;filename=downloadname.txt");
    InputStream is = ctx.getResourceAsStream(combinedURL);
    int read=0;
    byte[] bytes = new byte[1024];
    OutputStream os = response.getOutputStream();

    while((read = is.read(bytes))!= -1){
        os.write(bytes, 0, read);
    }
    os.flush();
    os.close();
    */
    log.severe("handleCombineVideos has not yet been implemented.");
}

private String combineVideos(String[] videoURLs, String [] videos) throws IOException, N
oSuchAlgorithmException, InvalidFileSizeException, ServiceException {
    String [] result = new String[2];
    result[0] = "combined";

    String [] oldVideoNames = videos;
    Runtime r = Runtime.getRuntime();
    boolean isWindows = isWindows();
    boolean isLinux = isLinux();
    for(int i = 0; i < videos.length-1; i++){
        log.info("Video 1: NAME: "+videos[0]+" - URL:"+videoURLs[0]+"...Video 2: NAME: "
+videos[1]+" - URL:"+videoURLs[i+1]);
        Process process = r.exec("ffmpeg -i "+videoURLs[0]+" -sameq temp\\"+videos[0]+"
.mpg");

        InputStream is2 = process.getInputStream();
        InputStreamReader isr2 = new InputStreamReader(is2);
        BufferedReader br2 = new BufferedReader(isr2);
        String line;
        for(int j = 0; j<5;j++) {
            log.info("command 1: "+br2.readLine());
        }
        r.exec("ffmpeg -i "+videoURLs[i+1]+" -sameq temp\\"+videos[i+1]+".mpg");

        if(isWindows){
            log.info("Windows");
            r.exec("cmd /c copy /b temp\\"+videos[0]+".mpg+temp\\"+videos[i+1]+".mpg tem
p\\intermediateTemp.mpg");
            //r.exec("cmd /c del temp\\"+videos[i+1]+".mpg");
        }
        else if(isLinux){
            log.info("Linux");
            String [] arr = {"/bin/sh","-c","cat temp\\"+videos[0]+".mpg + temp\\"+video
s[i+1]+".mpg > temp\\intermediateTemp.mpg"};
            r.exec(arr);
            //r.exec("rm temp\\"+videos[i+1]+".mpg");
        }
        else{
            return null;
        }
        log.info("after IFS");
        r.exec("ffmpeg -i temp\\intermediateTemp.mpg -sameq temp\\Combined\\combined.ogv
");

        videos[0] = "combined";
        videoURLs[0] = "temp\\Combined\\combined.ogv";
    }
    //Removing all temp files except for the one combined video
    result[1] = videoURLs[0];
    File file = new File(result[1]);
    return S3Api.uploadFile(file);

}

//http://www.mkymong.com/java/how-to-detect-os-in-java-systemgetpropertyosname/
private Boolean isWindows(){
    String os = System.getProperty("os.name").toLowerCase();
    //windows
    return (os.indexOf( "win" ) >= 0);
}

private Boolean isLinux(){
    String os = System.getProperty("os.name").toLowerCase();
    //linux or unix
    return (os.indexOf( "nix" ) >=0 || os.indexOf( "nux" ) >=0);
}

private void handleUpdateVideosPosition(HttpServletRequest request,
    HttpServletResponse response, HttpSession session, String json)
    throws IOException {
    UpdateVideosPositionRequest updateVideosPositionRequest = new Gson()

```

```
.fromJson(json, UpdateVideosPositionRequest.class);

int projectId = getProjectIdFromSessionAttributes(session);
DatabaseApi.setAllVideoPoolPositionsToNull(projectId);

int numberOfVideos = updateVideosPositionRequest.arguments.videos.length;
for (int videoIndex = 0; videoIndex < numberOfVideos; ++videoIndex) {
    String videoName = updateVideosPositionRequest.arguments.videos[videoIndex].vide
o;

    int videoId = getVideoIdFromSessionAttributes(session, videoName);
    int position = updateVideosPositionRequest.arguments.videos[videoIndex].position
;

    DatabaseApi.setVideoPoolPosition(videoId, position);
}

private void handleUpdateTimelinePosition(HttpServletRequest request,
    HttpServletResponse response, HttpSession session, String json)
    throws IOException {
    UpdateTimelinePositionRequest updateTimelinePositionRequest = new Gson()
        .fromJson(json, UpdateTimelinePositionRequest.class);

    int projectId = getProjectIdFromSessionAttributes(session);
    DatabaseApi.setAllVideoTimelinePositionsToNull(projectId);

    int numberOfVideos = updateTimelinePositionRequest.arguments.videos.length;
    for (int videoIndex = 0; videoIndex < numberOfVideos; ++videoIndex) {
        String videoName = updateTimelinePositionRequest.arguments.videos[videoIndex].vi
deo;

        int videoId = getVideoIdFromSessionAttributes(session, videoName);
        int position = updateTimelinePositionRequest.arguments.videos[videoIndex].positi
on;

        DatabaseApi.setTimelinePosition(videoId, position);
    }
}

private void handleGetVideoInformation(HttpServletRequest request,
    HttpServletResponse response, HttpSession session, String json)
    throws IOException {
    int projectId = getProjectIdFromSessionAttributes(session);
    String videoString = S3Api.getVideoInformation(projectId);
    response.setContentType("application/json; charset=utf-8");
    PrintWriter out = response.getWriter();
    out.println(videoString);
    out.close();
}
}
```

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src/com/readytalk/olive/util/Attribute.java

```
package com.readytalk.olive.util;

public enum Attribute {
    IS_AUTHORIZED, USERNAME, PASSWORD, EDIT_SUCCESSFULLY, ADD_SUCCESSFULLY, PROJECT_NAME, PA
    SSWORDS_MATCH, IS_SAFE, EMAIL, NAME, SECURITY_QUESTION, SECURITY_ANSWER, IS_CORRECT
}
```

```
package com.readytalk.olive.util;

public class InvalidFileSizeException extends Exception {

    // Created using Eclipse's "Add generated serial version ID" refactoring.
    private static final long serialVersionUID = 1699131254533294330L;

    public InvalidFileSizeException() {
        // TODO Auto-generated constructor stub
    }

    public InvalidFileSizeException(String message) {
        super(message);
        // TODO Auto-generated constructor stub
    }

    public InvalidFileSizeException(Throwable cause) {
        super(cause);
        // TODO Auto-generated constructor stub
    }

    public InvalidFileSizeException(String message, Throwable cause) {
        super(message, cause);
        // TODO Auto-generated constructor stub
    }
}
```



```
/*
-----
Edit account page
-----
*/
#edit-account-container {
    padding: 5%;
}

#edit-account-container h2 {
    margin: .75em 0;
}
```

```
/*
-----
Editor page
-----
*/
#videos-container {
    position: absolute;
    top: 0px;
    right: 70%;
    bottom: 150px;
    left: 0px;
    text-align: center;
    /* 100% - (video width) - (2 x (sum of padding, border, margin)) */
}

#videos-title {
    position: absolute;
    top: 0%;
    right: 0%;
    bottom: 10%;
    left: 0%;
    margin: 5px;
}

#videos-controls {
    position: absolute;
    top: 10%;
    right: 0%;
    bottom: 20%;
    left: 0%;
    border-top: 1px solid gray;
    border-right: 1px solid gray;
    border-bottom: 0px solid gray; /* different */
    border-left: 1px solid gray;
}

#videos {
    position: absolute;
    top: 20%;
    right: 0%;
    bottom: 0%;
    left: 0%;
    text-align: left;
    border: 1px solid gray;
    overflow: auto;
}

.video-container {
    display: block;
    float: left;
    height: 125px;
    width: 100px;
    margin: 5px;
    padding: 5px;
    border: 1px solid green;
    background-color: #FFFFFFE;
    text-align: center;
    text-overflow: ellipsis; /* Does not work with spans */
    overflow: hidden; /* Temporary solution to text-overflow not working */
}

.video-icon {
    display: block;
```

```
border: 1px solid gray;
width: 50px;
height: 50px;
margin-left: auto;
margin-right: auto;
}

#player-div {
    position: absolute;
    top: 0px;
    right: 0px;
    bottom: 150px;
    left: 30%;
    /* A bit smaller than #videos-container's right edge (compensate for border, etc. */
    border: 1px solid gray;
}

#player-container {
    position: absolute;
    top: 0%;
    right: 0%;
    bottom: 10%;
    left: 0%;
}

