

# AJAX WITH JQUERY & DATABASE

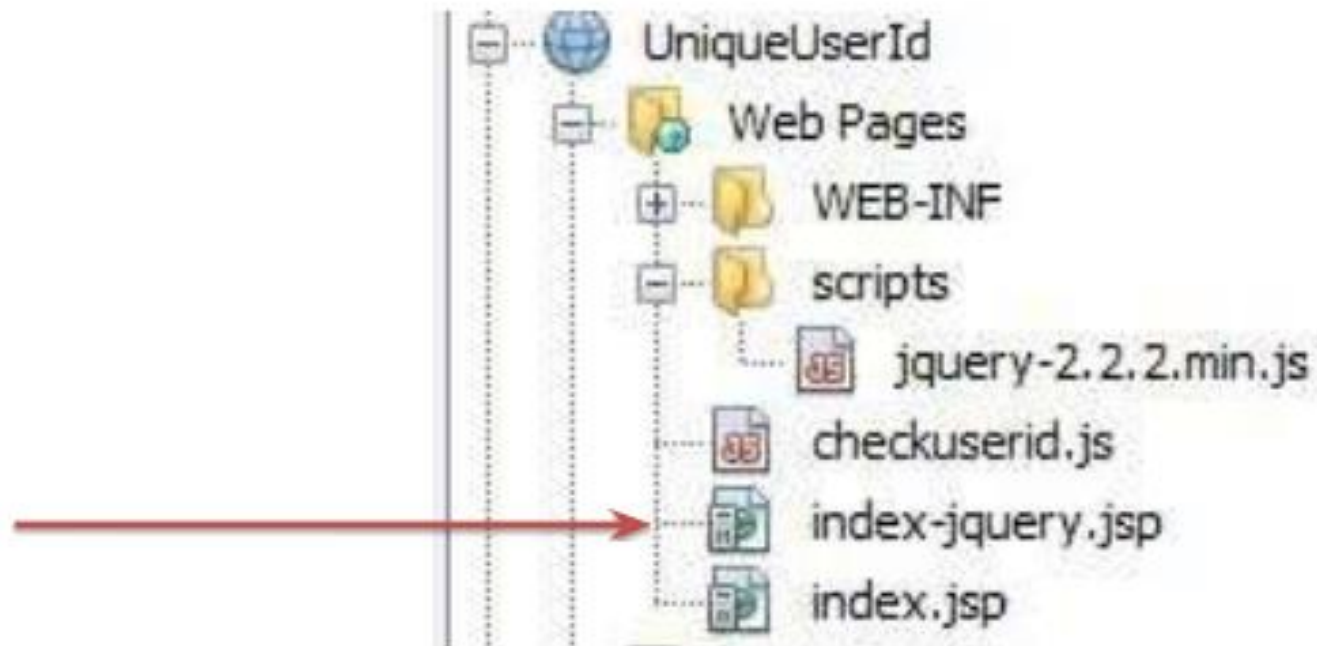
# AJAX using jQuery

- `$.ajax(optionsObject)`
  - optionsObject has the form {name:value, ...}
- `$.ajax({url: "address", success: handlerFunction});`
- Connection is made at the address and access the resource.
- When response from connection returns success, `handlerFunction()` is called with input as response passed by the resource at the address `address`.
- Other options of optionsObject
  - cache, data, dataType, error,type, username, password

## AJAX Application: Check unique user id

- We modify our same web application  
UniqueUserId
  - We use the same servlet for generating response to ajax query

Create another jsp page  
(index-jquery.jsp)



# jsp page (index-jquery.jsp)

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
  <head>
    <script src="scripts/jquery-2.2.2.min.js"></script>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <script type="text/javascript">
      function init() {
        useridField = document.getElementById("userid");
        statusField = document.getElementById("status");
      }
      function doChecking() {
        var serviceurl="checkuserid?userid=" + escape(useridField.value);
        $.ajax({ url: serviceurl, success: setMessage});
      }
    </script>
  </head>
  <body>
    <div>
      <div>
        <input type="text" value="" id="userid" />
        <input type="button" value="Check" />
      </div>
      <div>
        <input type="text" value="" id="status" />
      </div>
    </div>
  </body>
</html>
```

# jsp page (index-jquery.jsp)

