Olive makes it easy to edit your videos.

```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>
```

```
<?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.</de
scription>
        </property>
    </jsp-config>
</sun-web-app>
```

```xml
<?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/n
s/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>
    <servlet>
        <servlet-name>CommonsFileUploadServlet</servlet-name>
        <servlet-class>com.readytalk.olive.servlet.CommonsFileUploadServlet</servle
t-class>
    </servlet>
    <servlet-mapping>
        <servlet-name>CommonsFileUploadServlet</servlet-name>
        <url-pattern>/CommonsFileUploadServlet</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>
```

```
/*
    ---------------------------------------
    Edit account page
    ---------------------------------------
*/
#edit-account-container {
    padding: 10%;
}

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

```css
/*
    --------------------------------------
    Editor page
    --------------------------------------
*/
#main {
    min-width: 1000px;
}

#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%;
}

#videos-controls {
    position: absolute;
    top: 10%;
    right: 0%;
    bottom: 20%;
    left: 0%;
}

#videos-controls {
    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: 10%;
    left: 0%;
    text-align: left;
    border: 1px solid gray;
    overflow: auto;
}

#videos span {
    display: block;
}

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

/*
#videos-playpause {
```

```css
    position: absolute;
    bottom: 0%;
    left: 0%;
    right: 50%;
    height: 10%;
    background-color: #66aaff;
}

#videos-volume-up {
    position: absolute;
    bottom: 0%;
    right: 25%;
    left: 50%;
    height: 10%;
    background-color: #aa66ff;
}

#videos-volume-down {
    position: absolute;
    bottom: 0%;
    right: 0%;
    left: 75%;
    height: 10%;
    background-color: #ee22ff;
}
*/
.video-icon-container {
    float: left;
    width: 100px;
    padding-bottom: 40px;
    padding-right: 40px;
}

#videos span img {
    display: block;
    padding: 5px;
    border: 1px solid #000000;
    width: 50px;
    height: 50px;
    border: 1px solid #000000;
}

.video-icon {
    width: 40px;
    height: 40px;
    margin: 5px;
    padding: 5px;
}

.video-icon img {
    border: 1px solid #000000;
}

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

video {
    float: right;
    width: 100%;
```

```
    height: 100%;
}

#timeline {
    position: absolute;
    right: 100px;
    bottom: 0px;
    left: 0px;
    height: 150px;
    border: 1px solid gray;
    text-align: center;
    overflow-x: auto;
}

#timeline div {
    float: left;
}

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

```css
/*
    ---------------------------------------
    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 {

}

/*
    ---------------------------------------
    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;
```

```css
    padding: .6em 10px;
    text-align: left;
}

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

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

```css
@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: 62.5%;
    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: Georgia, serif;
}

h1 {
    font-size: 320%; /* 32px */
    font-family: serif;
    /*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: 160%; /* 16px */
}

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;
}

/*
    ---------------------------------------
    Common elements to every page
    ---------------------------------------
*/
#header {
    position: absolute;
    top: 0px;
    right: 0px;
    left: 0px;
    height: 50px;
    border-bottom: 2px solid #888888;
}

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

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

```
#main {
    position: absolute;
    top: 50px;
    right: 0px;
    bottom: 50px;
    left: 0px;
}

#footer {
    position: absolute;
    right: 0px;
    bottom: 00px;
    left: 0px;
    height: 50px;
    border-top: 2px solid #888888;
}

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

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

```css
/*
    --------------------------------------
    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,ci
te,code,del,dfn,em,img,ins,kbd,q,samp,small,strong,sub,sup,var,b,i,dl,dt,dd,ol,ul,l
i,fieldset,form,label,legend,table,caption,tbody,tfoot,thead,tr,th,td,article,aside
,canvas,details,figcaption,figure,footer,header,hgroup,menu,nav,section,summary,tim
e,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;
}
```

```
Favicon Notes
Updated 26 October 2010
By Terry Smith
----

How to create Olive favicon:

1. Obtain Olive image:
http://www.sallybernstein.com/food/single-articles/SPANISH%20OLIVES.jpg

2. Convert 300x290 JPG to 16x16 PNG:
FastStone Photo Resizer

3. Convert PNG to ICO:
http://www.convertico.com/

4. Add favicon to project.

5. Add link in <head>:
<link rel="shortcut icon" href="/olive/images/olive.ico">
```

This is generated by:

getServletContext().getRealPath("/temp/");

in CommonsFileUploadServlet.java

This is the directory where our temp files are staged to be pushed to the S3 bucket
 from the server.

C:\Users\Alberto\Documents\workspace-sts-2.3.2.RELEASE\.metadata\.plugins\org.eclip
se.wst.server.core\tmp0\wtpwebapps\olive

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

```
/*
 * This is Olive's JavaScript file for account.js 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($) {

