

Code Samples

PHP Mysqli Query function

```
/**
 * Executes a Query and returns results
 *
 * @param string $sql The SQL to be executed
 * @param array $params The parameters to bind the query
 * @param bool $return A flag to determine if the results need to be returned
 * @return array An associate array of the query result set
 */

public function query($sql, $params, $return) {

    //Set private variables
    $this->_sql    = $sql;
    $this->_params = $params;
    $this->_return = $return;

    //Instantiate a new reflection to mysqli_stmt
    $Reflect = new ReflectionClass('mysqli_stmt');

    //Call Prepared statement
    $stmt = $this->_con->prepare($this->_sql);

    //If there are parameters passed in
    if($this->_params) {

        //instance variables
        $paramsStack = array();
        $x = 0;

        //Assign ParameterStack by reference to the input parameter so bind_param works
        foreach($this->_params as $value) {
            $paramsStack[$x] = &$this->_params[$x++];
        }

        //Get an instance of the bind_param method
        $method = $Reflect->getMethod('bind_param');

        //Invoke the returned method and pass an array of parameters in
        $method->invokeArgs($stmt, $paramsStack);

    }

    //Execute the prepared statement
    $stmt->execute();

    //If the dataset should be returned
    if($return) {

        //get number of columns returned
        $columnCount = $stmt->field_count;

        //get number of rows returned
        $stmt->store_result();
        $rowCount = $stmt->num_rows;

        //call meta data functions to get column names
        $meta = $stmt->result_metadata();
    }
}
```

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```
$field = $meta->fetch_fields();

//Instantiate array for result set
$resultStack = array();
$result = array();

//Build the associative array for the result set
for($i = 0; $i < $columnCount; $i++) {
    $resultStack[$field[$i]->name] = "";
}

//Get an instance of the bind_result method
$method = $Reflect->getMethod('bind_result');

//Invoke the result method
$method->invokeArgs($stmt, $resultStack);

//instance increment variable
$i = 0;

//While there are results to fetch
while($stmt->fetch()) {

    //instantiate a new element in the result array
    $result[$i] = array();

    //For every column returned from resultStack
    //get the column name and value and set new multidimensional associative array
    foreach($resultStack as $k=>$v){
        $result[$i][$k] = $v;
    }

    //increment result array
    $i++;

}

} else {
    $result = 1;
}

//Close the query
$stmt->close();

return $result;
}
```

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jQuery XML nav Menu

```
/*
 * xml-nav
 *
 * A XML based menu built using jQuery
 *
 * @author Joshua Moore Frankel <joshmfrankel@gmail.com>
 * @copyright Copyright (c) 2011, Joshua Frankel
 * @license Dual licensed under the MIT and GPL licenses.
 * @version 0.5
 */
(function($){

    /*
     * Main Function
     * @access public
     * @param object literal - Allows for user customization of default options
     */
    $.fn.jTravel = function(options) {

        //Extend the default options with those provided
        //First object empty to prevent overriding of "config" object
        //Always returns new object
        var $this = $(this);
        var config = $.extend({}, $.fn.jTravel.defaults, options);
        var callerID = $this.attr('id');
        var markup = '<ul>';

        //Retain jQuery Chainability
        return this.each(function() {

            //Call the loadXML function to parse the XML as text
            if(config.url.length) {
                var xml = xmlLoader();
            } else {
                alert("Not valid xml file location.");
            }

            //Find each menu that is a child of the root element
            //Call the recursive function to begin building the menu structure
            $(xml).children(config.node).each(recurseXML);

            //Add closing unordered list to the markup string
            markup += '</ul>';

            //Append the completed markup string to the specified div id
            $("#"+callerID).append(markup);

        });

