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# Olive README

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This is the Olive project.

```
<?xml version="1.0" encoding="UTF-8"?>
<classpath>
  <classpathentry kind="src" path="src"/>
  <classpathentry kind="con" path="org.eclipse.jdt.launching.JRE_CONTAINER">
    <attributes>
      <attribute name="owner.project.facets" value="java"/>
    </attributes>
  </classpathentry>
  <classpathentry kind="con" path="org.eclipse.jst.server.core.container/org.eclipse.jst.server.tomcat.runtimeTarget/Apache Tomcat v6.0">
    <attributes>
      <attribute name="owner.project.facets" value="jst.web"/>
    </attributes>
  </classpathentry>
  <classpathentry kind="con" path="org.eclipse.jst.j2ee.internal.web.container"/>
  <classpathentry kind="con" path="org.eclipse.jst.j2ee.internal.module.container"/>
  </>
  <classpathentry kind="lib" path="C:/Program Files/Eclipse/mysql-connector-java-5.1.13/mysql-connector-java-5.1.13/mysql-connector-java-5.1.13-bin.jar"/>
  <classpathentry kind="output" path="build/classes"/>
</classpath>
```

```
<?xml version="1.0" encoding="UTF-8"?>
<projectDescription>
  <name>olive</name>
  <comment></comment>
  <projects>
  </projects>
  <buildSpec>
    <buildCommand>
      <name>org.eclipse.wst.jsdt.core.javascriptValidator</name>
      <arguments>
      </arguments>
    </buildCommand>
    <buildCommand>
      <name>org.eclipse.jdt.core.javabuilder</name>
      <arguments>
      </arguments>
    </buildCommand>
    <buildCommand>
      <name>org.eclipse.wst.common.project.facet.core.builder</name>
      <arguments>
      </arguments>
    </buildCommand>
    <buildCommand>
      <name>org.eclipse.wst.validation.validationbuilder</name>
      <arguments>
      </arguments>
    </buildCommand>
  </buildSpec>
  <natures>
    <nature>org.eclipse.jem.workbench.JavaEMFNature</nature>
    <nature>org.eclipse.wst.common.modulecore.ModuleCoreNature</nature>
    <nature>org.eclipse.wst.common.project.facet.core.nature</nature>
    <nature>org.eclipse.jdt.core.javanature</nature>
    <nature>org.eclipse.wst.jsdt.core.jsNature</nature>
  </natures>
</projectDescription>
```

```
<?xml version="1.0" encoding="UTF-8"?>
<classpath>
  <classpathentry kind="src" path="WebContent"/>
  <classpathentry kind="con" path="org.eclipse.wst.jsdt.launching.JRE_CONTAINER"/
>
  <classpathentry kind="con" path="org.eclipse.wst.jsdt.launching.WebProject">
    <attributes>
      <attribute name="hide" value="true"/>
    </attributes>
  </classpathentry>
  <classpathentry kind="con" path="org.eclipse.wst.jsdt.launching.baseBrowserLibr
ary"/>
  <classpathentry kind="output" path=""/>
</classpath>
```

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.settings/org.eclipse.jdt.core.prefs

1

```
#Mon Oct 25 21:34:05 MDT 2010
eclipse.preferences.version=1
org.eclipse.jdt.core.compiler.codegen.inlineJsrBytecode=enabled
org.eclipse.jdt.core.compiler.codegen.targetPlatform=1.6
org.eclipse.jdt.core.compiler.compliance=1.6
org.eclipse.jdt.core.compiler.problem.assertIdentifier=error
org.eclipse.jdt.core.compiler.problem.enumIdentifier=error
org.eclipse.jdt.core.compiler.source=1.6
```

```
<?xml version="1.0" encoding="UTF-8"?>
<project-modules id="moduleCoreId" project-version="1.5.0">
  <wb-module deploy-name="olive">
    <wb-resource deploy-path="/" source-path="/WebContent"/>
    <wb-resource deploy-path="/WEB-INF/classes" source-path="/src"/>
    <property name="java-output-path" value="/olive/build/classes"/>
    <property name="context-root" value="olive"/>
  </wb-module>
</project-modules>
```

```
<?xml version="1.0" encoding="UTF-8"?>
<faceted-project>
  <runtime name="Apache Tomcat v6.0"/>
  <fixed facet="jst.web"/>
  <fixed facet="wst.jsdt.web"/>
  <fixed facet="java"/>
  <installed facet="java" version="1.6"/>
  <installed facet="jst.web" version="2.5"/>
  <installed facet="wst.jsdt.web" version="1.0"/>
</faceted-project>
```