});
```

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

var video; // Global

// 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($) {
    video = document.getElementById('player-video');

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

    $('#videos-volume-up').click(function() {
        if (video.volume <= 0.9) { // Any higher will cause an error.
            video.volume += 0.1;
        }
    });

    $('#videos-volume-down').click(function() {
        if (video.volume >= 0.1) { // Any lower will cause an error.
            video.volume -= 0.1;
        }
    });

    // Modified from: http://jqueryui.com/demos/draggable/
    $('.video-icon-container').draggable( {
        appendTo : 'body',
        scroll : false,
        connectToSortable : '#timeline',
        helper : 'clone',
        revert : 'invalid',
        snap : '#timeline'
    });

    $('#timeline').sortable( {
        revert : true
    });

    $('.video-icon-container').contextMenu('videoMenu', {
        menuStyle : {
            border : '1px solid #000'
        },
        itemStyle : {
            fontFamily : 'verdana',
            backgroundColor : '#fff',
            color : 'black',
            border : 'none',
            padding : '1px'
        },
        itemHoverStyle : {
            color : '#fff',
            backgroundColor : '#00c',
            border : 'none'
        },
        bindings : {
            'split' : function(t) {
                alert('Split Video');
                console.log('Split');
            }
        }
```

```
    });

});
function win1() {
    window.open("videoUpload.jsp", "Window1",
            "menubar=no,width=320,height=55,toolbar=no");
}
```

```javascript
/*
 * 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($) {
    var name = $("#register-name"), email = $("#register-email"), password = $("#re
gister-password"), allFields = $(
            []).add(name).add(email).add(password), 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;
        }
    }

    $("#dialog-form").dialog({
        autoOpen : false,
        height : 350,
        width : 350,
        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, 80);
                bValid = bValid && checkLength(password,
                            "register-password", 5, 16);
                bValid = bValid && checkRegexp(name,
                            /^[a-z]([0-9a-z_])+$/i,
                            "Username may consist of a-z, 0-9, underscores, beg
in with a letter.");
                // From jquery.validate.js (by joern),
                // contributed by Scott Gonzalez:
                // http://projects.scottsplayground.com/email_address_validation/
                bValid = bValid && checkRegexp(email,
                            /^((([a-z]|\d|[!#\$%&'\*\+\-\/=\?\^_`{\|}~]|[\u00A0
-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])+(\.([a-z]|\d|[!#\$%&'\*\+\-\/=\?\^_`{\|}~]|[\u0
0A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])+)*)|((\x22)(((\x20|\x09)*(\x0d\x0a))?(\x20|
\x09)+)?((([\x01-\x08\x0b\x0c\x0e-\x1f\x7f]|\x21|[\x23-\x5b]|[\x5d-\x7e]|[\u00A0-\uD
7FF\uF900-\uFDCF\uFDF0-\uFFEF])|(\\([\x01-\x09\x0b\x0c\x0d-\x7f]|[\u00A0-\uD7FF\uF9
00-\uFDCF\uFDF0-\uFFEF]))))*(((\x20|\x09)*(\x0d\x0a))?(\x20|\x09)+)?(\x22)))@((([a-
z]|\d|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])|(([a-z]|\d|[\u00A0-\uD7FF\uF900-\u
FDCF\uFDF0-\uFFEF])([a-z]|\d|-|\.|_|~|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])*([
a-z]|\d|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])))\.)+(([a-z]|[\u00A0-\uD7FF\uF90
0-\uFDCF\uFDF0-\uFFEF])|(([a-z]|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])([a-z]|\d
|-|\.|_|~|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])*([a-z]|[\u00A0-\uD7FF\uF900-\u
FDCF\uFDF0-\uFFEF])))\.?$/i,
                            "eg. ui@jquery.com");
                bValid = bValid && checkRegexp(password,
                            /^([0-9a-zA-Z])+$/,
                            "Password field only allow : a-z 0-9");

                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").button().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($) {

});
```

```
/*
 * This is Olive's JavaScript file for projects.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($) {

});

function win1() {
    window.open("newProjectForm.jsp", "Window1",
            "menubar=no,width=320,height=200,toolbar=no");
}
```

```jsp
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!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-1.8.6.custom/css/ui-lightness/jquery-ui-1.8.6.cu
stom.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-1.4.4.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.core
.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.widg
et.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.mous
e.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.butt
on.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.posi
tion.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.dial
og.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.drag
gable.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.drop
pable.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("isAuthorized"); // Nasty cast
    if (isAuthorized == null) {
        response.sendRedirect("index.jsp");
    } else if (!isAuthorized) {
        response.sendRedirect("index.jsp");
    }

    Boolean editSuccessfully = (Boolean) session
            .getAttribute("editSuccessfully");
    Boolean passwordsMatch = (Boolean) session
            .getAttribute("passwordsMatch");
    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("editSuccessfully");
    session.removeAttribute("passwordsMatch");

    String username = (String) session.getAttribute("username");
    String name = (String) session.getAttribute("name");
    String email = (String) session.getAttribute("email");
    String password = (String) session.getAttribute("password");
%>
<div id="header">
<div id="header-left">
<h1>Olive</h1>
</div>
<!-- end #header-left -->
<div id="header-right">
<div>Welcome, <%=username%>! <a href="logout.jsp">Logout</a></div>
<div><strong><a href="projects.jsp">My Projects</a></strong> <a
    href="#">Help</a></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="128" /></p>
<p><label for="new-email">Email</label> <input type="text"
    name="new-email" id="new-email" value="<%=email%>" size="32"
    maxlength="128" /></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>
<input type="hidden" name="FormName" value="EditUser"></input> <input
    type="submit" value="Update information" /><span><%=editConfirmation%></span></
form>


</div>
<!-- end #login-form-container --></div>
<!-- end #main -->

<div id="footer">
<div id="footer-left"><a href="#">About Us</a></div>
<div id="footer-right">&copy; 2010 ReadyTalk</div>
</div>
</body>
</html>
```

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!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-1.8.6.custom/css/ui-lightness/jquery-ui-1.8.6.cu
stom.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-1.4.4.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.core
.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.widg
et.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.mous
e.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.butt
on.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.posi
tion.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.dial
og.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.drag
gable.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.drop
pable.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.sort
able.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 user = "";
    String projectTitle = "";
    Boolean isAuthorized = (Boolean) session
            .getAttribute("isAuthorized"); // Nasty cast
    if (isAuthorized == null) {
        response.sendRedirect("index.jsp");
    } else if (!isAuthorized) {
        response.sendRedirect("index.jsp");
    } else {
        user = (String) session.getAttribute("username");
        projectTitle = (String) session.getAttribute("projectTitle");
        if (projectTitle == null) {
            response.sendRedirect("projects.jsp");
        }
    }
%>