#player-controls {
    position: absolute;
    bottom: 0%;
    left: 0%;
    right: 0%;
    height: 10%;
}

video {
    float: right;
    width: 100%;
    height: 100%;
}

#timeline {
    position: absolute;
    right: 200px;
    bottom: 0px;
    left: 0px;
    height: 150px; /* Larger than height of .video-container */
    border: 1px solid gray;
    overflow-x: auto;
    /*text-align: center;*/
}
/*
#timeline-background-text {
    font-size: 100px;
    color: #eeeeee;
    position: relative;
    top: 40%;
}*/

#tick-anchor {
    position: absolute;
    top: 50%;
    height: 0px;
    width: 100%;
    /*border-top: 1px solid green;*/
```

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WebContent/css/editor.css

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```
}  
  
#export {  
  position: absolute;  
  right: 0px;  
  bottom: 0px;  
}
```

```
/*
-----
Login page
-----
*/
#splash-container {
    position: absolute;
    top: 0%;
    right: 50%;
    bottom: 0%;
    left: 0%;
    padding: 10% 10% 10% 10%;
}

#splash-image {
    float: right;
    width: 379px;
    height: 145px;
}

#login-form-container {
    position: absolute;
    top: 0%;
    right: 0%;
    bottom: 0%;
    left: 50%;
    padding: 10% 10% 10% 10%;
}

#login-form {
}
```

```
@charset "UTF-8";

/* For HTML4 defaults, see: http://www.w3.org/TR/CSS2/sample.html */ /*
-----
HTML elements
-----
*/
body {
/* The default font-size is 16px, but this makes the math easier. For
* example, to set the size of the 'p' element to 16px, set it to 160%.
* To set the size of the 'h1' element to 32px, set it to 320%. Why not just
* set the 'p' element to 16px and the 'h1' element to 32px? Because users
* who want to resize the text on the page won't be able to because the size
* is fixed. It's better to express font-size in terms of percentages, and
* this is a neat way to do that.
*/
font-size: 100%;
line-height: 20px;
font-family: Helvetica, Arial, sans-serif;
text-align: left;
/*background-color: #edf4e6;*/
/* A lightened version of the Olive color */
}

h1,h2,h3,h4,h5,h6 {
color: #92bd6a; /* The Olive color */
font-family: Calibri, Helvetica, Arial, sans-serif;
}

h1 {
font-size: 320%; /* 32px */ /*margin: .67em 0;*/
padding: 20px;
}

h2 {
font-size: 240%; /* 24px */ /*margin: .75em 0;*/
}

h3 {
font-size: 187.2%; /* 18.72px */ /*margin: .83em 0;*/
}

h4 {
font-size: 160%; /* 16px */ /*margin: 1.12em 0;*/
}

h5 {
font-size: 132.8%; /* 13.28px */ /*margin: 1.5em 0;*/
}

h6 {
font-size: 120%; /* 12px */ /*margin: 1.67em 0;*/
}

p {
font-size: 120%; /* 12px */
margin: 1.12em 0;
line-height: 1.2em;
}

a:link {
color: green;
}

a:visited {
color: green;
}

a:hover {
color: #92bd6a;
}

table {
border-spacing: 40px 10px;
margin-left: 100px;
padding: 10px;
}

tr,td {
padding: 0px 10px 0px 10px;
}

button { /*background-color: #edf4e6;*/
/* A lightened version of the Olive color */
}

ul {
list-style-type: none;
}

strong {
font-weight: bolder;
}

small {
font-size: .83em;
}

/*
-----
General styling
-----
*/
.clear {
clear: both;
}

.center-text {
text-align: center
}

.center-block {
margin-left: auto;
margin-right: auto;
}

.warning {
color: red;
text-decoration: underline;
cursor: pointer;
}

.link {
color: blue;
text-decoration:underline;
cursor: pointer;
}
```

```
}

.hidden {
    display: none;
}

/*
-----
Common elements to every page
-----
*/

#header {
    position: absolute;
    top: 0px;
    right: 0px;
    left: 0px;
    height: 7.5%;
    border-bottom: 2px solid #888888;
    min-width: 1000px;
}

#header-left {
    float: left;
    text-align: left;
    margin-left: 1%;
}

#header-right {
    float: right;
    text-align: right;
    margin-right: 1%;
}

#main {
    position: absolute;
    top: 7.5%;
    right: 0px;
    bottom: 5%;
    left: 0px;
    min-width: 1000px;
}

#footer {
    position: absolute;
    right: 0px;
    bottom: 0px;
    left: 0px;
    height: 5%;
    border-top: 2px solid #888888;
    min-width: 1000px;
}

#footer-left {
    float: left;
    text-align: left;
    margin-left: 1%;
}

#footer-right {
    float: right;
    text-align: right;
    margin-right: 1%;
}
```

```
/*
-----
jQuery modal dialog
-----
*/

label,input {
    display: block;
}

input.text {
    margin-bottom: 12px;
    width: 95%;
    padding: .4em;
}

fieldset {
    padding: 0;
    border: 0;
    margin-top: 25px;
}

div#users-contain {
    width: 350px;
    margin: 20px 0;
}

div#users-contain table {
    margin: 1em 0;
    border-collapse: collapse;
    width: 100%;
}

div#users-contain table td,div#users-contain table th {
    border: 1px solid #eee;
    padding: .6em 10px;
    text-align: left;
}

.ui-dialog .ui-state-error {
    padding: .3em;
}

.validateTips {
    border: 1px solid transparent;
    padding: 0.3em;
}
```

```
/*
-----
Projects page
-----
*/
#projects-container {
    position: absolute;
    top: 0%;
    right: 25%;
    bottom: 0%;
    left: 25%;
}

#projects-title {
    position: absolute;
    top: 0%;
    right: 0%;
    bottom: 15%;
    left: 0%;
}

#projects-controls {
    position: absolute;
    top: 15%;
    right: 0%;
    bottom: 20%;
    left: 0%;
}

#project-clips {
    position: absolute;
    top: 20%;
    right: 0%;
    bottom: 0%;
    left: 0%;
    overflow: auto;
}

.project-icon-container {
    float: left;
    width: 100px;
    padding-bottom: 40px;
    padding-right: 40px;
}

#project-clips div img {
    display: block;
    padding: 5px;
    border: 1px solid #000000;
    width: 100px;
    height: 100px;
    border: 1px solid #000000;
}
```

```
@charset "UTF-8";

/*
This file resets the default browser behavior so the web page is consistent
across all browsers.

Modified from: http://html5boilerplate.com/
To revert, see: http://www.w3.org/TR/CSS2/sample.html
*/ /*
HTML5 â\234° Boilerplate

style.css contains a reset, font normalization and some base styles.

credit is left where credit is due.
much inspiration was taken from these projects:
yui.yahooapis.com/2.8.1/build/base/base.css
camendesign.com/design/
praegnanz.de/weblog/htmlcssjs-kickstart
*/ /*
html5doctor.com Reset Stylesheet (Eric Meyer's Reset Reloaded + HTML5 baseline)
v1.4 9-07-27 | Authors: Eric Meyer & Richard Clark
html5doctor.com/html-5-reset-stylesheet/
*/
html,body,div,span,object,iframe,h1,h2,h3,h4,h5,h6,p,blockquote,pre,abbr,address,cite,code,del,
el,dfn,em,img,ins,kbd,q,samp,small,strong,sub,sup,var,b,i,dl,dt,dd,ol,ul,li,fieldset,form,la
bel,legend,table,caption,tbody,tfoot,thead,tr,th,td,article,aside,canvas,details,figcaption,
figure,footer,header,hgroup,menu,nav,section,summary,time,mark,audio,video
{
margin: 0;
padding: 0;
border: 0;
outline: 0;
/*font-size: ; */
vertical-align: baseline;
background: transparent;
}

article,aside,details,figcaption,figure,footer,header,hgroup,menu,nav,section
{
display: block;
}

nav ul {
list-style: none;
}

blockquote,q {
quotes: none;
}

blockquote:before,blockquote:after,q:before,q:after {
content: '';
content: none;
}

a {
margin: 0;
padding: 0;
font-size: ;
vertical-align: baseline;
background: transparent;
}
```

```
ins {
background-color: #ff9;
color: # text-decoration : none;
}

mark {
background-color: #ff9;
color: # font-style : italic;
font-weight: bold;
}

del {
text-decoration: line-through;
}

abbr[title],dfn[title] {
border-bottom: 1px dotted;
cursor: help;
}

/* tables still need cellspacing="0" in the markup */
table {
border-collapse: collapse;
border-spacing: 0;
}

hr {
display: block;
height: 1px;
border: 0;
border-top: 1px solid #ccc;
margin: 1em 0;
padding: 0;
}

input,select {
vertical-align: middle;
}
```



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WebContent/META-INF/context.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<Context antiJARLocking="true" path="/olive">
  <Resource name="jdbc/OliveData" auth="Container" type="javax.sql.DataSource"
    username="olive" password="Xsbpdrhr" driverClassName="com.mysql.jdbc.Driver"
    url="jdbc:mysql://localhost:3306/" maxActive="15" maxIdle="3" />
</Context>
```

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WebContent/temp/maintainer.txt

This file exists purely to keep its parent directly under source control.