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WebContent/META-INF/MANIFEST.MF

1

Manifest-Version: 1.0  
Class-Path:

```
<?xml version="1.0" encoding="UTF-8"?>
<Context antiJARLocking="true" path="/">
  <Resource name="jdbc/OliveData"
    auth="Container"
    type="javax.sql.DataSource"
    username="root"
    password="Alberto"
    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
">
<!-- What is this file????????? This is pretty simple, it just tells tomcat
      what my application is called. There are other things in here, but for now
      this is what you need to know. The "context root" is what goes after your
      base URL. i.e. if Tomcat is running at olive.readytalk.com, then the root
      context (or context-root) would make the URL to this application: http://olive.
      readytalk.com/olive/
      That would put you at the index.jsp. -->

<sun-web-app error-url="">
  <context-root></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 version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://java.s
un.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/j
avaee/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>
```

```
@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;
```

```
@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%;
}

/*
-----
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 {
}

/*
-----
Projects page
-----
*/
```

```
*/
#projects-title {
}

#projects-title h1 {
}

#projects-title button {
    display: block; /* Make it go to the next line. */
}

#projects-container {
    width: 50%;
    height: 100%;
    border: 1px solid red;
    margin-left: auto;
    margin-right: auto;
    margin-left: auto;
}

#project-clips {
    height: 100%;
    border: 1px solid blue;
    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;
}

#controls { /*margin-top: 100px;*/
}

/*
-----
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-controls {
    border-top: 1px solid gray;
    border-right: 1px solid gray;
    border-bottom: 0px solid gray; /* different */
}
```



```
border-left: 1px solid gray;
}

#videos {
    height: 100%;
    text-align: left;
    border: 1px solid gray;
    overflow: auto; /* overflow:scroll shows bars at all times. */
}

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

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

#player {
    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;
}

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

/*
-----
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;
}

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

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

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">

```
var _gaq = _gaq || [];  
_gaq.push(['_setAccount', 'UA-19623968-1']);  
_gaq.push(['_trackPageview']);  
  
(function() {  
  var ga = document.createElement('script'); ga.type = 'text/javascript'; ga.async  
c = true;  
  ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www'  
) + '.google-analytics.com/ga.js';  
  var s = document.getElementsByTagName('script')[0]; s.parentNode.insertBefore(g  
a, s);  
})();
```

```

/* This is Olive's custom JavaScript file.
*/

// Called once the DOM is ready but before the images, etc. load.
jQuery(document).ready(function() {

});

// Modified from: http://jqueryui.com/demos/draggable/
// Failsafe jQuery code modified from: http://api.jquery.com/jQuery/#jQuery3
jQuery(function($) {
    $('img').draggable();

    $('.timeline').droppable( {
        drop : function() {
            alert('dropped');
        }
    });

    $('#olive1').bind('click', function() {
        $('#olive1').clone().insertAfter('#olive4').slidedown();
    });

    $('#olive2').bind('click', function() {
        $('#olive2').clone().insertAfter('#olive4');
    });

    $('#olive3').bind('click', function() {
        $('#olive3').clone().insertAfter('#olive4');
    });

    $('#olive4').bind('click', function() {
        $('#olive4').clone().insertAfter('#olive4');
    });
});