<div id="header">
<div id="header-left">
<h1>Olive</h1>
</div>
<!-- end #header-left -->
<div id="header-right">
<div>Welcome, <a href="account.jsp"><%=user%>!</a> <a
    href="logout.jsp">Logout</a></div>
<div><strong><a href="projects.jsp">My Projects</a></strong> <a
    href="#">Help</a></div>
</div>
<!-- end #header-right --></div>
<!-- end #header -->

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

<div id="main">

<div id="videos-container">
<div id="videos-title">
<h3><%=projectTitle%></h3>
</div>
<!-- end #videos-title -->
<div id="videos-controls"><!-- http://stackoverflow.com/questions/1106720/how-to-di
splay-html-form-as-inline-element/1106747#1106747 -->

<!-- This should be refactored to be multiple forms, but then the CSS should be
    changed so the buttons all stay on the same line. -->
<form id="split-form" action="OliveServlet" name="process" method="post">
<input type="button" value="Upload New" onclick="javascript:win1();" />
<input type="submit" value="Split" onclick="alert('Split');" /> <input
    type="hidden" name="FormName" value="SplitVideo"></input> <input
    type="button" value="Delete" onclick="alert('Delete');" /> <input
    type="button" value="Select All" onclick="alert('Select All');" /></form>
</div>
<!-- end #videos-controls -->
<div id="videos"><!-- div id="video-1" class="video-icon-container"  img id="olive1
"
    class="video-icon" src="/olive/images/olive.png" alt="olive1" /
p Video 1 /p
p small  a href="" class="warning" Delete /a  /small  /p
 /div--> <span id="video-2" class="video-icon-container"><img
    id="olive2" class="video-icon" src="/olive/images/olive.png"
    alt="olive2" /><br />
Video 2<br />
<small><a href="" class="warning">Delete</a></small> </span> <span id="video-3"
    class="video-icon-container"><img id="olive3" class="video-icon"
    src="/olive/images/olive.png" alt="olive3" /><br />
Video 3<br />
<small><a href="" class="warning">Delete</a></small> </span> <span id="video-4"
    class="video-icon-container"><img id="olive4" class="video-icon"
    src="/olive/images/olive.png" alt="olive4" /><br />
Video 4<br />
<small><a href="" class="warning">Delete</a></small> </span></div>
<!-- end #videos -->
<div id="player-videos-controls">
<button id="videos-playpause">Play/pause</button>
<button id="videos-volume-up">Volume up</button>
<button id="videos-volume-down">Volume down</button>
</div>
</div>
<!-- end #videos-container -->

<div class="contextMenu" id="videoMenu">
<ul>
    <li id="split">Split Video</li>
</ul>
```

```
</div>
<!-- end #contextMenu -->

<div id="player-div"><video id="player-video"
    poster="/olive/images/bbb480.jpg" preload="preload"
    src="/olive/videos/bbb_trailer_iphone.m4v"></video></div>
<!-- end #player -->

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

<div id="timeline">

<div id="video-5" class="video-icon-container">
<p><img id="olive5" class="video-icon" src="/olive/images/olive.png"
    alt="olive5" /></p>
<p>Video 5</p>
<small><a href="" class="warning">Delete</a></small></div>
<div id="video-6" class="video-icon-container">
<p><img id="olive6" class="video-icon" src="/olive/images/olive.png"
    alt="olive6" /></p>
<p>Video 6</p>
<small><a href="" class="warning">Delete</a></small></div>
</div>

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

<div id="export">
<button type="button" onclick="alert('Export Video')">Export
Video</button>

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

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

<div id="footer">
<div id="footer-left"><a href="#">About Us</a></div>
<div id="footer-right">&copy; 2010 ReadyTalk</div>
</div>
</body>
</html>
```

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!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-1.8.6.custom/css/ui-lightness/jquery-ui-1.8.6.cu
stom.css" />
<link rel="stylesheet" type="text/css" href="/olive/css/master.css" />
<link rel="stylesheet" type="text/css" href="/olive/css/index.css" />

<script src="/olive/scripts/jquery-1.4.4.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.core
.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.widg
et.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.mous
e.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.butt
on.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.posi
tion.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.dial
og.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.drag
gable.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.drop
pable.js"></script>
<script src="/olive/scripts/master.js"></script>
<script src="/olive/scripts/index.js"></script>
<script src="/olive/scripts/google-analytics.js"></script>
</head>
<body>
<%
    Boolean isAuthorized = (Boolean) session
            .getAttribute("isAuthorized"); // Nasty cast
    String loginMessage;
    if (isAuthorized == null) {
        loginMessage = "Please log in.";
    } else if (isAuthorized) {
        loginMessage = "You have been successfully logged in.";
    } else {
        loginMessage = "Incorrect username and/or password.";
    }
%>
<div id="header">
<div id="header-left">
<h1>Olive</h1>
</div>
<!-- end #header-left -->
<div id="header-right"><a href="#">Help</a></div>
<!-- end #header-right --></div>
<!-- end #header -->
```

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

<div id="main">
<div id="splash-container"><img id="splash-image"
    src="/olive/images/splash-simple.png" /></div>
<!-- end #splash-container -->