        /*
         * LoadXML Function
         *
         * Loads XML using jQuery ajax
         * Set to Synchronous mode to save xml as a variable
         *
         * @access private
        */
    }
});
```

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```
* @param object config    The config object
* @return string xml
*/
function xmlLoader() {
    var xml = null;
    $.ajax({
        type:"GET",
        url: config.url,
        dataType: "text",
        async: false,
        success: function(data){
            xml = data;
        }
    });
    return xml;
}

/*
 * recurseXML Function
 *
 * Traverse XML tree recursively and build a markup string
 * to be appended to a div id
 *
 * @access private
 * @param object    - The calling object, should be an xml node
 */
function recurseXML(){

    //Initialize node variables
    var url = $(this).attr("url");
    var text = $(this).attr("text");
    var title = $(this).attr("title");
    var hasChildren = $(this).children(config.node).length > 0;

    //If the current node has a url attribute then it is a link
    //Otherwise it is a category and does not require an anchor tag
    if(url){
        markup += "<li><a href='"+url+"' title='"+title+"'>"+text+"</a>";
    } else {
        markup += "<li><a href='#' title='"+title+"'>"+text+"</a>";
    }

    //If current node has children then use recursion to build an unordered list
    if(hasChildren){

        //add image here
        markup += '&nbsp;<ul>';

        //Start recursion to move through child nodes of current node
        $(this).children(config.node).each(recurseXML);

        markup += '</ul>';
    }

    markup += '</li>';
}
};
```

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```
/*
 * Properties
 *
 * @access public
 * @var object
 */
$.fn.jTravel.defaults = {
  url: "",
  effect: "slide",
  target: "_self",
  node: "menu"
};
})(jQuery);
```

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PHP User Class

```
/**
 * Private Properties
 */
private $_username    = "";
private $_password    = "";
private $_email       = "";
private $_activationKey = "";
private $_sessionKey  = "";

/**
 * Activates a User account if the query string matches the activation string
 *
 */
public function activateUser() {

    //Instantiate a new connection
    $Connection = new Connection();

    //Variables to Pass
    $sql = "SELECT userID FROM USERS WHERE activationKey = ? AND active = 0 LIMIT 1";
    $params = array('s', $this->_activationKey);

    //Call the Query method
    $result = $Connection->query($sql, $params, 1);

    if($result) {

        //Variables to Pass
        $sql = "UPDATE Users SET active = 1, activationKey = NULL WHERE userID = ?";
        $params = array('i', $result[0]['userID']);

        //Call the Query method
        $result = $Connection->query($sql, $params, 0);

    } else {
        return false;
    }
}

/**
 * User login Method
 *
 * Check the hashed password vs the saved database password. Immediately remove all password
 * variables after usage.
 */
public function login() {

    $success = FALSE;

    //Instantiate a new connection
    $Connection = new Connection();

    //bCrypt external hashing library
    $Hasher = new PasswordHash(8, FALSE);

    //get the matching password for the user authentication
```

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```
$loginPassword = $this->_getMatchingPassword();

//check the input password vs the database password
$hasherCheck = $Hasher->CheckPassword($this->_password, $loginPassword[0]['password']);

//Unset password variables
unset($this->_password);
unset($loginPassword);

//if there is a match
if($hasherCheck) {

    $sessionKey = $Hasher->HashPassword(microtime());

    //Variables to Pass
    $sql = "UPDATE Users SET loginStatus = 1, sessionKey = ? WHERE username = ?";
    $params = array('ss', $sessionKey, $this->_username);

    //Call the Query method
    $result = $Connection->query($sql, $params, 0);

    //Username matches the hashed password
    $success = array($this->_username, $sessionKey);

} else {

    //Password mismatch
    $success = FALSE;
}

return $success;
}

/**
 * Register Method
 */
public function register() {

    //bCrypt external hashing library
    $Hasher = new PasswordHash(8, FALSE);

    //Call method to get matching username
    $result = $this->_getMatchingUsername();

    if($result) {
        return "User already exists";
    } else {

        //Instantiate a new connection
        $Connection = new Connection();

        //generate random 32 character hash
        $hash = md5(rand(0,1000));
        $access = 2;
        $active = 0;

        //Hash Password
        $this->_password = $Hasher->HashPassword($this->_password);
    }
}
```

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```
//Variables to Pass
$sql = "INSERT INTO Users (accessID, username, password, email, active, activationKey,
sessionKey)
VALUES(?, ?, ?, ?, ?, ?, ?)";

$params = array('ississ', $access, $this->_username, $this->_password, $this->_email,
$active, $hash, NULL);