// Modified from: http://jqueryui.com/demos/dialog/#modal-form
// Failsafe jQuery code modified from: http://api.jquery.com/jQuery/#jQuery3
jQuery(function($) {
    var name = $("#register-name"), email = $("#register-email"), password = $("#register-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 : 300,
        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
                    && checkRegex(name,
                        /^[a-z]([0-9a-z_])+$/i,
                        "Username may consist of a-z, 0-9,
underscores, begin with a letter.");
                // From jquery.validate.js (by joern),
                // contributed by Scott Gonzalez:
                // http://projects.scottplayground.com/email_address_validation/

                bValid = bValid
                    && checkRegex(
                        email,
                        /^((([a-z]|\d|!#$%&'*\+\/=\?^_\{|\}|~)|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFFF])+\.)((\x22)((\x20|\x09)*(\x0d\x0a)?)?(\x20|\x09)+)?(((\x01-\x08\x0b\x0c\x0e-\x1f\x7f)|\x21|[\x23-\x5b]|[\x5d-\x7e]|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFFF])|((\x01-\x09\x0b\x0c\x0d-\x7f)|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFFF]))))*((\x20|\x09)*(\x0d\x0a)?)?(\x20|\x09)+)?(\x22))@((((([a-z]|\d|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFFF])|((([a-z]|\d|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFFF])|([a-z]|\d|-|\.|_|~|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFFF])*([a-z]|\d|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFFF]))\.)+)(([a-z]|\d|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFFF])|([a-z]|\d|-|\.|_|~|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFFF])))*([a-z]|\d|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFFF])))\.\?$/i,
                        "eg. ui@jquery.com");

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

                if (bValid) {
                    $("#users tbody").append(
                        "<tr>" + "<td>" + name.val()
                            + "</td>" + "<td>"
                                + email.val() + "</td>"
                                    + "<td>" + password.val()
                                        + "</td>" + "</tr>";
                    $(this).dialog("close");
                }
            }
        }
    });

```

```
        },
        Cancel : function() {
            $(this).dialog("close");
        }
    },
    close : function() {
        allFields.val("").removeClass("ui-state-error");
    }
});

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

```
<%@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/style.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/script.js"></script>
<script src="/olive/scripts/google-analytics.js"></script>
</head>
<body>

<div id="header">
<div id="header-left">
<h1>Olive</h1>
</div>
<!-- end #header-left -->
<div id="header-right">
<div>Welcome, User!&nbsp;<a href="#">Logout</a></div>
<div><strong><a href="projects.jsp">My Projects</a></strong>&nbsp;<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>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="Olivia" size="32" maxlength="128" /></p>
```

```
<p><label for="new-email">Email</label> <input type="text"
    name="new-email" id="new-email" value="olivia (at) olive.readytalk.com" size="3
2" maxlength="128" /></p>
<p><label for="new-password">Password</label> <input type="password"
    name="new-password" id="new-password" value="s3crets" 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="s3crets" size="32" maxlength="128" /></p>
<input type="submit" value="Update information" /></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/style.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/script.js"></script>
<script src="/olive/scripts/google-analytics.js"></script>
</head>
<body>

<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>&nbsp;<a href="#">Logout</a></div>
<div><strong><a href="projects.jsp">My Projects</a></strong>&nbsp;<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>My Vacation</h3>
</div>
<!-- end #videos-title -->
```

```
<div id="videos-controls">
<button type="button" onclick="alert('Upload New')">Upload New</button>
<button type="button" onclick="alert('Edit')">Edit</button>
<button type="button" onclick="alert('Delete')">Delete</button>
<button type="button" onclick="alert('Select All')">Select All</button>
</div>
<!-- end #videos-controls -->
<div id="videos">   </div>
<!-- end #videos --></div>
<!-- end #videos-container -->

<div id="player"><video id="video-1"
    poster="http://cdn.kaltura.org/apis/html5lib/kplayer-examples/media/bbb480.jpg"
    controls="controls"
    src="http://cdn.kaltura.org/apis/html5lib/kplayer-examples/media/bbb_trailer_ip
hone.m4v">
</video></div>
<!-- end #player -->

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

<div id="timeline">
<h1>Timeline</h1>
</div>

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

<div id="export">
<button type="button" onclick="JavaScript: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/style.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/script.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"></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="submit" value="Login" /> <span><%=loginMessage%> <a href="#">Forgot pas
sword</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>
<fieldset><label for="name">Name</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>
</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=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/style.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/script.js"></script>
<script src="/olive/scripts/google-analytics.js"></script>
</head>
<body>
<div id="header">
<div id="header-left">
<h1>Olive</h1>
</div>
<div id="header-right">
<div>Welcome, <a href="account.jsp">User!</a>&nbsp;<a href="#">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="controls">
<button type="button" onclick="alert('Create New Project')">Create
New Project</button>
```