<div id="login-form-container">

<form id="login-form" action="OliveServlet" name="process" method="post">
<p><label for="username">Username</label> <input type="text"
    name="username" id="login-username" size="32" maxlength="128" /></p>
<p><label for="password">Password</label> <input type="password"
    name="password" id="login-password" size="32" maxlength="128" /></p>
<input type="hidden" name="FormName" value="LoginUser"></input> <input
    type="submit" value="Login" /> <span><%=loginMessage%> <a
    href="">Forgot password?</a></span></form>
<p>Don't have an account? <a id="create-user" href="javascript:;"
    title="">Sign up for one now!</a></p>
</div>
<!-- end #login-form-container -->

<div id="dialog-form" title="Create new user">
<p class="validateTips">All form fields are required.</p>
<form id="register-form" action="OliveServlet" name="process"
    method="post">
<fieldset><label for="name">Username</label> <input
    type="text" name="name" id="register-name"
    class="text ui-widget-content ui-corner-all" /> <label for="email">Email</label
>
<input type="text" name="email" id="register-email" value=""
    class="text ui-widget-content ui-corner-all" /> <label for="password">Password<
/label>
<input type="password" name="password" id="register-password" value=""
    class="text ui-widget-content ui-corner-all" /></fieldset>
<input type="hidden" name="FormName" value="AddUser"></input></form>
</div>
<!-- end #dialog-form --></div>
<!-- end #main -->

<div id="footer">
<div id="footer-left"><a href="#">About Us</a></div>
<div id="footer-right">&copy; 2010 ReadyTalk</div>
</div>
</body>
</html>
```

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!doctype html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Insert title here</title>
<script src="/olive/scripts/google-analytics.js"></script>
</head>
<body>
<%
    session.removeAttribute("isAuthorized");
    session.removeAttribute("username");
    session.removeAttribute("password");
    session.removeAttribute("editSuccessfully");
    session.removeAttribute("addSuccessfully");
    session.removeAttribute("projectTitle");
    session.removeAttribute("passwordsMatch");
    session.removeAttribute("isSafe");
    session.removeAttribute("email");
    session.removeAttribute("name");
    response.sendRedirect("index.jsp");
%>
</body>
</html>
```

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!doctype html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Insert title here</title>
<script src="/olive/scripts/google-analytics.js"></script>
</head>
<body>
<%
    Boolean isAuthorized = (Boolean) session
            .getAttribute("isAuthorized"); // Nasty cast
    if (isAuthorized == null) {
        response.sendRedirect("index.jsp");
    } else if (!isAuthorized) {
        response.sendRedirect("index.jsp");
    }

    Boolean isSafe = (Boolean) session.getAttribute("isSafe"); // Nasty cast
    String safeMessage;
    if (isSafe == null) {
        safeMessage = "";
    } else if (isSafe) {
        // Syntax: http://www.infimum.dk/HTML/JSwindows.html
        safeMessage = "<script> window.opener.location.reload(); window.close(); </
script>";
    } else {
        safeMessage = "Invalid project name.";
    }

    session.removeAttribute("isSafe");
%>
<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="128" /></p>
<p><%=safeMessage%></p>
<input type="hidden" name="FormName" value="AddProject"></input> <input
    type="submit" value="Create Project" /></form>
</body>
</html>
```

```jsp
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@ page import="com.readytalk.olive.logic.OliveDataApi"%>
<%@ page import="com.readytalk.olive.model.User"%>
<!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-1.8.6.custom/css/ui-lightness/jquery-ui-1.8.6.cu
stom.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-1.4.4.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.core
.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.widg
et.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.mous
e.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.butt
on.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.posi
tion.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.dial
og.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.drag
gable.js"></script>
<script
    src="/olive/scripts/jquery-ui-1.8.6.custom/development-bundle/ui/jquery.ui.drop
pable.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("isAuthorized"); // Nasty cast
    if (isAuthorized == null) {
        response.sendRedirect("index.jsp");
    } else if (!isAuthorized) {
        response.sendRedirect("index.jsp");
    }
    String username = (String) session.getAttribute("username");
    String password = (String) session.getAttribute("password");
    String projectsHTML = OliveDataApi.populateProjects(new User(
            username, password));
%>
<div id="header">
<div id="header-left">
<h1>Olive</h1>
</div>
<div id="header-right">
<div>Welcome, <a href="account.jsp"><%=username%>!</a> <a
    href="logout.jsp">Logout</a></div>
<div><a href="#">Help</a></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="javascript:win1()">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 id="footer-left"><a href="#">About Us</a></div>
<div id="footer-right">&copy; 2010 ReadyTalk</div>
</div>
</body>
</html>
```

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!doctype html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Insert title here</title>
<script src="/olive/scripts/google-analytics.js"></script>
</head>
<body>
<%
    Boolean isAuthorized = (Boolean) session
            .getAttribute("isAuthorized"); // Nasty cast
    if (isAuthorized == null) {
        response.sendRedirect("index.jsp");
    } else if (!isAuthorized) {
        response.sendRedirect("index.jsp");
    }
%>
<form id="UploadForm" action="CommonsFileUploadServlet" name="process"
    enctype="multipart/form-data" method="post"><input type="hidden"
    name="FormName" value="UploadVideo"></input> <input type="file"
    name="file" /> <input type="submit" /></form>
</body>
</html>
```

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

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

// Modified from: http://www.exampledepot.com/egs/java.net/post.html
public class HttpSenderReceiver {
    public static String sendReceive(String data, URL url) {
        String response = "";
        try {
            // Send data
            URLConnection conn = url.openConnection();
            conn.setDoOutput(true);
            OutputStreamWriter outputStreamWriter = new OutputStreamWriter(
                    conn.getOutputStream());
            outputStreamWriter.write(data);
            outputStreamWriter.flush();