//Call the Query method
$result = $Connection->query($sql, $params, 0);

}

}

public function logout() {

//Instantiate a new connection
$Connection = new Connection();

//Call the Query method
$result = $this->getLoginStatus();

if($result) {

//Variables to Pass
$sql = "UPDATE Users SET loginStatus = 0, sessionKey = NULL WHERE username = ? AND
sessionKey = ?";
$params = array('ss', $this->_username, $this->_sessionKey);

//Call the Query method
$Connection->query($sql, $params, 0);
}

return $result;
}

/**
 * Getters and Setters
 */

/**
 * Private function to return the user password
 *
 * @return string The current username password
 */
private function _getMatchingPassword() {

//Instantiate a new connection
$Connection = new Connection();

//Variables to Pass
$sql = "SELECT password FROM users WHERE username = ? AND active = 1 AND loginStatus =
0 LIMIT 1";
$params = array('s', $this->_username);
```


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```
//Call the Query method
$result = $Connection->query($sql, $params, 1);

//No matching username found or not active account
if(!$result) {
    return FALSE;
}

return $result;
}

/**
 * Private method to determine if a username exists
 */
private function _getMatchingUsername() {

    //Instantiate a new connection
    $Connection = new Connection();

    //Variables to Pass
    $sql = "SELECT username FROM USERS WHERE username = ? LIMIT 1";
    $params = array('s', $this->_username);

    //Call the Query method
    $result = $Connection->query($sql, $params, 1);

    return $result;
}

/**
 * Public method to return the login status
 */
public function getLoginStatus() {

    //Instantiate a new connection
    $Connection = new Connection();

    //Variables to Pass
    $sql = "SELECT userID FROM users WHERE username = ? AND sessionKey = ? AND active = 1
AND loginStatus = 1 LIMIT 1";
    $params = array('ss', $this->_username, $this->_sessionKey);

    //Call the Query method
    $result = $Connection->query($sql, $params, 1);

    return $result;
}

public function setUsername($value) {
    $this->_username = $value;
}

public function setPassword($value) {
    $this->_password = $value;
}
```

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```
}  
  
public function setEmail($value) {  
    $this->_email = $value;  
}  
  
public function setActivationKey($value) {  
    $this->_activationKey = $value;  
}  
  
public function setSessionKey($value) {  
    $this->_sessionKey = $value;  
}
```

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Apache Ant Build file

```
<!--
  Document   : build.xml
  Created on : April 20, 2011, 2:10 PM
  Author    : JFrankel
  Description: An ant build file
-->

<project name="origin" default="init">

  <!-- Import Properties -->
  <property file="build.properties" />
  <property file="${dir.rev}" />

  <!-- Main Method -->
  <target name="init" depends="revision">
    <echo>Starting Ant Build...</echo>
    <antcall target="copy"/>
    <antcall target="minify.html"/>
    <antcall target="optimize.png"/>
    <antcall target="optimize.jpg"/>
    <antcall target="compress.css"/>
    <antcall target="compress.js"/>
    <echo>Done!</echo>
  </target>

  <target name="copy" depends="clean">
    <echo>Starting Build Publish...</echo>
    <mkdir dir="../${dir.publish}"/>
    <copy todir="../${dir.publish}">
      <fileset dir="..">
        <exclude name="**/*.js"/>
        <exclude name="**/*.css"/>
        <exclude name="**/css/libs/**"/>
        <exclude name="**/${dir.build}/**"/>
        <exclude name="**/${dir.publish}/**"/>
      </fileset>
    </copy>
  </target>

  <!-- Clean up previous build directory -->
  <target name="clean">
    <echo>Cleaning previous build R.${build.rev}...</echo>
    <delete dir="../${dir.publish}"/>
  </target>