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

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

<div id="project-clips">
<div id="project-1" class="project-icon-container">
<p><a href="editor.jsp">My Wedding</a></p>
<p><small><a href="#" class="warning">Delete</a></small></p>
</div>
<div id="project-2" class="project-icon-container">
<p><a href="editor.jsp">My Summer</a></p>
<p><small><a href="#" class="warning">Delete</a></small></p>
</div>
<div id="project-3" class="project-icon-container">
<p><a href="editor.jsp">My Vacation</a></p>
<p><small><a href="#" class="warning">Delete</a></small></p>
</div>
<div id="project-4" class="project-icon-container">
<p><a href="editor.jsp">My Other Wedding</a></p>
<p><small><a href="#" class="warning">Delete</a></small></p>
</div>
<div id="project-5" class="project-icon-container">
<p><a href="editor.jsp">My Other Summer</a></p>
<p><small><a href="#" class="warning">Delete</a></small></p>
</div>
<div id="project-6" class="project-icon-container">
<p><a href="editor.jsp">My Other Vacation</a></p>
<p><small><a href="#" class="warning">Delete</a></small></p>
</div>
<div id="project-7" class="project-icon-container">
<p><a href="editor.jsp">Yet Another Wedding</a></p>
<p><small><a href="#" class="warning">Delete</a></small></p>
</div>
<div id="project-8" class="project-icon-container">
<p><a href="editor.jsp">Yet Another Summer</a></p>
<p><small><a href="#" class="warning">Delete</a></small></p>
</div>
<div id="project-9" class="project-icon-container">
<p><a href="editor.jsp">Yet Another Vacation</a></p>
<p><small><a href="#" class="warning">Delete</a></small></p>
</div>

</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>
```

```

updateTips( n );
    return false;
} else {
    return true;
}
}

$( "#dialog-form" ).dialog({
    autoOpen: false,
    height: 300,
    width: 350,
    modal: true,
    buttons: {
        "Create an account": function() {
            var bValid = true;
            allFields.removeClass( "ui-state-error" );

            bValid = bValid && checkLength( name, "username", 3, 16 );
            bValid = bValid && checkLength( email, "email", 6, 80 );
            bValid = bValid && checkLength( password, "password", 5, 16 );

            bValid = bValid && checkRegexp( name, /^[a-z]([0-9a-z_])+$/i, "
Username may consist of a-z, 0-9, underscores, begin with a letter. " );
            // From jquery.validate.js (by joern), contributed by Scott Gon
zalez: http://projects.scottssplayground.com/email_address_validation/
            bValid = bValid && checkRegexp( email, /^((([a-z]|\d|!#$%&'\"
\\+\/-\/=?\^_'\{\}~)|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])+(\.([a-z]|\d|!#$%&
'\"\\+\/-\/=?\^_'\{\}~)|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF]))+)|((\x22)((\x
20|\x09)*(\x0d\x0a))?(\x20|\x09)+)?(((\x01-\x08\x0b\x0c\x0e-\x1f\x7f)|\x21|[\x23-\x
5b]|[\x5d-\x7e])|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])|(\\"((\x01-\x09\x0b\x0c\x
0d-\x7f)|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])))*)((\x20|\x09)*(\x0d\x0a))?(\x
20|\x09)+)?(\x22))@((([a-z]|\d|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])|([a-z]
|\d|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])|([a-z]|\d|_|~|[\u00A0-\uD7FF\uF9
00-\uFDCF\uFDF0-\uFFEF])*([a-z]|\d|_|~|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF]))\.)+
(([a-z]|\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF)|([a-z]|\u00A0-\uD7FF\uF900-\uF
DCF\uFDF0-\uFFEF))([a-z]|\d|_|~|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])*([a
-z]|\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF)))\.$/i, "eg. ui@jquery.com" );
            bValid = bValid && checkRegexp( password, /^[([0-9a-zA-Z])+$/i, "
Password field only allow : a-z 0-9" );

            if ( bValid ) {
                $( "#users tbody" ).append( "<tr>" +
                    "<td>" + name.val() + "</td>" +
                    "<td>" + email.val() + "</td>" +
                    "<td>" + password.val() + "</td>" +
                    "</tr>" );
                $( this ).dialog( "close" );
            }
        },
        Cancel: function() {
            $( this ).dialog( "close" );
        }
    },
    close: function() {
        allFields.val( "" ).removeClass( "ui-state-error" );
    }
});
$( "#create-user" )
.click(function()
{
    $( "#dialog-form" ).dialog( "open" );
});
});

```