            // Get the response
            BufferedReader bufferedReader = new BufferedReader(
                    new InputStreamReader(conn.getInputStream()));
            String line;
            while ((line = bufferedReader.readLine()) != null) {
                response += line + System.getProperty("line.separator");
            }
            outputStreamWriter.close();
            bufferedReader.close();
        } catch (IOException e) {
            // TODO WARNING: Readers and writers may not have been closed!
            System.err.println("Error communicating with URL: "
                    + url.toString());
            e.printStackTrace();
        }
        return response;
    }

    public static void split() {
        try {
            String response = sendReceive(getJson(), new URL(getZencoderUrl()));
            System.out.println(response); // Do this for now.
        } catch (MalformedURLException e) {
            System.err.println(getZencoderUrl());
            e.printStackTrace();
        }
    }

    private static String getJson() {
        // Hard-coded for now.
        String data = "{\"api_key\": \""
                + ZencoderCredentials.getZencoderApiKey()
                + "\",\"input\": \"https://s3.amazonaws.com/test-bucket-Olive/Wildl
ife.wmv\","
                + "\"output\": [{\"base_url\": \"https://s3.amazonaws.com/test-buck
et-Olive/\","
                + "\"filename\": \"Wildlife0-3.wmv\"," + "\"start_clip\": 6,"
                + "\"clip_length\": 2}]}";
        System.out.println(data); // Do this for now.
        return data;
    }

    private static String getZencoderUrl() {
        return "https://app.zencoder.com/api/jobs";
```

```
    }
}
```

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

import java.io.UnsupportedEncodingException;
import java.sql.Connection;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;

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

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

public class OliveDataApi {
    // CAUTION: Every time a JDBC connection is created, it MUST be closed after
    // the necessary information is retrieved.

    // Why some characters are allowed: http://stackoverflow.com/questions/2049502/
what-characters-are-allowed-in-email-address
    private static final String[] illegalStrings = { "!", "&", "*", "(", ")",
            "-", "=", "{", "}", "[", "]", "\\", "|", ";", "'", "\"", ":", ",",
            "<", ">", "/", "?", "`" };

    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();
        }
        return null;
    }

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

    public static Boolean isAuthorized(User user) {
        try {
            Connection conn = getDBConnection();
            Statement st = conn.createStatement();
            String s = "USE OliveData;";
            st.executeUpdate(s);
            s = "SELECT Username FROM Accounts WHERE Username = '"
                    + user.getUsername() + "' AND Password = Password('"
                    + user.getPassword() + "');";
            ResultSet r = st.executeQuery(s);
            if (r.first()) {
                closeConnection(conn);
                return true;
            } else {
                closeConnection(conn);
                return false;
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
        return false; // Error!
    }

    public static boolean AddAccount(User user) {
        try {
            Connection conn = getDBConnection();
            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);
            s = "SELECT AccountID FROM Accounts WHERE username ='"
                    + user.getUsername() + "';";
            ResultSet r = st.executeQuery(s);
            if (r.first()) {
                int id = r.getInt("AccountID");
                user.setAccountID(id);
            } else {
                // TODO Add error for rare case that it can't find the data
            }
            closeConnection(conn);
            return true;
        } catch (Exception e) {
            e.printStackTrace();
        }
        return false;
    }

    public static String getName(String username) {
        try {
            Connection conn = getDBConnection();
            Statement st = conn.createStatement();
            String s = "USE OliveData;";
            st.executeUpdate(s);

            s = "SELECT Name FROM Accounts WHERE username ='" + username + "';";
            ResultSet r = st.executeQuery(s);
            String name = "";
            if (r.first()) {
                name = r.getString("Name");
            }
            closeConnection(conn);
            return name;
        } catch (Exception e) {
            e.printStackTrace();
        }
        return null;
    }

    public static String getEmail(String username) {
        try {
            Connection conn = getDBConnection();
            Statement st = conn.createStatement();
            String s = "USE OliveData;";
            st.executeUpdate(s);

            s = "SELECT Email FROM Accounts WHERE username ='" + username
                    + "';";
            ResultSet r = st.executeQuery(s);
            String email = "";
            if (r.first()) {
                email = r.getString("Email");
            }
            closeConnection(conn);
            return email;
        } catch (Exception e) {
```

```java
                e.printStackTrace();
            }
            return null;
    }

    public static Boolean editAccount(User user) {
        try {
            Connection conn = getDBConnection();
            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);
            closeConnection(conn);
            return true;
        } catch (Exception e) {
            e.printStackTrace();
        }
        return false;
    }

    public static void deleteAccount(User user) {
        try {
            Connection conn = getDBConnection();
            Statement st = conn.createStatement();
            String s = "USE OliveData;";
            st.executeUpdate(s);
            s = "DELETE FROM Accounts WHERE" + "username = '"
                    + user.getUsername() + "';"; // Need to add error checking
            st.executeUpdate(s);
            closeConnection(conn);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }

    public static String populateProjects(User user) {
        String projects = "";
        try {
            Connection conn = getDBConnection();
            Statement st = conn.createStatement();
            String s = "USE OliveData;";
            st.executeUpdate(s);
            if (user == null) {
                closeConnection(conn);
                return projects;
            }
            if (user.getAccountID() == -1) {
                s = "SELECT AccountID FROM Accounts WHERE username ='"
                        + user.getUsername() + "';";
                ResultSet r = st.executeQuery(s);
                int accountID = -1;
                if (r.first()) {
                    accountID = r.getInt("AccountID");
                }
                user.setAccountID(accountID);
            }
```

```java
            s = "SELECT * FROM Projects WHERE AccountID = "
                    + user.getAccountID() + ";";
            ResultSet r = st.executeQuery(s);
            if (r.first()) {
                int projectNum = 0;
                do {
                    projectNum += 1;
                    String projectTitle = r.getString("Name");
                    String projectIcon = "/olive/images/SPANISH OLIVES.jpg";
                    projects += "<div id=\"project-"
                            + projectNum
                            + "\" class=\"project-icon-container\">"
                            + "\n"
                            + "<img src=\""
                            + projectIcon
                            + "\" class=\"project-icon\" alt=\""
                            + projectTitle
                            + "\" />"
                            + "\n"
                            + "<p><a href=\"OliveServlet?projectTitle="
                            + projectTitle
                            + "\">"
                            + projectTitle
                            + "</a></p>"
                            + "\n"
                            + "<p><small><a href=\"\" class=\"warning\">Delete</a></small></p>"
                            + "\n" + "</div>" + "\n";
                } while (r.next());
            }
            closeConnection(conn);
            return projects;
        } catch (SQLException e) {
            e.printStackTrace();
        }
        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 projectTitle, String username) {
        try {
            Connection conn = getDBConnection();
            Statement st = conn.createStatement();
            String s = "USE OliveData;";
            st.executeUpdate(s);

            s = "SELECT AccountID FROM Accounts WHERE username ='" + username
                    + "';";
            ResultSet r = st.executeQuery(s);
            int accountID = -1;
            if (r.first()) {
                accountID = r.getInt("AccountID");
            } else {
                closeConnection(conn);
                return false; // Username does not exist.
            }

            s = "SELECT Name FROM Projects WHERE Name ='" + projectTitle
                    + "' AND AccountID = '" + accountID + "';";
            r = st.executeQuery(s);
            if (r.first()) {
                closeConnection(conn);
                return true;
            } else {
                closeConnection(conn);
                return false;
```

