AngularJS SQL

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The code from the previous chapter can also be used to read from databases.

Fetching Data From a PHP Server Running MySQL

AngularJS Example

<div ng-app="myApp" ng-controller="customersCtrl">   
  
<table>  
  <tr ng-repeat="x in names">  
    <td>{{ x.Name }}</td>  
    <td>{{ x.Country }}</td>  
  </tr>  
</table>  
  
</div>  
  
<script>  
var app = angular.module('myApp', []);  
app.controller('customersCtrl', function($scope, $http) {  
    $http.get("http://www.w3schools.com/angular/customers\_mysql.php")  
    .then(function (response) {$scope.names = response.data.records;});  
});  
</script>

[Try it Yourself »](http://www.w3schools.com/angular/tryit.asp?filename=try_ng_customers_mysql)

Fetching Data From an ASP.NET Server Running SQL

AngularJS Example

<div ng-app="myApp" ng-controller="customersCtrl">   
  
<table>  
  <tr ng-repeat="x in names">  
    <td>{{ x.Name }}</td>  
    <td>{{ x.Country }}</td>  
  </tr>  
</table>  
  
</div>  
  
<script>  
var app = angular.module('myApp', []);  
app.controller('customersCtrl', function($scope, $http) {  
    $http.get("http://www.w3schools.com/angular/customers\_sql.aspx")  
    .then(function (response) {$scope.names = response.data.records;});  
});  
</script>

[Try it Yourself »](http://www.w3schools.com/angular/tryit.asp?filename=try_ng_customers_sql)

Server Code Examples

The following section is a listing of the server code used to fetch SQL data.

1. Using PHP and MySQL. Returning JSON.
2. Using PHP and MS Access. Returning JSON.
3. Using ASP.NET, VB, and MS Access. Returning JSON.
4. Using ASP.NET, Razor, and SQL Lite. Returning JSON.

Cross-Site HTTP Requests

Requests for data from a different server (than the requesting page), are called **cross-site** HTTP requests.

Cross-site requests are common on the web. Many pages load CSS, images, and scripts from different servers.

In modern browsers, cross-site HTTP requests **from scripts** are restricted to **same site** for security reasons.

The following line, in our PHP examples, has been added to allow cross-site access.

header("Access-Control-Allow-Origin: \*");

1. Server Code PHP and MySQL

<?php  
header("Access-Control-Allow-Origin: \*");  
header("Content-Type: application/json; charset=UTF-8");  
  
$conn = new mysqli("myServer", "myUser", "myPassword", "Northwind");  
  
$result = $conn->query("SELECT CompanyName, City, Country FROM Customers");  
  
$outp = "";  
while($rs = $result->fetch\_array(MYSQLI\_ASSOC)) {  
    if ($outp != "") {$outp .= ",";}  
    $outp .= '{"Name":"'  . $rs["CompanyName"] . '",';  
    $outp .= '"City":"'   . $rs["City"]        . '",';  
    $outp .= '"Country":"'. $rs["Country"]     . '"}';   
}  
$outp ='{"records":['.$outp.']}';  
$conn->close();  
  
echo($outp);  
?>

2. Server Code PHP and MS Access

<?php  
header("Access-Control-Allow-Origin: \*");  
header("Content-Type: application/json; charset=ISO-8859-1");  
  
$conn = new COM("ADODB.Connection");  
$conn->open("PROVIDER=Microsoft.Jet.OLEDB.4.0;Data Source=Northwind.mdb");  
  
$rs = $conn->execute("SELECT CompanyName, City, Country FROM Customers");  
  
$outp = "";  
while (!$rs->EOF) {  
    if ($outp != "") {$outp .= ",";}  
    $outp .= '{"Name":"'  . $rs["CompanyName"] . '",';  
    $outp .= '"City":"'   . $rs["City"]        . '",';  
    $outp .= '"Country":"'. $rs["Country"]     . '"}';   
    $rs->MoveNext();  
}  
$outp ='{"records":['.$outp.']}';  
  
$conn->close();  
  
echo ($outp);  
?>

3. Server Code ASP.NET, VB and MS Access

<%@ Import Namespace="System.IO"%>  
<%@ Import Namespace="System.Data"%>  
<%@ Import Namespace="System.Data.OleDb"%>  
<%  
Response.AppendHeader("Access-Control-Allow-Origin", "\*")  
Response.AppendHeader("Content-type", "application/json")  
Dim conn As OleDbConnection  
Dim objAdapter As OleDbDataAdapter  
Dim objTable As DataTable  
Dim objRow As DataRow  
Dim objDataSet As New DataSet()  
Dim outp  
Dim c  
conn = New OledbConnection("Provider=Microsoft.Jet.OLEDB.4.0;data source=Northwind.mdb")  
objAdapter = New OledbDataAdapter("SELECT CompanyName, City, Country FROM Customers", conn)  
objAdapter.Fill(objDataSet, "myTable")  
objTable=objDataSet.Tables("myTable")  
  
outp = ""  
c = chr(34)  
for each x in objTable.Rows  
if outp <> "" then outp = outp & ","  
outp = outp & "{" & c & "Name"    & c & ":" & c & x("CompanyName") & c & ","  
outp = outp &       c & "City"    & c & ":" & c & x("City")        & c & ","   
outp = outp &       c & "Country" & c & ":" & c & x("Country")     & c & "}"  
next  
  
outp ="{" & c & "records" & c & ":[" & outp & "]}"  
response.write(outp)  
conn.close  
%>

4. Server Code ASP.NET, Razor C# and SQL Lite

@{  
Response.AppendHeader("Access-Control-Allow-Origin", "\*")  
Response.AppendHeader("Content-type", "application/json")  
var db = Database.Open("Northwind");  
var query = db.Query("SELECT CompanyName, City, Country FROM Customers");  
var outp =""  
var c = chr(34)  
}  
@foreach(var row in query)  
{  
if outp <> "" then outp = outp + ","  
outp = outp + "{" + c + "Name"    + c + ":" + c + @row.CompanyName + c + ","  
outp = outp +       c + "City"    + c + ":" + c + @row.City        + c + ","  
outp = outp +       c + "Country" + c + ":" + c + @row.Country     + c + "}"  
}  
outp ="{" + c + "records" + c + ":[" + outp + "]}"  
@outp

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