```
</head>
<body>

<div class="demo">

<div id="dialog-form" title="Create new user">
  <p class="validateTips">All form fields are required.</p>

  <form>
    <fieldset>
      <label for="name">Name</label>
      <input type="text" name="name" id="name" class="text ui-widget-content ui-corner-all" />
      <label for="email">Email</label>
      <input type="text" name="email" id="email" value="" class="text ui-widget-content ui-corner-all" />
      <label for="password">Password</label>
      <input type="password" name="password" id="password" value="" class="text ui-widget-content ui-corner-all" />
    </fieldset>
  </form>
</div>


<p>Don't have an account <a id="create-user" href="javascript:;" title="">Sign up for one now!</a></p>
</div><!-- End demo -->


</body>
</html>
```

```

package com.readytalk.olive.logic;

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

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

import com.readytalk.olive.model.User;

/**
 * This is a nice, normal type of class. I call it logic because it is the type
 * of place where you would want to write some "business logic". The sorts of
 * things that a servlet would kick off. In this case, it's a ridiculous example
 * that mocks me (and other older folks). Not that old, of course...
 *
 * All that said, this is a good sort of class to make to do things. I made the
 * methods static because this will only be used in the HttpRequest/HttpResponse
 * cycle that a user will initiate.
 *
 * I hope that makes sense, read on!
 *
 * @author mweaver
 */
public class OliveLogic {

    /**
     * I don't use this method in my example, but this would be an excellent
     * place to put some logic that:
     *
     * 1) Connects to a database. 2) Validates a username and password. 3)
     * returns some value.
     *
     * I use a boolean here, but an enum that you write would be heaps better!
     *
     * @param username
     * @param password
     * @return
     */
    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 = '"+user.getPassword()+"'";
            ResultSet r = st.executeQuery(s);
            if(r.first()){
                closeConnection(conn);
                return true;
            }
            else{
                closeConnection(conn);
                return false;
            }
        }catch (Exception e) { e.printStackTrace(); }
        /*if (user.getUsername().equals("olive")
            && user.getPassword().equals("evilo")) {
            return true;
        } else {
            return false;
        }*/
    }
}

```

```

/*
 * try { Statement stmt = null;
 *
 * // Register the JDBC driver for MySQL.
 * Class.forName("com.mysql.jdbc.Driver");
 *
 * // Define URL of database server for // database named mysql on the
 * localhost // with the default port number 3306. String url =
 * "jdbc:mysql://localhost:3306/testDB";
 *
 * // Get a connection to the database for a // user named root with a
 * blank password. // This user is the default administrator // having
 * full privileges to do anything. Connection con =
 * DriverManager.getConnection(url, "root", "olive");
 *
 * // Display URL and connection information System.out.println("URL: "
 * + url); System.out.println("Connection: " + con); stmt =
 * con.createStatement();
 *
 * stmt.executeUpdate("CREATE TABLE myTable(test_id int, " +
 * "test_val char(15) not null);");
 * stmt.executeUpdate("INSERT INTO myTable(test_id, " +
 * "test_val) VALUES(2,'Two')");
 * stmt.executeUpdate("INSERT INTO myTable(test_id, " +
 * "test_val) VALUES(3,'Three')");
 * stmt.executeUpdate("INSERT INTO myTable(test_id, " +
 * "test_val) VALUES(4,'Four')");
 * stmt.executeUpdate("INSERT INTO myTable(test_id, " +
 * "test_val) VALUES(5,'Five')");
 *
 * try { stmt.executeUpdate("DROP TABLE myTable"); } catch (Exception e)
 * { System.out.print(e);
 * System.out.println("No existing table to delete"); }
 *
 * } catch (Exception e) { e.printStackTrace(); }
 */
return false; // Error!
}