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

    public static void AddProject(Project p, User u) {
        try {
            Connection conn = getDBConnection();
            Statement st = conn.createStatement();
            String s = "USE OliveData;";
            st.executeUpdate(s);
            s = "SELECT AccountID FROM Accounts WHERE username ='"
                    + u.getUsername() + "';";
            ResultSet r = st.executeQuery(s);
            int accountID = -1;
            if (r.first()) {
                accountID = r.getInt("AccountID");
            }
            if (accountID == -1) {
                throw new SQLException("There is no account for the username: "
                        + u.getUsername());
            }
            s = "INSERT INTO Projects (Name, AccountID, Icon)" + "VALUES ('"
                    + p.getTitle() + "', '" + accountID + "' , '');";
            st.executeUpdate(s);
            closeConnection(conn);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }

    public static void deleteProject(String name, int AccountID) {
        try {
            Connection conn = getDBConnection();
            Statement st = conn.createStatement();
            String s = "USE OliveData;";
            st.executeUpdate(s);
            s = "DELETE FROM Projects WHERE" + "Name = '" + name
                    + "' AND AccountID = '" + AccountID + "';"; // Need to add erro
r checking
            st.executeUpdate(s);
            closeConnection(conn);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }

    public static void AddVideo(String name, String URL, int ProjectID,
            String icon) {
        try {
            Connection conn = getDBConnection();
            Statement st = conn.createStatement();
            String s = "USE OliveData;";
            st.executeUpdate(s);
            s = "INSERT INTO Videos (Name, URL, ProjectID, Icon)" + "VALUES ('"
                    + name + "', '" + URL + "', '" + ProjectID + "' , '" + icon
                    + "');";
            st.executeUpdate(s);
            closeConnection(conn);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }

    public static void deleteVideo(String URL) {
```

```
        try {
            Connection conn = getDBConnection();
            Statement st = conn.createStatement();
            String s = "USE OliveData;";
            st.executeUpdate(s);
            s = "DELETE FROM Videos WHERE" + "URL = '" + URL + "';"; // Need to add
error checking
            st.executeUpdate(s);
            closeConnection(conn);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }

    // TODO Create multiple methods for different kinds of input
    public static boolean isSafe(String input)
            throws UnsupportedEncodingException {
        if (input.length() < 5 || input.length() > 15) {
            return false;
        }
        // Remove the *really* bad stuff (which cause XSS attacks and SQL
        // injections).
        for (int i = 0; i < illegalStrings.length; ++i) {
            if (input.contains(illegalStrings[i])) {
                return false;
            }
        }
        return true;
    }

    // The registration modal form does its own regular expression checking,
    // which should prevent any bad characters from getting in. This is just a
    // safety check for if the JavaScript got hacked and a bad character got in.
    public static String sanitize(String input) {
        String output = input;

        // 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;
    }

}
```

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

import java.io.IOException;
import java.sql.Connection;
import java.sql.ResultSet;
import java.sql.Statement;

import org.jets3t.service.security.AWSCredentials;

public class S3Credentials {
    public static String AWS_ACCESS_KEY_PROPERTY_NAME = "";
    public static String AWS_SECRET_KEY_PROPERTY_NAME = "";

    public static AWSCredentials loadAWSCredentials() throws IOException {
        try {
            Connection conn = OliveDataApi.getDBConnection();
            Statement st = conn.createStatement();
            String s = "USE OliveData;";
            st.executeUpdate(s);
            s = "SELECT * FROM s3credentials;";
            ResultSet r = st.executeQuery(s);
            if (r.first()) {
                AWS_ACCESS_KEY_PROPERTY_NAME = r.getString("AWSAccessKey");
                AWS_SECRET_KEY_PROPERTY_NAME = r.getString("AWSSecretKey");
                OliveDataApi.closeConnection(conn);
            } else {
                // TODO Add error for rare case that it can't find the data
                OliveDataApi.closeConnection(conn);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }

        AWSCredentials awsCredentials = new AWSCredentials(
                AWS_ACCESS_KEY_PROPERTY_NAME, AWS_SECRET_KEY_PROPERTY_NAME);

        return awsCredentials;
    }

}
```