```
/*
 * This is Olive's JavaScript file for account.js only.
 */

var deleteAccountDialogContext; // TODO Remove this global variable.

// Called once the DOM is ready but before the images, etc. load.
// Failsafe jQuery code modified from: http://api.jquery.com/jquery/#jQuery3
jQuery(function($) {
    attachDeleteAccountHandlers();
});

function attachDeleteAccountHandlers() {
    $('#delete-account').click(function () {
        $('#confirm-delete-account-dialog').dialog('open');
        deleteAccountDialogContext = this; // This is a global variable.
    });

    $('#confirm-delete-account-dialog').dialog({
        autoOpen: false,
        resizable: false,
        height: 275,
        modal: true,
        buttons: {
            'Delete': function () {
                deleteAccount.call(deleteAccountDialogContext); // We don't want the context
                // to be the dialog element, but rather the element that triggered it.
                $(this).dialog('close');
            },
            'Cancel': function () {
                $(this).dialog('close');
            }
        }
    });
}

// Perform a deleteAccount request
function deleteAccount() {
    var requestData = '{'
        + '"command" : "deleteAccount",'
        + '"arguments" : {'
        + '"account" : "' + $(this).attr('id') + '" '
        + '},'
        + '}'
    ;

    makeAjaxPostRequest(requestData, function (responseData) {logout(); }, null); // Defin
    // ed in "/olive/scripts/master.js".
}
```

```
/*
 * This is Olive's JavaScript file for editor.jsp only.
 * Dependencies: "/olive/scripts/master.js"
 */

// Called once the DOM is ready but before the images, etc. load.
// Failsafe jQuery code modified from: http://api.jquery.com/jquery/#jQuery3
jQuery(function($) {
    attachDeleteVideoHandlers();
    attachVideoMenuHandlers();
    attachVideoClickHandlers();
    attachPlayerHandlers();
    enableDragAndDrop();
    //attachPublishButtonHandler();
    getVideoInformation();
});

function attachDeleteVideoHandlers() {
    var videoToDelete;

    $('.delete-video').click(function () {
        $('#confirm-delete-video-dialog').dialog('open');
        videoToDelete = this;
    });

    $('#confirm-delete-video-dialog').dialog({
        autoOpen: false,
        resizable: false,
        height: 275,
        modal: true,
        buttons: {
            'Delete': function () {
                deleteVideo($(videoToDelete).attr('id')); // We don't want the context to
                // be the dialog element, but rather the element that triggered it.
                $(this).dialog('close');
            },
            Cancel: function () {
                $(this).dialog('close');
            }
        }
    });
}

function attachVideoMenuHandlers() {
    $('#upload-new-button').click(function () {
        openNewVideoForm();
    });

    attachSplitHandlers();
    $('.split-link').click(function() {
        $('#video-name').val($(this).attr('id'))
        .change(); // Prefill in the value in the split dialog.
        $('#split-video-dialog-form').dialog('open');
    });
}

function attachPublishButtonHandler(){
    $('#export-button').click(function(){
        $('#confirm-splice').dialog('open');
    });
    $('#confirm-splice').dialog({
```

```
    autoOpen: false,
    resizable: false,
    height: 275,
    modal: true,
    buttons: {
        'Yes': function () {
            combineVideos();
            $(this).dialog('close');
        },
        'No': function () {
            $(this).dialog('close');
        }
    }
});
}

function combineVideos(){
    var requestData = '{'
    +   '"command": "combineVideos",'
    +   '"arguments" : {'
    +       '}'
    +   '}'
    makeAjaxPostRequest(requestData, null, null);
}

function attachVideoClickHandlers() {
    $('.video-container').click(function () {
        if ($(this).data('isSelected')) {
            unselect(this);
        } else {
            // First, unselect all
            $('.video-container').each(function () {
                unselect(this); // 'this' is a different 'this' than outside .each()
            });
            // Then, select this
            select(this);
        }
    });
}

function makeSelectionVisible(element) {
    if ($(element).data('isSelected')) {
        $(element).css( {
            'background-color': '#edf4e6' // A lighter version of the Olive color
        });
        updatePlayerWithNewElement(element);
    } else {
        $(element).css( {
            'background-color': ''
        });
        updatePlayerWithNoElements();
    }
}

function select(element) {
    $(element).data('isSelected', true);
    makeSelectionVisible(element);
    addToSelected($(element).attr('id'));
}

function unselect(element) {
    $(element).data('isSelected', false);
```

## WebContent/scripts/editor.js

```

    makeSelectionVisible(element);
    removeFromSelected($(element).attr('id'));
}

//Perform an addToSelected request
function addToSelected(id) {
    var videoName = id; // TODO This works by definition (but the definition should probably
    change).
    var requestData = '{'
        + "command" : "addToSelected",'
        + "arguments" : {'
        + "video" : "" + videoName + "'
        + '}'
        + '>';
    makeAjaxPostRequest(requestData, null, null); // Defined in "/olive/scripts/master.js"
}

// Perform a removeFromSelected request
function removeFromSelected(id) {
    var videoName = id; // TODO This works by definition (but the definition should probably
    change).
    var requestData = '{'
        + "command" : "removeFromSelected",'
        + "arguments" : {'
        + "video" : "" + videoName + "'
        + '}'
        + '>';
    makeAjaxPostRequest(requestData, null, null); // Defined in "/olive/scripts/master.js"
}

// Video tag codecs: http://www.webmonkey.com/2010/02/embed_audio_and_video_in_html_5_pages/
// Also: http://stackoverflow.com/questions/2425218/html5-video-tag-in-chrome-wmv
function updatePlayerWithNewElement(element) {
    $('#player-video').attr('poster', $(element).data('icon'));
    $('#player-video').append(
        '<source src="' + $(element).data('url')
        + " type='video/ogg; codecs=theora,vorbis' // TODO Get this from the da
        + " />');
    }

function updatePlayerWithNoElements() {
    $('#player-video source').remove();
    $('#player-video').removeAttr('poster');
}

// Modified from: http://dev.opera.com/articles/view/everything-you-need-to-know-about-html5
-video-and-audio/
function attachPlayerHandlers() {
    var video = $('#player-video').get(0); // Use jQuery to find the element, but strip off
    the jQuery wrapper.

    $('#videos-playpause').click(function () {
        if (video.paused || video.ended) {
            video.play();
        } else {
            video.pause();
        }
    });

    $('#videos-volume-up').click(function () {

```

```

        if (video.volume < 0.85) { // Account for rounding errors
            video.volume += 0.1;
        } else {
            video.volume = 1.0; // Don't allow rounding errors
            $('#videos-volume-up').attr('disabled', 'disabled'); // Disable
        }
        $('#videos-volume-down').removeAttr('disabled'); // Enable
    });

    $('#videos-volume-down').click(function () {
        if (video.volume > 0.15) { // Account for rounding errors
            video.volume -= 0.1;
        } else {
            video.volume = 0.0; // Don't allow rounding errors
            $('#videos-volume-down').attr('disabled', 'disabled'); // Disable
        }
        $('#videos-volume-up').removeAttr('disabled'); // Enable
    });
}

function enableDragAndDrop() {
    $('#videos').sortable({
        appendTo: 'body',
        connectWith: '#timeline',
        helper: 'clone',
        items: 'span',
        revert: true,
        scroll: false,
        tolerance: 'pointer',
        update: function (event, ui) {
            updateVideosPosition();
        }
    });

    $('#timeline').sortable({
        appendTo: 'body',
        connectWith: '#videos',
        helper: 'clone',
        items: 'span',
        revert: true,
        scroll: false,
        tolerance: 'pointer',
        update: function (event, ui) {
            enableOrDisableExportButton();
            updateTimelinePosition();
        }
    });
}