public static Connection getDBConnection(){
    try{
        Context initCtx = new InitialContext();
        DataSource ds = (DataSource)initCtx.lookup("java:comp/env/jdbc/OliveDat
a");
        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 void AddAccount(String username, String password, String name, St
ring email){
    try{
        Connection conn = getDBConnection();
        Statement st = conn.createStatement();
        String s = "USE OliveData;";
        st.executeUpdate(s);
        s = "INSERT INTO Accounts (Username, Password, Name, Email)" +
            "VALUES ('"+username+"', '"+password+"', '"+name+"', '"+email+
            "')";
        st.executeUpdate(s);
        closeConnection(conn);
    }catch (Exception e) { e.printStackTrace(); }
}

public static void AddProject(String name, int AccountID, String icon){

```

```
try{
    Connection conn = getDBConnection();
    Statement st = conn.createStatement();
    String s = "USE OliveData;";
    st.executeUpdate(s);
    s = "INSERT INTO Projects (Name, AccountID, Icon)" +
        "VALUES ('"+name+"', '"+AccountID+"', '"+icon+"')";
    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 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 che
cking
        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 error checking
        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(); }
}
}
```

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

import java.io.UnsupportedEncodingException;

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

    public String sanitize(String input) throws UnsupportedEncodingException {
        String output = input;

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

        // Let encoding convert the rest to safe strings (but not remove).
        String encoding = "UTF-8"; // This is recommended by the The World Wide We
        b Consortium Recommendation. See : http://download.oracle.com/javase/1.4.2/docs/api
        /java/net/URLEncoder.html#encode\(java.lang.String, java.lang.String\)
        // Other encodings: http://download.oracle.com/
        javase/1.4.2/docs/api/java/nio/charset/Charset.html
        try {
            output = java.net.URLEncoder.encode(output, encoding);
        } catch (UnsupportedEncodingException e) {
            throw new UnsupportedEncodingException("Choose a different encoding tha
n \" " + encoding + "\". " + e.getMessage());
        }

        return output;
    }
}
```

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

import java.io.UnsupportedEncodingException;

public class User {

    private String username;
    private String password;

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

    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 String sanitize(String input) throws UnsupportedEncodingException {
        String output = input;

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

        // Let encoding convert the rest to safe strings (but not remove).
        String encoding = "UTF-8"; // This is recommended by the The World Wide We
        b Consortium Recommendation. See : http://download.oracle.com/javase/1.4.2/docs/api/java/net/URLLEncoder.html#encode\(java.lang.String, java.lang.String\)
        // Other encodings: http://download.oracle.com/javase/1.4.2/docs/api/java/nio/charset/Charset.html
        try {
            output = java.net.URLEncoder.encode(output, encoding);
        } catch (UnsupportedEncodingException e) {
            throw new UnsupportedEncodingException("Choose a different encoding tha
n \" + encoding + \"\". " + e.getMessage());
        }