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

import java.io.File;

import org.jets3t.service.impl.rest.httpclient.RestS3Service;
import org.jets3t.service.model.S3Object;
import org.jets3t.service.security.AWSCredentials;

public class S3Uploader {
	private static final String BUCKET_NAME = "test-bucket-Olive";

	public static void upLoadVideo(File video) throws Exception {
		AWSCredentials awsCredentials = S3Credentials.loadAWSCredentials();

		RestS3Service s3Service = new RestS3Service(awsCredentials);

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

		// Upload the data objects.
		s3Service.putObject(BUCKET_NAME, fileObject);

	}
}
```

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

import java.sql.Connection;
import java.sql.ResultSet;
import java.sql.Statement;

public class ZencoderCredentials {

    public static String getZencoderApiKey() {
        String zencoderApiKey = "";
        try {
            Connection conn = OliveDataApi.getDBConnection();
            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");
                OliveDataApi.closeConnection(conn);
            } else {
                // TODO Add error for rare case that it can't find the data
                OliveDataApi.closeConnection(conn);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }

        return zencoderApiKey;
    }
}
```

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

public class Project {
    private String title;
    private String icon;
    private User user;
    private String ProjectID;

    public Project(String title, String icon, User user, String id) {
        this.title = title;
        this.icon = icon;
        this.user = user;
        this.ProjectID = id;
    }

    public Project(String title, User user) {
        this.title = title;
        this.user = user;
    }

    public String getProjectID() {
        return ProjectID;
    }

    public void setProjectID(String projectID) {
        ProjectID = projectID;
    }

    public String getTitle() {
        return title;
    }

    public void setTitle(String title) {
        this.title = title;
    }

    public String getIcon() {
        return icon;
    }

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

    public User getUser() {
        return user;
    }

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

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

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

public class User {

    private String username;
    private String password;
    private String email;
    private String name;
    private int AccountID;

    // TODO change the way the user is handled by using ID's to distinguish one
    // user from another rather than using usernames

    public User(String username, String password, String email, String name) {
        super();
        this.username = username;
        this.password = password;
        this.email = email;
        this.name = name;
        this.AccountID = -1;
    }

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

    public User(String username, String password) {
        this.username = username;
        this.password = password;
        this.AccountID = -1;
    }

    public int getAccountID() {
        return AccountID;
    }

    public void setAccountID(int accountID) {
        AccountID = accountID;
    }

    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;
    }

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

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

    public String getEmail() {
        return email;
    }

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

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

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

public class Video {
    private String name;
    private String URL;
    private String icon;
    private Project project;

    public Video(String name, String uRL, String icon, Project p) {
        this.name = name;
        URL = uRL;
        this.icon = icon;
        this.project = p;
    }

    public Project getProject() {
        return project;
    }

    public void setProject(Project project) {
        this.project = project;
    }

    public String getName() {
        return name;
    }

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

    public String getURL() {
        return URL;
    }

    public void setURL(String uRL) {
        URL = uRL;
    }

    public String getIcon() {
        return icon;
    }

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

}
```

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

import java.io.File;
import java.io.IOException;
import java.io.PrintWriter;
import java.util.Iterator;
import java.util.List;
import java.util.logging.Logger;

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

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

import com.readytalk.olive.logic.S3Uploader;

//Modified from: http://www.jsptube.com/servlet-tutorials/servlet-file-upload-examp
le.html
//Also see: http://stackoverflow.com/questions/4101960/storing-image-using-htm-inpu
t-type-file
public class CommonsFileUploadServlet extends HttpServlet {
    private static final String TMP_DIR_PATH = "/temp/";
    private File tmpDir;
    private static final String DESTINATION_DIR_PATH = "/temp/";
    private File destinationDir;
    private static Logger log = Logger.getLogger(CommonsFileUploadServlet.class
            .getName());

    @Override
    public void init(ServletConfig config) throws ServletException {
        super.init(config);
        String realPathTmp = getServletContext().getRealPath(TMP_DIR_PATH);
        tmpDir = new File(realPathTmp);
        // tmpDir = new File(TMP_DIR_PATH);
        log.info(realPathTmp);
        if (!tmpDir.isDirectory()) {
            throw new ServletException(TMP_DIR_PATH + " is not a directory");
        }
        String realPathDest = getServletContext().getRealPath(
                DESTINATION_DIR_PATH);
        destinationDir = new File(realPathDest);
        // destinationDir = new File(DESTINATION_DIR_PATH);
        log.info(realPathDest);
        if (!destinationDir.isDirectory()) {
            throw new ServletException(DESTINATION_DIR_PATH
                    + " is not a directory");
        }
    }

    @Override
    protected void doPost(HttpServletRequest request,
            HttpServletResponse response) throws ServletException, IOException {
        PrintWriter out = response.getWriter();
        response.setContentType("text/plain");
        out.println("File uploaded. Please close this window and refresh the editor
 page.");
        out.println();

        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 th
reshold.
        fileItemFactory.setRepository(tmpDir);

        ServletFileUpload uploadHandler = new ServletFileUpload(fileItemFactory);
        try {
            /*
             * Parse the request
             */
            List items = uploadHandler.parseRequest(request);
            Iterator itr = items.iterator();
            while (itr.hasNext()) {
                FileItem item = (FileItem) itr.next();
                /*
                 * Handle Form Fields.
                 */
                if (item.isFormField()) {
                    log.info("File Name = " + item.getFieldName()
                            + ", Value = " + item.getString());
                } else {
                    // Handle Uploaded files.
                    log.info("Field Name = " + item.getFieldName()
                            + ", File Name = " + item.getName()
                            + ", Content type = " + item.getContentType()
                            + ", File Size = " + item.getSize());
                    /*
                     * Write file to the ultimate location.
                     */
                    File file = new File(destinationDir, item.getName());
                    item.write(file);
                    S3Uploader.upLoadVideo(file);
                    file.delete();

                }
                out.close();
            }
        } catch (FileUploadException ex) {
            log("Error encountered while parsing the request", ex);
        } catch (Exception ex) {
            log("Error encountered while uploading file", ex);
        }

    }

}
```