  <!-- Revision Control -->
  <target name="revision">
    <echo>Creating a new revision...</echo>
    <propertyfile file="${dir.rev}">
      <entry key="build.rev" type="int" default="0000" operation="+" pattern="0000"/>
      <entry key="build.date" type="date" value="now" pattern="dd.MM.yyyy HH:mm:ss" />
    </propertyfile>
    <property file="${dir.rev}"/>
  </target>
</project>
```

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```
</target>
```

```
<!-- Project Upload -->
```

```
<target name="upload">
```

```
  <ftp server = "${ftp.servername}"
        userid = "${ftp.userid}"
        password = "${ftp.passwd}"
        port = "${ftp.port}"
        remotedir = "${ftp.dir}"
        passive = "${ftp.passive}"
        binary = "${ftp.binary}">
```

```
    <!-- fileset node dir defines root directory we want to collect -->
```

```
    <fileset dir=".">
```

```
      <include name="${dir.publish}/*"/>
```

```
    </fileset>
```

```
  </ftp>
```

```
</target>
```

```
<!-- Compress HTML -->
```

```
<target name="minify.html">
```

```
  <echo>Minify HTML, removing spaces, compress inline js and CSS, removing unnecessary quotes...</echo>
```

```
  <apply executable="java" parallel="false" force="true" dest="../${dir.publish}"/>
```

```
    <fileset dir="../${dir.publish}/" includes="**/*.html"/>
```

```
    <arg value="-jar"/>
```

```
    <arg path="tools/htmlcompressor-0.9.3.jar"/>
```

```
    <arg line="--type html" />
```

```
    <arg line="--remove-intertag-spaces"/>
```

```
    <arg line="--compress-js"/>
```

```
    <arg line="--remove-quotes"/>
```

```
    <arg line="--compress-css"/>
```

```
    <srcfile/>
```

```
    <arg value="-o"/>
```

```
    <mapper type="identity"/>
```

```
    <targetfile/>
```

```
  </apply>
```

```
</target>
```

```
<!-- Main Compression Method -->
```

```
<target name="compress">
```

```
  <java jar="${tools.yui}" fork="true">
```

```
    <arg value="${file}" />
```

```
    <arg value="-o"/>
```

```
    <arg value="${file}" />
```

```
  </java>
```

```
</target>
```

```
<!-- JS Compress -->
```

```
<target name="compress.js" depends="concat.js">
```

```
  <echo>Compressing JS...</echo>
```

```
  <!-- call another method -->
```

```
  <antcall target="compress">
```

```
    <param name="file" value="../${dir.publish}/${dir.js}/plugin-${build.rev}.js" />
```

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```
</antcall>  
</target>
```

```
<!-- CSS Compress -->  
<target name="compress.css" depends="concat.css">  
  <echo>Compressing CSS...</echo>  
  <!-- call another method -->  
  <antcall target="compress">  
    <param name="file" value="../${dir.publish}/${dir.css}/stylesheet-${build.rev}.css" />  
  </antcall>  
</target>
```

```
<!-- Concatentate JS -->  
<target name="concat.js">  
  <echo>Concatentating JS...</echo>  
  <concat destfile="../${dir.publish}/${dir.js}/plugin-${build.rev}.js">  
    <fileset dir="../${dir.js}"/>  
    <exclude name="**/${file.jquery}"/>  
    <!--  
        Concatentate all js files with the prefix .min in the  
        JS directory  
    -->  
    <include name="**/*.js" />  
  </fileset>  
</concat>  
</target>
```

```
<!-- Concatentate CSS -->  
<target name="concat.css">  
  <echo>Concatentating CSS...</echo>  
  <concat destfile="../${dir.publish}/${dir.css}/stylesheet-${build.rev}.css">  
    <fileset dir="../${dir.css}"/>  
    <exclude name="fonts/*.css"/>  
    <include name="**/*.css" />  
  </fileset>  
</concat>  
</target>
```

```
<!-- Optimize PNG files -->  
<target name="optimize.png">  
  <echo>Optimizing PNG files...</echo>  
  <apply executable="${tools.png}" osfamily="windows">  
    <arg value="-o7"/>  
    <fileset dir="../${dir.publish}/${dir.images}"/>  
    <!--  
        This line will include all png files that are in  
        child directories of the fileset dir attribute  
    -->  
    <include name="**/*.png"/>  
  </fileset>  
</apply>  
</target>
```

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```
<!-- Optimize JPG files (Make sure ImageMagick is installed) -->
<target name="optimize.jpg">
  <echo>Optimize JPG files...</echo>
  <apply executable="${tools.jpg.exec}" osfamily="windows">

    <!-- Strip Meta Data (Could easily save 6kb per image)-->
    <arg value="-strip"/>
    <arg value="-quality"/>
    <arg value="${tools.jpg.qual}"/>

    <fileset dir="../${dir.publish}/${dir.images}"/>

    <!--
      This line will include all jpg files that are in
      child directories of the fileset dir attribute
    -->
    <include name="**/*.jpg"/>
  </fileset>
</apply>
</target>
</project>
```