// Perform an update<command>Position request
function updatePosition(command, collectionItems) {
    var requestData = '{'
        + "command" : "" + command + ","
        + "arguments" : {'
        + "videos" : [';

    if ($collectionItems.length > 0) {
        $collectionItems.each(function(index) {
            requestData += '{'
                + "video" : "" + $(this).attr('id') + ","
                + "position" : "" + index
                + '},'; // This will result in an extra comma.
        });
    }
}

```

```

        // Strip off the extra comma.
        requestData = requestData.substring(0, requestData.length - 1);
    }

    requestData += '}}';

    makeAjaxPostRequest(requestData, null, null);    // Defined in "/olive/scripts/master.js"
}

// Perform an updateVideosPosition request
function updateVideosPosition() {
    updatePosition('updateVideosPosition', '#videos span');
}

// Perform an updateTimelinePosition request
function updateTimelinePosition() {
    updatePosition('updateTimelinePosition', '#timeline span');
}

// Perform a deleteVideo request
function deleteVideo(videoName) {
    var requestData = '{'
        +   '"command" : "deleteVideo",'
        +   '"arguments" : {'
        +       '"video" : "' + videoName + '"
        +   '},'
        + '}'

    makeAjaxPostRequest(requestData, function (responseData) {location.reload();}, null);
    // Defined in "/olive/scripts/master.js".
}

//Perform a splitVideo request
function splitVideo(videoName, splitTimeInSeconds) {
    var requestData = '{'
        +   '"command" : "splitVideo",'
        +   '"arguments" : {'
        +       '"video" : "' + videoName + '"
        +       '"splitTimeInSeconds" : ' + splitTimeInSeconds + '
        +   '},'
        + '}'

    makeAjaxPostRequest(requestData, function (responseData) {location.reload(); }, null);
    // Defined in "/olive/scripts/master.js".
}

function attachSplitHandlers() {
    var videoName = $('#video-name'), splitTimeInSeconds = $('#split-time-in-seconds'), allFields = $(
        []).add(videoName).add(splitTimeInSeconds), tips = $('>.validateTips');

    function updateTips(t) {
        tips.text(t).addClass("ui-state-highlight");
        setTimeout(function() {
            tips.removeClass("ui-state-highlight", 1500);
        }, 500);
    }

    function checkLength(o, n, min, max) {
        if (o.val().length > max || o.val().length < min) {
            o.addClass("ui-state-error");
            updateTips("Length of " + n + " must be between " + min + " and "
                + max + ".");
        }
    }

```

```

        return false;
    } else {
        return true;
    }
}

function checkRegexp(o, regexp, n) {
    if (!(regexp.test(o.val()))) {
        o.addClass("ui-state-error");
        updateTips(n);
        return false;
    } else {
        return true;
    }
}

function checkCondition(o, condition, n) {
    if (!condition) {
        o.addClass("ui-state-error");
        updateTips(n);
        return false;
    } else {
        return true;
    }
}

$('#split-video-dialog-form').dialog({
    autoOpen : false,
    height : 325,
    width : 300,
    modal : true,
    buttons : {
        'Split video' : function() {
            var bValid = true;
            allFields.removeClass('ui-state-error');

            bValid = bValid
                && checkLength(videoName,
                    'video-name', 1, 32);

            bValid = bValid
                && checkLength(splitTimeInSeconds, 'split-time-in-seconds',
                    0, 14400);

            bValid = bValid
                && checkRegexp(videoName,
                    /^[0-9a-zA-Z]+$/i,
                    'Video name may consist of a-z, 0-9; and must begin with a letter.');
```

```
        window.location.reload(true);
        $(this).dialog('close');
    }
},
close : function() {
    allFields.val('').removeClass('ui-state-error');
}
});
}

function getVideoInformation() {
    var requestData = '{'
    +   "command" : "getVideoInformation"
    +   '}'
    makeAjaxPostRequest(requestData, function (responseData) {
        var poolPositions = [];
        var timelinePositions = [];
        for (var i = 0; i < responseData.length; ++i) {
            var element = $('#'+ responseData[i].name).get(0); // Strip off jQuery wrapper.
            $(element).data('url', responseData[i].url);
            $(element).data('icon', responseData[i].icon);

            // Modified from: http://stackoverflow.com/questions/600700/jquery-javascript-re
            // ordering-rows/617349#617349
            if (responseData[i].poolPosition != -1) {
                $(element).data('poolPosition', responseData[i].poolPosition);
                poolPositions[responseData[i].poolPosition] = element; // Sort
            }
            if (responseData[i].timelinePosition != -1) {
                $(element).data('timelinePosition', responseData[i].timelinePosition);
                timelinePositions[responseData[i].timelinePosition] = element; // Sort
            }

            $(element).data('isSelected', responseData[i].isSelected);
            makeSelectionVisible(element);
        }
        // Append in the sorted order
        for (var poolIndex = 0; poolIndex < poolPositions.length; ++poolIndex) {
            $('#videos').append(poolPositions[poolIndex]);
        }
        for (var timelineIndex = 0; timelineIndex < timelinePositions.length; ++timelineIndex) {
            $('#timeline').append(timelinePositions[timelineIndex]);
        }

        enableOrDisableExportButton();
    }, null); // Defined in "/olive/scripts/master.js".
}

function enableOrDisableExportButton() {
    if ($('#timeline').sortable('toArray').length > 0){
        $('#export-button').removeAttr('disabled');
    } else {
        $('#export-button').attr('disabled', 'disabled');
    }
}

function openNewVideoForm() {
    window.open("new-video-form.jsp", "videoUploadForm",
        "menubar=no,width=320,height=200,toolbar=no");
}
```

## WebContent/scripts/index.js

```
/*
 * This is Olive's JavaScript file for index.jsp only.
 */

// Called once the DOM is ready but before the images, etc. load.
// Failsafe jQuery code modified from: http://api.jquery.com/jquery/#jQuery3
jQuery(function($) {
    attachRegistrationHandlers();
});

function attachRegistrationHandlers() {
    var name = $("#register-name"), email = $("#register-email"), password = $("#register-password"), cPassword = $("#confirm-register-password"), allFields = $([
    ]).add(name).add(email).add(password).add(cPassword), tips = $(".validateTips");

    function updateTips(t) {
        tips.text(t).addClass("ui-state-highlight");
        setTimeout(function() {
            tips.removeClass("ui-state-highlight", 1500);
        }, 500);
    }

    function checkLength(o, n, min, max) {
        if (o.val().length > max || o.val().length < min) {
            o.addClass("ui-state-error");
            updateTips("Length of " + n + " must be between " + min + " and " + max + ".");
            return false;
        } else {
            return true;
        }
    }

    function checkRegexp(o, regexp, n) {
        if (!(regexp.test(o.val()))) {
            o.addClass("ui-state-error");
            updateTips(n);
            return false;
        } else {
            return true;
        }
    }

    function checkPasswordsEqual(o,p,n){
        if(!(o.val() == p.val())){
            o.addClass("ui-state-error");
            updateTips(n);
            return false;
        } else {
            return true;
        }
    }

    $("#dialog-form").dialog({
        autoOpen : false,
        height : 525,
        width : 400,
        modal : true,
        buttons : {
            "Create an account" : function() {
                var bValid = true;
                allFields.removeClass("ui-state-error");
```