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

import java.io.IOException;
import java.io.UnsupportedEncodingException;
import java.util.logging.Logger;

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 com.readytalk.olive.logic.HttpSenderReceiver;
import com.readytalk.olive.logic.OliveDataApi;
import com.readytalk.olive.model.Project;
import com.readytalk.olive.model.User;

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

    // Private static variables are ok
    private static Logger log = Logger.getLogger(OliveServlet.class.getName());

    @Override
    protected void doPost(HttpServletRequest request,
            HttpServletResponse response) throws ServletException, IOException {
        HttpSession session = request.getSession();
        String id = request.getParameter("FormName");
        log.info("This is a servlet responding to "
                + "an Http POST request from form: " + id);
        if (id.equals("LoginUser")) {
            loginHandler(request, response, session);
        } else if (id.equals("EditUser")) {
            editUserHandler(request, response, session);
        } else if (id.equals("AddUser")) {
            addUserHandler(request, response, session);
        } else if (id.equals("AddProject")) {
            addProjectHandler(request, response, session);
        } else if (id.equals("SplitVideo")) {
            splitVideoHandler(request, response, session);
        } else {
            // TODO Add a condition here for unknown forms.
        }
    }

    private void loginHandler(HttpServletRequest request,
            HttpServletResponse response, HttpSession session)
            throws UnsupportedEncodingException, IOException {
        Boolean isAuthorized;
        String username = request.getParameter("username");
        String password = request.getParameter("password");
        if (OliveDataApi.isSafe(username) && OliveDataApi.isSafe(password)) {
            session.setAttribute("isSafe", true);
            User user = new User(username, password,
                    OliveDataApi.getEmail(username),
                    OliveDataApi.getName(username));
            isAuthorized = OliveDataApi.isAuthorized(user);
            session.setAttribute("isAuthorized", isAuthorized);
            if (isAuthorized) { // Take the user to the projects page.
                session.setAttribute("username", user.getUsername());
                session.setAttribute("password", user.getPassword());
                session.setAttribute("email", user.getEmail());
                session.setAttribute("name", user.getName());
                session.removeAttribute("isSafe"); // Cleared so as to not interfer
e with any other form.
                response.sendRedirect("projects.jsp");
            } else {
                response.sendRedirect("index.jsp"); // Keep the user on the same pa
ge.
            }
        } else {
            session.setAttribute("isSafe", false);
            session.setAttribute("isAuthorized", false);
            response.sendRedirect("index.jsp");
        }
    }

    private void editUserHandler(HttpServletRequest request,
            HttpServletResponse response, HttpSession session)
            throws UnsupportedEncodingException, IOException {
        String username = (String) session.getAttribute("username");
        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");
        if (OliveDataApi.isSafe(newName) && OliveDataApi.isSafe(newEmail)
                && OliveDataApi.isSafe(newPassword)
                && OliveDataApi.isSafe(confirmNewPassword)) {
            if (newPassword.equals(confirmNewPassword)) {
                User updateUser = new User(username, newPassword, newEmail,
                        newName);
                Boolean editSuccessfully = OliveDataApi.editAccount(updateUser);
                session.setAttribute("editSuccessfully", editSuccessfully);
                session.setAttribute("passwordsMatch", true);
                session.setAttribute("password", newPassword);
                session.setAttribute("email", newEmail);
                session.setAttribute("name", newName);
            } else {
                session.setAttribute("editSuccessfully", false);
                session.setAttribute("passwordsMatch", false);
            }
        } else {
            session.setAttribute("editSuccessfully", false);
        }
        response.sendRedirect("account.jsp");
    }

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

    private void addProjectHandler(HttpServletRequest request,
            HttpServletResponse response, HttpSession session)
```

```java
            throws UnsupportedEncodingException, IOException {
        String projectName = request.getParameter("ProjectName");
        if (OliveDataApi.isSafe(projectName)) {
            session.setAttribute("isSafe", true);
            // Adding the project information to the database
            User user = new User((String) session.getAttribute("username"),
                    (String) session.getAttribute("password"));
            Project project = new Project(projectName, user);
            OliveDataApi.AddProject(project, user);
        } else {
            session.setAttribute("isSafe", false);
        }
        response.sendRedirect("newProjectForm.jsp");
    }

    // http://www.apl.jhu.edu/~hall/java/Servlet-Tutorial/Servlet-Tutorial-Form-Dat
a.html
    @Override
    protected void doGet(HttpServletRequest request,
            HttpServletResponse response) throws ServletException, IOException {
        response.setContentType("text/html");
        HttpSession session = request.getSession();
        String projectTitle = request.getParameter("projectTitle");
        if (projectTitle != null
                && OliveDataApi.isSafe(projectTitle)
                && OliveDataApi.projectExists(projectTitle,
                        (String) session.getAttribute("username"))) { // Short-circ
uiting
            session.setAttribute("projectTitle", projectTitle);
            response.sendRedirect("editor.jsp");
        } else {
            response.sendRedirect("projects.jsp");
        }
    }

    private void splitVideoHandler(HttpServletRequest request,
            HttpServletResponse response, HttpSession session)
            throws IOException {
        HttpSenderReceiver.split();
        response.sendRedirect("editor.jsp");
    }
}
```