Code Samples

Coldfusion and MS SQL Query

```
<cffunction name="getModelParameters" access="private" output="false" returnType="query">
  <cfargument name="argModel" type="String" required="true" displayName="argModel">
  <cfargument name="argAccount" type="String" required="true" displayName="argAccount">
  <cfargument name="argBank" type="String" required="true" displayName="argBank">

  <cfquery name="queryModelParameters" datasource="#DATASOURCE#">
    SELECT DISTINCT
      m.Name,
      m.Name + ' : ' +
      mp.parameter1 + ' : ' +
      (CASE m.Name
        WHEN 'SOV' THEN
          (CASE mp.Mode
            WHEN '1' THEN 'Trend'
            WHEN '0' THEN 'Non-Trend'
            ELSE '_' END)
        ELSE mp.parameter2 + ' : ' +
          (CASE mp.direction
            WHEN '0' THEN 'UD'
            WHEN '1' THEN 'U'
            WHEN '-1' THEN 'D'END)
        END)
      as Model_Full_Name,
      m.Model_ID,
      mp.Parameter1,
      CASE ISNULL(mp.Mode, '')
        WHEN '' THEN '-'
        ELSE mp.Mode
      END as Mode,
      CASE ISNULL(mp.Parameter2, '')
        WHEN '' THEN 0
        ELSE CONVERT(float, mp.Parameter2)
      END as Parameter2,
      mp.parameter3,
      mp.parameter4,
      mp.parameter5,
      mp.Model_Parameter_ID,
      c.Currency,
      mp.direction as Bias,
      rfx.Quantity,
      rfx.Round_Up_Down,
      rfx.Round_To,
      rfx.Weighted_Percent,
      rfx.Strength,
      rfx.Allocation,
      rfx.R_FAMP_ID,
      a.Name AS Account,
      a.Account_ID,
      co.Name AS Bank,
      co.Counterparty_ID,
      c2.Currency AS Major_Currency,
      cp.Currency_Pair,
      cp.Short_Currency_Pair
    FROM
      dbo.Model_Parameters AS mp INNER JOIN
      dbo.Models AS m ON mp.Model_ID = m.Model_ID INNER JOIN
      dbo.R_FX_Account_Model_Parameter AS rfx ON mp.Model_Parameter_ID =
```

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```
    rfx.Model_Parameter_ID INNER JOIN
    dbo.Currencies AS c ON rfx.Traded_Currency_ID = c.Currency_ID INNER JOIN
    dbo.Accounts AS a ON rfx.Account_ID = a.Account_ID INNER JOIN
    dbo.Counterparties as co ON rfx.Counterparty_ID = co.Counterparty_ID
    INNER JOIN
    dbo.Currency_Pairs AS cp ON rfx.Currency_Pair_ID = cp.Currency_Pair_ID
    INNER JOIN
    dbo.Currencies AS c2 ON cp.Major_Currency_ID = c2.Currency_ID
WHERE
    (rfx.Active_Flag = '1')
    <cfif arguments.argModel NEQ 'All'>AND m.Name = <cfqueryparam
        cfsqltype="cf_sql_varchar" value="#argModel#"></cfif>
    <cfif arguments.argBank NEQ 'All'>AND co.Counterparty_ID = <cfqueryparam
        cfsqltype="cf_sql_integer" value="#argBank#"></cfif>
    <cfif arguments.argAccount NEQ 'All'>AND a.Account_ID = <cfqueryparam
        cfsqltype="cf_sql_integer" value="#argAccount#"></cfif>
ORDER BY
    m.Name,
    c.Currency,
    a.Name,
    co.Name
</cfquery>

<cfreturn queryModelParameters>
</cffunction>
```