```
                bValid = bValid
                    && checkLength(name,
                        "register-username", 3, 16);

                bValid = bValid
                    && checkLength(email, "register-email",
                        6, 64);

                bValid = bValid
                    && checkLength(password,
                        "register-password", 5, 128);

                bValid = bValid
                    && checkRegexp(name,
                        /^[a-z]([0-9a-z_])+$/i,
                        "Username may consist of a-z, 0-9, underscores; and must begin with a letter.");
                // From jquery.validate.js (by joern),
                // contributed by Scott Gonzalez:
                // http://projects.scottsplayground.com/email_address_validation/
                bValid = bValid
                    && checkRegexp(
                        email,
                        /^((([a-z]|\d|!#$%&'*\+\/=?^_`{|}~)~[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])+(.[a-z]|\d|!#$%&'*\+\/=?^_`{|}~)~[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])*)|((\x22)((\x20|\x09)*(\x0d\x0a))?(\x20|\x09)+)?(([\x01-\x08\x0b\x0c\x0e-\x1f\x7f]|\x21|[\x23-\x5b]|[\x5d-\x7e]|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])|(\[[\x01-\x09\x0b\x0c\x0d-\x7f]|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])|((\x22|\x09)*(\x0d\x0a))?(\x20|\x09)+)?(\x22))|((([a-z]|\d|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])|(([\x01-\x08\x0b\x0c\x0e-\x1f\x7f]|\x21|[\x23-\x5b]|[\x5d-\x7e]|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])|(\[[\x01-\x09\x0b\x0c\x0d-\x7f]|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])|((\x22|\x09)*(\x0d\x0a))?(\x20|\x09)+)?(\x22))|@)(([a-z]|\d|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])|(([\x01-\x08\x0b\x0c\x0e-\x1f\x7f]|\x21|[\x23-\x5b]|[\x5d-\x7e]|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])|(\[[\x01-\x09\x0b\x0c\x0d-\x7f]|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])|((\x22|\x09)*(\x0d\x0a))?(\x20|\x09)+)?(\x22))|_|~|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])|([a-z]|\d|_|~|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])*)|(a-zA-Z\d[-|_|~|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])*([a-z]|\d|_|~|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF]))\.?$/i,
                        "Email should look like: example@example.com");

                bValid = bValid
                    && checkRegexp(password,
                        /^([0-9a-zA-Z])+$/i,
                        "Password field only allow : a-z 0-9");

                bValid = bValid
                    && checkPasswordsEqual(password,
                        cPassword,
                        "Passwords are not equal");

                if (bValid) {
                    $("#register-form").submit();
                    $(this).dialog("close");
                }
            },
            Cancel : function() {
                window.location.reload(true);
                $(this).dialog("close");
            }
        },
        close : function() {
            allFields.val("").removeClass("ui-state-error");
        }
    });

    $("#create-user").click(function() {
        $("#dialog-form").dialog("open");
    });
}
```



```
/*
 * This is Olive's master JavaScript file for every JSP page.
 */

// Called once the DOM is ready but before the images, etc. load.
// Failsafe jQuery code modified from: http://api.jquery.com/jquery/#jQuery3
jQuery(function($) {
    includeHeader(); // TODO Fix for index.jsp (which is different)
    includeFooter();
});

function includeHeader() {
    $.get('/olive/header.jsp', function(data) {
        $('#header').append($(data));
        attachDialogToLink('help');
    });
}

function includeFooter() {
    $.get('/olive/footer.jsp', function(data) {
        $('#footer').append($(data));
        attachDialogToLink('about');
    });
}

function attachDialogToLink(linkName) {
    $('#'+ linkName + '-dialog').dialog( {
        autoOpen : false
    });

    $('#'+ linkName + '-dialog-opener').click(function() {
        $('#'+ linkName + '-dialog').dialog('open');
        return false;
    });
}

function openHelpWindow() {
    window.open("help.jsp", "HelpWindow",
        "menubar=no,width=500,height=500,toolbar=no");
}

function logout() {
    // See: http://stackoverflow.com/questions/503093/how-can-i-make-a-redirect-page-in-jque
ry
    window.location.replace('logout.jsp');
}

function makeAjaxPostRequest(requestData, onSuccess, onError) {
    // Domain: http://stackoverflow.com/questions/2300771/jquery-domain-get-url
    // E.g. 'http:' + '//' + 'olive.readytalk.com' + '/olive/OliveServlet'
    var postUrl = location.protocol + '//' + location.host + '/olive/OliveServlet';

    // Encoding: http://stackoverflow.com/questions/26620/how-to-set-encoding-in-getjson-jqu
ery
    $.ajax({
        type: 'POST',
        url: postUrl,
        async: true,
        contentType: 'application/json; charset=utf-8',
        data: requestData,
        success: function (responseData) {
            if (onSuccess) {
                onSuccess(responseData);
            }
        },
        error: function (XMLHttpRequest, textStatus, errorThrown) {
            if (onError) {
                onError(XMLHttpRequest, textStatus, errorThrown);
            }
        }
    });
}
```

```
    },
    error: function (XMLHttpRequest, textStatus, errorThrown) {
        if (onError) {
            onError(XMLHttpRequest, textStatus, errorThrown);
        }
    }
});
}
```

## WebContent/scripts/projects.js

```

/*
 * This is Olive's JavaScript file for projects.jsp only.
 * Dependencies: "/olive/scripts/master.js"
 */

var deleteProjectDialogContext; // TODO Remove this global variable.

// Called once the DOM is ready but before the images, etc. load.
// Failsafe jQuery code modified from: http://api.jquery.com/jquery/#jQuery3
jQuery(function($) {
    attachDeleteProjectHandlers();
    //enableDragAndDrop(); // Still looks funny. CSS work needed.
    //getProjectInformation(); // Not yet implemented on the server.
});

function attachDeleteProjectHandlers() {
    $('#delete-project').click(function () {
        $('#confirm-delete-project-dialog').dialog('open');
        deleteProjectDialogContext = this; // This is a global variable.
    });

    $('#confirm-delete-project-dialog').dialog({
        autoOpen: false,
        resizable: false,
        height: 275,
        modal: true,
        buttons: {
            'Delete': function () {
                deleteProject.call(deleteProjectDialogContext); // We don't want the context
                // to be the dialog element, but rather the element that triggered it.
                $(this).dialog('close');
            },
            Cancel: function () {
                $(this).dialog('close');
            }
        }
    });
}

function enableDragAndDrop() {
    $('#project-clips').sortable({
        appendTo: 'body',
        helper: 'clone',
        items: 'div',
        revert: true,
        scroll: false,
        tolerance: 'pointer',
        update: function(event, ui) {
            updateProjectsPosition();
        }
    });
}

//Perform an update<command>Position request
function updatePosition(command, collectionItems) {
    var requestData = '{'
    + '"command" : "' + command + '", '
    + '"arguments" : {'
    + '"projects" : [';

    if ($(collectionItems).length > 0) {
        $(collectionItems).each(function(index) {
            requestData += '{'
            + '"project" : "' + $(this).attr('id') + '", '
            + '"position" : ' + index
            + '},' + ' // This will result in an extra comma.
        });

        // Strip off the extra comma.
        requestData = requestData.substring(0, requestData.length - 1);
    }

    requestData += '}]';

    makeAjaxPostRequest(requestData, null, null); // Defined in "/olive/scripts/master.js"
}

//Perform an updateVideosPosition request
function updateProjectsPosition() {
    updatePosition('updateProjectsPosition', '#project-clips div');
}

// Perform a deleteProject request
function deleteProject() {
    var requestData = '{'
    + '"command" : "deleteProject", '
    + '"arguments" : {'
    + '"project" : "' + $(this).attr('id') + '" '
    + '},' + '
    + '}' + ' ';

    makeAjaxPostRequest(requestData, function (responseData) {location.reload(); }, null);
    // Defined in "/olive/scripts/master.js".
}

function openNewProjectForm() {
    window.open("new-project-form.jsp", "newProjectForm",
        "menubar=no,width=320,height=200,toolbar=no");
}

function getProjectInformation() {
    var requestData = '{'
    + '"command" : "getProjectInformation" '
    + '}' + ' ';

    makeAjaxPostRequest(requestData, function (responseData) {
        var poolPositions = [];
        for (var i = 0; i < responseData.length; ++i) {
            var element = $('#'+ responseData[i].name).get(0); // Strip off jQuery wrapper.
            $(element).data('icon', responseData[i].icon);

            // Modified from: http://stackoverflow.com/questions/600700/jquery-javascript-re
            // ordering-rows/617349#617349
            if (responseData[i].poolPosition != -1) {
                $(element).data('poolPosition', responseData[i].poolPosition);
                poolPositions[responseData[i].poolPosition] = element; // Sort
            }
        }
        // Append in the sorted order
        for (var poolIndex = 0; poolIndex < poolPositions.length; ++poolIndex) {
            $('#project-clips').append(poolPositions[poolIndex]);
        }
    }, null); // Defined in "/olive/scripts/master.js".
}

```

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE sun-web-app PUBLIC "-//Sun Microsystems, Inc.//DTD Application Server 9.0 Servlet
2.5//EN" "http://www.sun.com/software/appserver/dtds/sun-web-app_2_5-0.dtd">
<sun-web-app error-url="">
  <context-root>/olive</context-root>
  <class-loader delegate="true" />
  <jsp-config>
    <property name="keepgenerated" value="true">
      <description>Keep a copy of the generated servlet class' java code.</description>
    </property>
  </jsp-config>
</sun-web-app>
```