        return output;
    }
}
```

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

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

import com.readytalk.olive.logic.OliveLogic;
import com.readytalk.olive.model.User;

import java.io.IOException;
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;

/**
 * So tomcat will forward any request here that meets a certain pattern.
 *
 * To tell tomcat how to do this, you will want to setup the web.xml file.
 *
 * Web.xml is filled with what Sun(now Oracle) calls "deployment descriptors"
 * that tell tomcat about the code you wrote. It tells tomcat how to direct
 * requests and where resources are located.
 *
 * So these are the entries I made for this Servlet under the WEB-INF directory,
 * in web.xml.
 *
 * First, I have to tell the web container about my servlet, so it can be called
 * by a shorter name elsewhere in the config file:
 *
 * <servlet> <servlet-name>OliveServlet</servlet-name>
 * <servlet-class>com.readytalk.olive.servlet.OliveServlet</servlet-class>
 * </servlet>
 *
 * That was easy enough, but now I have to tell the container what requests
 * should go here. This isn't the easiest thing to explain, so look at the XML
 * first:
 *
 * <servlet-mapping> <servlet-name>OliveServlet</servlet-name>
 * <url-pattern>/OliveServlet</url-pattern> </servlet-mapping>
 *
 * This means that if tomcat is running at olive.readytalk.com and our root
 * context (see the other .xml file in the WEB-INF directory... that is the
 * "sun-web.xml" for more on this) is "MattsBadExample" (which it is), then any
 * requests directed to http://olive.readytalk.com/MattsBadExample/OliveServlet
 * will be mapped to this class.
 *
 * Of course, in the index.jsp file we only refer to it locally (as index.jsp
 * sits at the root of our application, in terms of URL structure).
 *
 * I hope that makes sense. So if you make a new Servlet class you want a form
 * on a jsp page to reference, you must first give it a short name for the
 * container (which can actually be anything) and then you will want to map that
 * to a URL. The servlet-name values have to match, but the url-pattern and
 * servlet name can be anything, the servlet-class just has to point at the
 * fully qualified class name. That is the name of the package + the class.
 *
 * These entries would be perfectly valid:
 *
 * <servlet> <servlet-name>NotMyServletsNameAtAll</servlet-name>
 * <servlet-class>com.readytalk.olive.servlet.OliveServlet</servlet-class>
 * </servlet>
 *
 * And
 *
 * <servlet-mapping> <servlet-name>NotMyServletsNameAtAll</servlet-name>
 * <url-pattern>/What</url-pattern> </servlet-mapping>
 *
 * This, however, is confusing, but just illustrating a point. It is practice to
 *
 * not do this but keep it as I have.
 *
 * @author mweaver
 */
public class OliveServlet extends HttpServlet {

    /**
     * This will be visible in your catalina.out file. (HINT: type
     * "tail -F catalina.out" to see it active in a shell).
     *
     * Look inside the doPost method I overrode to see how to use it.
     */
    private static Logger log = Logger.getLogger(OliveServlet.class.getName());

    /**
     * Don't store anything as a member variable in the Servlet.
     *
     * This will not work.
     *
     * Why?
     *
     * Well, you can really only store things in a session, or refer to them
     * within the scope of a doPost or doGet (or whatever you want to handle).
     * This is because a Servlet is "re-entrant". That means that multiple users
     * can call an instance at any given time. It also means that because
     * tomcat, not you, handles the creation and destruction of Servlet
     * instances, you never know if you are getting the same one.
     *
     * If this is confusing, ask me (matt.weaver@readytalk.com) more about it.
     * Just know not to do this!
     */
    private Object dontDoThis;

    /**
     * The meat and potatoes of Servlets. This is where the action happens!
     *
     * Everything inside of a web (servlet) container is controlled by "users
     * asking for things". Or, in other words, a users browser asking for a
     * resource at a given URL. If the form (see the index.jsp file) is of
     * method="POST" then this is the method that will be called if it points at
     * the URL mapped out by web.xml.
     *
     * That entry
     *
     * @param request
     * @param response
     * @throws ServletException
     * @throws IOException
     */
    @Override
    protected void doPost(HttpServletRequest request,
        HttpServletResponse response) throws ServletException, IOException {

        /**
         * The log will have .severe (very bad) .warning (uh oh) and .info
         *
         * You probably want to always use the .info method to log.
         */
        log.info("This is a servlet responding to an Http POST request");

        /**
         * These came from the form you submitted to this URL
         */
        String username = request.getParameter("username");
        String password = request.getParameter("password");

        User user = new User(username, password);
    }
}
```



```
Boolean isAuthorized = OliveLogic.isAuthorized(user);

/*
 * The session object is bound to your user's IP/MAC address by tomcat.
 * That means that it should be unique for each user. The timeout (when
 * tomcat destroys a session) can be configured in web.xml
 */
HttpSession session = request.getSession();

/*
 * Don't go to crazy with this, but you can set the information learned
 * from the OliveLogic to an attribute that will be forwarded on
 * throughout the session.
 */
session.setAttribute("isAuthorized", isAuthorized); // Do not redisplay use
r name (XSS vulnerability).

if (isAuthorized) { // Take the user to the projects page.
    response.sendRedirect("projects.jsp");
}
else { // Keep the user on the same page.
    response.sendRedirect("index.jsp");
}
}
```