```
function setMessage(responseXML){  
    var  
    statusElement=responseXML.getElementsByTagName("status")[0];  
    var status=statusElement.childNodes[0].nodeValue;  
    if(status=="NotAvailable"){  
        statusField.innerHTML = "<font color=red>This User Id is already in  
use. Please choose some other User Id.</font>";  
    }else{  
        statusField.innerHTML = "<font color=green>You can use this User  
ID.</font>";  
    }  
}  
</script>
```

# jsp page (index-jquery.jsp)

```
<title>Registration Page using jQuery</title>
</head>
<body onload="init();">
  <h1>Kindly fill up details for your registration</h1>
  <form name="registrationForm" action="register">
    <table border="0" cellpadding="5">
      <tr>
        <td>User Id:</td>
        <td><input type="textfield" name="userid" id="userid"
onchange="doChecking();" /></td>
        <td><div id="status"></div></td>
      </tr>
```

# jsp page (index-jquery.jsp)

```
<tr>
```

```
  <td>Name:</td>
```

```
  <td><input type="textfield" name="name"/></td>
```

```
  <td></td>
```

```
</tr>
```

```
<tr>
```

```
  <td>Semester:</td>
```

```
  <td><input type="textfield" name="name"/></td>
```

```
  <td></td>
```

```
</tr>
```



## jsp page (index-jquery.jsp)

```
<tr>
  <td></td>
  <td><input type="submit"/></td>
  <td></td>
</tr>
</table>
</form>
</body>
</html>
```

# Running the application



## Kindly fill up details for your registration

User Id:  This User Id is already in use. Please choose some other User Id.

Name:

Semester:



## Kindly fill up details for your registration

User Id:  You can use this User ID.

Name:

Semester:

## How to prevent browser from caching

```
$.ajax({ url: serviceurl,  
        success: setMessaage,  
        cache: "false" });
```

# AJAX WITH DATABASE

<div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div>Max. rows: <input type="text" value="100"/></div><div>Fetches Rows: 2</div></div>			Matching Rows:
#	ID	EMAIL	
1		1 fatema@gmail.com	
2		2 hbp@gmail.com	

# Index.html

```
<!DOCTYPE html>

<html>

<head>

<title>Email Finder Example</title>

<script>

var request;

function sendInfo(){

var email=document.vinform.email.value;

var url="emailfinder.jsp?email="+email;


if(window.XMLHttpRequest){

request=new XMLHttpRequest();

}

else if(window.ActiveXObject){

request=new ActiveXObject("Microsoft.XMLHTTP");

}
```

```
try{  
request.onreadystatechange=getInfo;  
request.open("GET",url,true);  
request.send();  
}catch(e){alert("Unable to connect to server");}  
}
```

```
function getInfo(){ if(request.readyState==4){ var  
val=request.responseText;  
document.getElementById('mylocation').innerHTML=val; } }
```

```
</script>
```

```
</head>
```

```
<body>
```

```
<marquee><h1>AJAX Email Checker Example</h1></marquee>
```

```
<form name="vinform">
```

```
<input type="email" name="email" placeholder="enter email"/>
```

```
<input type="button" onclick="sendInfo()" value="Check Availability"/>
```

```
<span id="mylocation"></span>
```

```
</form>
```

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

# Index.jsp

```
<%@ page import="java.sql.*" %>
<%
String email=request.getParameter("email");
if(email.contains("@")&&email.contains(".")){
try{
Class.forName("org.apache.derby.jdbc.ClientDriver")
;
Connection
con=DriverManager.getConnection("jdbc:derby://localhost:1527/R1","r1","r1");

PreparedStatement
ps=con.prepareStatement("select * from DEMO
where email=?");

ps.setString(1,email);

ResultSet rs=ps.executeQuery();
```

```
if(rs.next()){
out.print("Available!");
}else{
out.print("Unavailable!");
}
}catch(Exception e){out.print(e);}
}else{
out.print("Invalid email!");
}
```





# AJAX Email Checker Example

fatema@gmail.com  Available!



# AJAX Email Checker Example

Unavailable!