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://java.sun.com/xml/ns/javaee" xmlns:web="http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd"
  xsi:schemaLocation="http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd"
  version="2.5">
  <servlet>
    <servlet-name>OliveServlet</servlet-name>
    <servlet-class>com.readytalk.olive.servlet.OliveServlet</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>OliveServlet</servlet-name>
    <url-pattern>/OliveServlet</url-pattern>
  </servlet-mapping>
  <session-config>
    <session-timeout>30</session-timeout>
  </session-config>
  <welcome-file-list>
    <welcome-file>index.jsp</welcome-file>
  </welcome-file-list>
  <resource-ref>
    <description>Database</description>
    <res-ref-name>jdbc/OliveData</res-ref-name>
    <res-type>javax.sql.DataSource</res-type>
    <res-auth>Container</res-auth>
  </resource-ref>
</web-app>
```

## WebContent/account.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@ page import="com.readytalk.olive.util.Attribute"%>
<!doctype html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Olive | The Online Video Editor</title>

<link rel="shortcut icon" href="/olive/images/olive.ico" />

<link rel="stylesheet" type="text/css" href="/olive/css/reset.css" />
<link rel="stylesheet" type="text/css"
    href="/olive/scripts/jquery-ui-1.8.9.custom/css/ui-lightness/jquery-ui-1.8.9.custom.css"
/>
<link rel="stylesheet" type="text/css" href="/olive/css/master.css" />
<link rel="stylesheet" type="text/css" href="/olive/css/account.css" />

<script src="/olive/scripts/jquery-1.5.min.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.9.custom/js/jquery-ui-1.8.9.custom.min.js"></script>
<script src="/olive/scripts/master.js"></script>
<script src="/olive/scripts/account.js"></script>
<script src="/olive/scripts/google-analytics.js"></script>
</head>
<body>
<%
    Boolean isAuthorized = (Boolean) session
        .getAttribute(Attribute.IS_AUTHORIZED.toString()); // Nasty cast
    if (isAuthorized == null) {
        response.sendRedirect("index.jsp");
    } else if (!isAuthorized) {
        response.sendRedirect("index.jsp");
    }

    Boolean editSuccessfully = (Boolean) session
        .getAttribute(Attribute.EDIT_SUCCESSFULLY.toString());
    Boolean passwordsMatch = (Boolean) session
        .getAttribute(Attribute.PASSWORDS_MATCH.toString());
    String editConfirmation;
    if (editSuccessfully == null) {
        editConfirmation = "";
    } else if (editSuccessfully) {
        editConfirmation = "Your information has been changed successfully.";
    } else {
        if (passwordsMatch == null) { // Not safe
            editConfirmation = "Invalid characters or length on one or more fields.";
        } else { // Safe, but differing passwords
            editConfirmation = "Passwords do not match.";
        }
    }
    session.removeAttribute(Attribute.EDIT_SUCCESSFULLY.toString());
    session.removeAttribute(Attribute.PASSWORDS_MATCH.toString());

    String username = (String) session.getAttribute(Attribute.USERNAME
        .toString());
    String name = (String) session.getAttribute(Attribute.NAME
        .toString());
    String email = (String) session.getAttribute(Attribute.EMAIL
        .toString());
    String password = (String) session.getAttribute(Attribute.PASSWORD
        .toString());
    String securityQuestion = (String) session
        .getAttribute(Attribute.SECURITY_QUESTION.toString());
```

```
        String securityAnswer = (String) session
            .getAttribute(Attribute.SECURITY_ANSWER.toString());
    %>
    <div id="header">
    <div id="header-left">
    <h1>Olive</h1>
    </div>
    <!-- end #header-left -->
    <div id="header-right">
    <div>Welcome, <%=username%>!&nbsp;<a href="logout.jsp">Logout</a></div>
    <div><strong><a href="projects.jsp">My Projects</a></strong>&nbsp;<span
        id="help-dialog-opener"><a href="">Help</a></span></div>
    </div>
    <!-- end #header-right --></div>
    <!-- end #header -->

    <div class="clear"></div>

    <div id="main">

    <div id="edit-account-container">
    <h2>Edit account information</h2>
    <form id="edit-account-form" action="OliveServlet" name="process"
        method="post">
    <p><label for="new-name">Name</label> <input type="text"
        name="new-name" id="new-name" value="<%=name%>" size="32"
        maxlength="32" /></p>
    <p><label for="new-email">Email</label> <input type="text"
        name="new-email" id="new-email" value="<%=email%>" size="32"
        maxlength="64" /></p>
    <p><label for="new-password">Password</label> <input type="password"
        name="new-password" id="new-password" value="<%=password%>" size="32"
        maxlength="128" /></p>
    <p><label for="confirm-new-password">Confirm password</label> <input
        type="password" name="confirm-new-password" id="confirm-new-password"
        value="<%=password%>" size="32" maxlength="128" /></p>
    <p><label for="security_question">Security Question</label> <input
        type="text" name="security_question" id="security_question"
        value="<%=securityQuestion%>" size="32" maxlength="128" /></p>
    <p><label for="security_answer">Security Answer</label> <input
        type="text" name="security_answer" id="security_question_answer"
        value="<%=securityAnswer%>" size="32" maxlength="128" /></p>
    <input type="hidden" name="FormName" value="EditUser"></input> <input
        type="submit" value="Update information" /><span><%=editConfirmation%></span></form>
    <p><small><a id="delete-account"
        class="warning delete-project">Delete account</a></small></p>
    </div>
    <!-- end #login-form-container --></div>
    <!-- end #main -->

    <div class="clear"></div>

    <div id="footer"></div>

    <!-- Everything below this line will be hidden and inserted in pop-ups. -->
    <div id="help-dialog" class="hidden" title="How to use Olive">
    <ul>
        <li>1. Create a new account.</li>
        <li>2. Create a new project.</li>
        <li>3. Upload your videos.</li>
        <li>4. Edit your videos.</li>
        <li>5. Export to your computer.</li>
    </ul>
```

</div>

```
<div id="confirm-delete-account-dialog" class="hidden" title="Warning!">
<p>Delete account? This will also delete the account's projects and
videos.</p>
</div>
```

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

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@ page import="com.readytalk.olive.logic.DatabaseApi"%>
<%@ page import="com.readytalk.olive.util.Attribute"%>
<!doctype html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Edit Project | Olive</title>

<link rel="shortcut icon" href="/olive/images/olive.ico">

<link rel="stylesheet" type="text/css" href="/olive/css/reset.css" />
<link rel="stylesheet" type="text/css"
    href="/olive/scripts/jquery-ui-1.8.9.custom/css/ui-lightness/jquery-ui-1.8.9.custom.css"
    />
<link rel="stylesheet" type="text/css" href="/olive/css/master.css" />
<link rel="stylesheet" type="text/css" href="/olive/css/editor.css" />

<script src="/olive/scripts/jquery-1.5.min.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.9.custom/js/jquery-ui-1.8.9.custom.min.js"></script>
<script src="/olive/scripts/master.js"></script>
<script src="/olive/scripts/editor.js"></script>
<script src="/olive/scripts/google-analytics.js"></script>
<script src="/olive/scripts/contextMenu.js"></script>
</head>
<body>
<%
    String username = "";
    Boolean isAuthorized = (Boolean) session
        .getAttribute(Attribute.IS_AUTHORIZED.toString()); // Nasty cast
    String projectName = "";
    String videosHtml = "";
    if (isAuthorized == null) {
        response.sendRedirect("index.jsp");
    } else if (!isAuthorized) {
        response.sendRedirect("index.jsp");
    } else {
        username = (String) session.getAttribute(Attribute.USERNAME
            .toString());
        projectName = (String) session
            .getAttribute(Attribute.PROJECT_NAME.toString());
        if (projectName == null) {
            response.sendRedirect("projects.jsp");
        }

        int accountId = DatabaseApi.getAccountId(username);
        int projectId = DatabaseApi
            .getProjectId(projectName, accountId);
        videosHtml = DatabaseApi.populateVideos(projectId);
    }
%>
<div id="header">
<div id="header-left">
<h1>Olive</h1>
</div>
<!-- end #header-left -->
<div id="header-right">
<div>Welcome, <a href="account.jsp"><%=username%>!</a>&nbsp;<a
    href="logout.jsp">Logout</a></div>
<div><strong><a href="projects.jsp">My Projects</a></strong>&nbsp;<span
    id="help-dialog-opener"><a href="">Help</a></span></div>
</div>
```

```
<!-- end #header-right --></div>
<!-- end #header -->

<div class="clear"></div>

<div id="main">

<div id="videos-container">
<div id="videos-title">
<h3><%=projectName%></h3>
</div>
<!-- end #videos-title -->
<div id="videos-controls">
<button id="upload-new-button" type="button">Upload New Video</button>
</div>
<!-- end #videos-controls -->
<div id="videos"><%=videosHtml%></div>
<!-- end #videos --></div>
<!-- end #videos-container -->

<div class="contextMenu" id="video-context-menu">
<ul>
    <li id="split-video-menu-item">Split Video</li>
</ul>
</div>
<!-- end #context-menu -->

<div id="player-div">
<div id="player-container"><video id="player-video"></video></div>
<div id="player-controls" class="center-text">
<button id="videos-playpause">Play/pause</button>
<button id="videos-volume-down">Volume down</button>
<button id="videos-volume-up" disabled="disabled">Volume up</button>
</div>
</div>
<!-- end #player -->

<div class="clear"></div>

<div id="timeline">
<div id="ticks-container"></div>
</div>

<div class="clear"></div>

<div id="export">
<button id="export-button" type="button" disabled="disabled">Export to Computer</button>

</div>
<!-- end #export --></div>
<!-- end #main -->

<div class="clear"></div>

<div id="footer"></div>

<!-- Everything below this line will be hidden and inserted in pop-ups. -->
<div id="help-dialog" class="hidden" title="How to use Olive">
<ul>
    <li>1. Create a new account.</li>
    <li>2. Create a new project.</li>
    <li>3. Upload your videos.</li>
    <li>4. Edit your videos.</li>
```

```
<li>5. Export to your computer.</li>
</ul>
</div>
<div id="confirm-delete-video-dialog" class="hidden" title="Warning!">
<p>Delete video?</p>
</div>
<div id="confirm-add-to-timeline-dialog" class="hidden"
  title="Attention!">
<p>Add Video to Timeline</p>
</div>
<div id="confirm-splice" class="hidden" title="Attention!">
<p>Publish??</p>
</div>
<!-- type="number", min, and max are valid in HTML5: http://dev.w3.org/html5/markingup/input.number.html -->
<div id="split-video-dialog-form" class="hidden" title="Split video">
<p class="validateTips"></p>
<form id="split-video-form" action="OliveServlet" name="process"
  method="post">
<fieldset><input type="hidden" name="video-name"
  id="video-name" class="text ui-widget-content ui-corner-all"
  maxlength="32" /> <label for="split-time-in-seconds">Split
time (in seconds)</label> <input type="number" min=0 max=14400
  name="split-time-in-seconds" id="split-time-in-seconds" value=""
  class="text ui-widget-content ui-corner-all" /></fieldset>
<input type="hidden" name="FormName" value="SplitVideo"></input></form>
</div>
<!-- end #dialog-form -->

</body>
</html>
```



```
<div id="footer-left"><span id="about-dialog-opener"><a
  href="">About Us</a></span></div>
<div id="about-dialog" title="About Olive">
<p>&copy; 2010 ReadyTalk</p>
</div>
<!-- Everything below this line will be hidden and inserted in pop-ups. -->
<div id="footer-right" class="hidden">&copy; 2010 ReadyTalk</div>
```

## WebContent/forgot.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@ page import="com.readytalk.olive.util.Attribute"%>
<!doctype html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Forgot Password? | The Online Video Editor</title>

<link rel="shortcut icon" href="/olive/images/olive.ico" />

<link rel="stylesheet" type="text/css" href="/olive/css/reset.css" />
<link rel="stylesheet" type="text/css"
    href="/olive/scripts/jquery-ui-1.8.9.custom/css/ui-lightness/jquery-ui-1.8.9.custom.css"
/>
<link rel="stylesheet" type="text/css" href="/olive/css/master.css" />
<link rel="stylesheet" type="text/css" href="/olive/css/account.css" />

<script src="/olive/scripts/jquery-1.5.min.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.9.custom/js/jquery-ui-1.8.9.custom.min.js"></script>
<script src="/olive/scripts/master.js"></script>
<script src="/olive/scripts/account.js"></script>
<script src="/olive/scripts/google-analytics.js"></script>
</head>
<body>
<%
    Boolean isSafe = (Boolean) session.getAttribute(Attribute.IS_SAFE
        .toString());
    Boolean isCorrect = (Boolean) session
        .getAttribute(Attribute.IS_CORRECT.toString());
    String editConfirmation = "";
    if (isCorrect == null) {
        editConfirmation = "";
    } else if (isCorrect == false) {
        if (isSafe == null) {
            editConfirmation = "";
        } else if (isSafe) {
            editConfirmation = "Question or answer do not match database records";
        } else {
            editConfirmation = "Unsafe input";
        }
    } else if (isCorrect) {
        editConfirmation = "";
        response.sendRedirect("new-password-form.jsp");
    }
    session.removeAttribute(Attribute.IS_SAFE.toString());
    session.removeAttribute(Attribute.IS_CORRECT.toString());
%>
<div id="header">
<div id="header-left">
<h1>Olive</h1>
</div>
<!-- end #header-left -->
<div id="header-right">
<div><strong><a href="index.jsp">Home</a></strong>&nbsp;<span
    id="help-dialog-opener"><a href="">Help</a></span></div>
</div>
<!-- end #header-right --></div>

<!-- end #header -->

<div class="clear"></div>
```

```
<div id="main">
<div id="edit-account-container">
<h2>Forgot Password?</h2>
<p>Please enter your username and your security question and answer.
Thank you</p>
<!-- end #about-title -->

<form id="security-question-form" action="OliveServlet" name="process"
    method="post">
<p><label for="username">Username</label><br />
<input type="text" name="username" id="username" value="" size="32"
    maxlength="32" /></p>
<p><label for="security_question">Security Question</label><br />
<input type="text" name="security_question" id="security_question"
    value="" size="32" maxlength="128" /></p>
<p><label for="security_answer">Security Answer</label><br />
<input type="text" name="security_answer" id="security_question_answer"
    value="" size="32" maxlength="128" /></p>
<input type="hidden" name="FormName" value="security-question-form"></input><br />
<input type="submit" value="Recover Password" /><span><%=editConfirmation%></span>
</form>
</div>
<!-- end #main --></div>

<div id="footer"></div>

<!-- Everything below this line will be hidden and inserted in pop-ups. -->
<div id="help-dialog" class="hidden" title="How to use Olive">
<ul>
    <li>1. Create a new account.</li>
    <li>2. Create a new project.</li>
    <li>3. Upload your videos.</li>
    <li>4. Edit your videos.</li>
    <li>5. Export to your computer.</li>
</ul>
</div>

</body>
</html>
```

03/12/11  
00:24:30

Olive

WebContent/header.jsp

1

```
<!-- This can't be used yet because of JSP complications (how to pass around the Java variables). -->
```



```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@ page import="com.readytalk.olive.util.Attribute"%>
<!doctype html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Logout | Olive</title>
<script src="/olive/scripts/google-analytics.js"></script>
</head>
<body>
<%
    // Modified from: http://stackoverflow.com/questions/1104975/for-loop-to-iterate-over-e
num-in-java
    for (Attribute attribute : Attribute.values()) {
        session.removeAttribute(attribute.toString());
    }
    response.sendRedirect("index.jsp");
%>
</body>
</html>
```

## WebContent/new-password-form.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@ page import="com.readytalk.olive.util.Attribute"%>
<!doctype html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Forgot Password? | The Online Video Editor</title>

<link rel="shortcut icon" href="/olive/images/olive.ico" />

<link rel="stylesheet" type="text/css" href="/olive/css/reset.css" />
<link rel="stylesheet" type="text/css"
    href="/olive/scripts/jquery-ui-1.8.9.custom/css/ui-lightness/jquery-ui-1.8.9.custom.css"
/>
<link rel="stylesheet" type="text/css" href="/olive/css/master.css" />
<link rel="stylesheet" type="text/css" href="/olive/css/account.css" />

<script src="/olive/scripts/jquery-1.5.min.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.9.custom/js/jquery-ui-1.8.9.custom.min.js"></script>
<script src="/olive/scripts/master.js"></script>
<script src="/olive/scripts/account.js"></script>
<script src="/olive/scripts/google-analytics.js"></script>
</head>
<body>
<%
    Boolean isSafe = (Boolean) session.getAttribute(Attribute.IS_SAFE
        .toString());
    Boolean passwordsMatch = (Boolean) session
        .getAttribute(Attribute.PASSWORDS_MATCH.toString());
    Boolean editSuccess = (Boolean) session
        .getAttribute(Attribute.EDIT_SUCCESSFULLY.toString());
    String confirmation = "";
    String index = "'index.jsp'";
    if (editSuccess == null) {
        confirmation = "";
    } else if (editSuccess == false) {
        if (isSafe) {
            if (passwordsMatch) {
                confirmation = "We're sorry, there is an error in inputting to the database.
Please try again";
            } else {
                confirmation = "Passwords do not match";
            }
        } else {
            confirmation = "Unsafe input";
        }
    } else if (editSuccess) {
        confirmation = "Congratulations. Your new password has been set. You "
            + "may now sign in to <a href = "
            + index
            + ">Olive</a>";
    }

    session.removeAttribute(Attribute.IS_SAFE.toString());
    session.removeAttribute(Attribute.PASSWORDS_MATCH.toString());
    session.removeAttribute(Attribute.EDIT_SUCCESSFULLY.toString());
%>
<div id="header">
<div id="header-left">
<h1>Olive</h1>
</div>
<!-- end #header-left -->
```

```
<div id="header-right"><span id="help-dialog-opener"><a
    href="">Help</a></span></div>
<!-- end #header-right -->
<!-- end #header -->

<div class="clear"></div>

<div id="main">
<div id="edit-account-container">
<h2>New Password</h2>
<p>Please enter a new password for your account</p>
<!-- end #about-title -->

<form id="password-form" action="OliveServlet" name="process"
    method="post">
<p><label for="password">Password</label><br />
<input type="password" name="password" id="password" value="" size="32"
    maxlength="128" /></p>
<p><label for="password">Confirm Password</label><br />
<input type="password" name="confirm_password" id="confirm_password"
    value="" size="32" maxlength="128" /></p>
<input type="hidden" name="FormName" value="new_password"></input><br />
<input type="submit" value="Submit New Password" /><span><%=confirmation%></span></form>
</div>
<!-- end #main --></div>

<div id="footer"></div>

<!-- Everything below this line will be hidden and inserted in pop-ups. -->
<div id="help-dialog" class="hidden" title="How to use Olive">
<ul>
    <li>1. Create a new account.</li>
    <li>2. Create a new project.</li>
    <li>3. Upload your videos.</li>
    <li>4. Edit your videos.</li>
    <li>5. Export to your computer.</li>
</ul>
</div>

</body>
</html>
```

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@ page import="com.readytalk.olive.util.Attribute"%>
<!doctype html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Create new project | Olive</title>
<script src="/olive/scripts/google-analytics.js"></script>
</head>
<body>
<%
    Boolean isAuthorized = (Boolean) session
        .getAttribute(Attribute.IS_AUTHORIZED.toString()); // Nasty cast
    if (isAuthorized == null) {
        response.sendRedirect("index.jsp");
    } else if (!isAuthorized) {
        response.sendRedirect("index.jsp");
    }

    Boolean isSafe = (Boolean) session.getAttribute(Attribute.IS_SAFE
        .toString()); // Nasty cast
    Boolean addedSuccessfully = (Boolean) session
        .getAttribute(Attribute.ADD_SUCCESSFULLY.toString());
    String safeMessage;
    if (isSafe == null) {
        safeMessage = "";
    } else if (isSafe) {
        if(addedSuccessfully){
            // Syntax: http://www.infimum.dk/HTML/JSwindows.html
            safeMessage = "<script> window.opener.location.reload(); window.close(); </scrip
t>";
        }
        else{
            safeMessage = "Project already exists";
        }
    } else {
        safeMessage = "Project name must be between 1 and 32 characters; must consist of a-z
, 0-9, underscores; and must begin with a letter.";
    }
    session.removeAttribute(Attribute.ADD_SUCCESSFULLY.toString());
    session.removeAttribute(Attribute.IS_SAFE.toString());
%>
<form id="add-project-form" action="OliveServlet" name="process"
    method="post">
<p><label for="ProjectName">Project Name</label> <input type="text"
    name="ProjectName" id="ProjectName" value="" size="32" maxlength="32" />
</p>
<p><%=safeMessage%></p>
<input type="hidden" name="FormName" value="AddProject"></input> <input
    type="submit" value="Create Project" /></form>
</body>
</html>
```

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@ page import="com.readytalk.olive.util.Attribute"%>
<!doctype html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Upload new video | Olive</title>
<script src="/olive/scripts/google-analytics.js"></script>
</head>
<body>
<%
    Boolean isAuthorized = (Boolean) session
        .getAttribute(Attribute.IS_AUTHORIZED.toString()); // Nasty cast
    if (isAuthorized == null) {
        response.sendRedirect("index.jsp");
    } else if (!isAuthorized) {
        response.sendRedirect("index.jsp");
    }
%>
<form id="UploadForm" action="OliveServlet" name="process"
    enctype="multipart/form-data" method="post"><input type="hidden"
    name="FormName" value="UploadVideo"></input> <input type="file"
    name="file" />
<p><label for="VideoName">Video Name</label> <input type="text"
    name="VideoName" id="VideoName" value="" size="32" maxlength="32" /></p>
<input type="submit" /></form>
</body>
</html>
```



```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@ page import="com.readytalk.olive.logic.DatabaseApi"%>
<%@ page import="com.readytalk.olive.util.Attribute"%>
<!doctype html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>My Projects | Olive</title>

<link rel="shortcut icon" href="/olive/images/olive.ico">

<link rel="stylesheet" type="text/css" href="/olive/css/reset.css" />
<link rel="stylesheet" type="text/css"
    href="/olive/scripts/jquery-ui-1.8.9.custom/css/ui-lightness/jquery-ui-1.8.9.custom.css"
    />
<link rel="stylesheet" type="text/css" href="/olive/css/master.css" />
<link rel="stylesheet" type="text/css" href="/olive/css/projects.css" />

<script src="/olive/scripts/jquery-1.5.min.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.9.custom/js/jquery-ui-1.8.9.custom.min.js"></script>
<script src="/olive/scripts/master.js"></script>
<script src="/olive/scripts/projects.js"></script>
<script src="/olive/scripts/google-analytics.js"></script>
</head>
<body>
<%
    Boolean isAuthorized = (Boolean) session
        .getAttribute(Attribute.IS_AUTHORIZED.toString()); // Nasty cast
    String username = "";
    String projectsHtml = "";
    if (isAuthorized == null) {
        response.sendRedirect("index.jsp");
    } else if (!isAuthorized) {
        response.sendRedirect("index.jsp");
    } else {
        username = (String) session.getAttribute(Attribute.USERNAME
            .toString());
        int accountId = DatabaseApi.getAccountId(username);
        projectsHtml = DatabaseApi.populateProjects(accountId);
    }
%>
<div id="header">
<div id="header-left">
<h1>Olive</h1>
</div>
<div id="header-right">
<div>Welcome, <a href="account.jsp"><%=username%>!</a>&nbsp;<a
    href="logout.jsp">Logout</a></div>
<div><strong><a href="projects.jsp">My Projects</a></strong>&nbsp;<span
    id="help-dialog-opener"><a href="">Help</a></span></div>
</div>
</div>

<div class="clear"></div>

<div id="main">
<div id="projects-container">

<div id="projects-title">
<h1>My Projects</h1>
</div>
<!-- end #projects-title -->
```

```
<div id="projects-controls">
<button type="button" onclick="openNewProjectForm()">Create New
Project</button>
</div>
<!-- end #controls -->

<div class="clear"></div>
<div id="project-clips"><%=projectsHtml%></div>
<!-- end #project-clips --></div>
<!-- end #projects-container --></div>
<!-- end #main -->

<div class="clear"></div>

<div id="footer"></div>

<!-- Everything below this line will be hidden and inserted in pop-ups. -->
<div id="help-dialog" class="hidden" title="How to use Olive">
<ul>
    <li>1. Create a new account.</li>
    <li>2. Create a new project.</li>
    <li>3. Upload your videos.</li>
    <li>4. Edit your videos.</li>
    <li>5. Export to your computer.</li>
</ul>
</div>
<div id="confirm-delete-project-dialog" class="hidden" title="Warning!">
<p>Delete project? This will also delete the project's videos.</p>
</div>

</body>
</html>
```