# Computación Ubicua

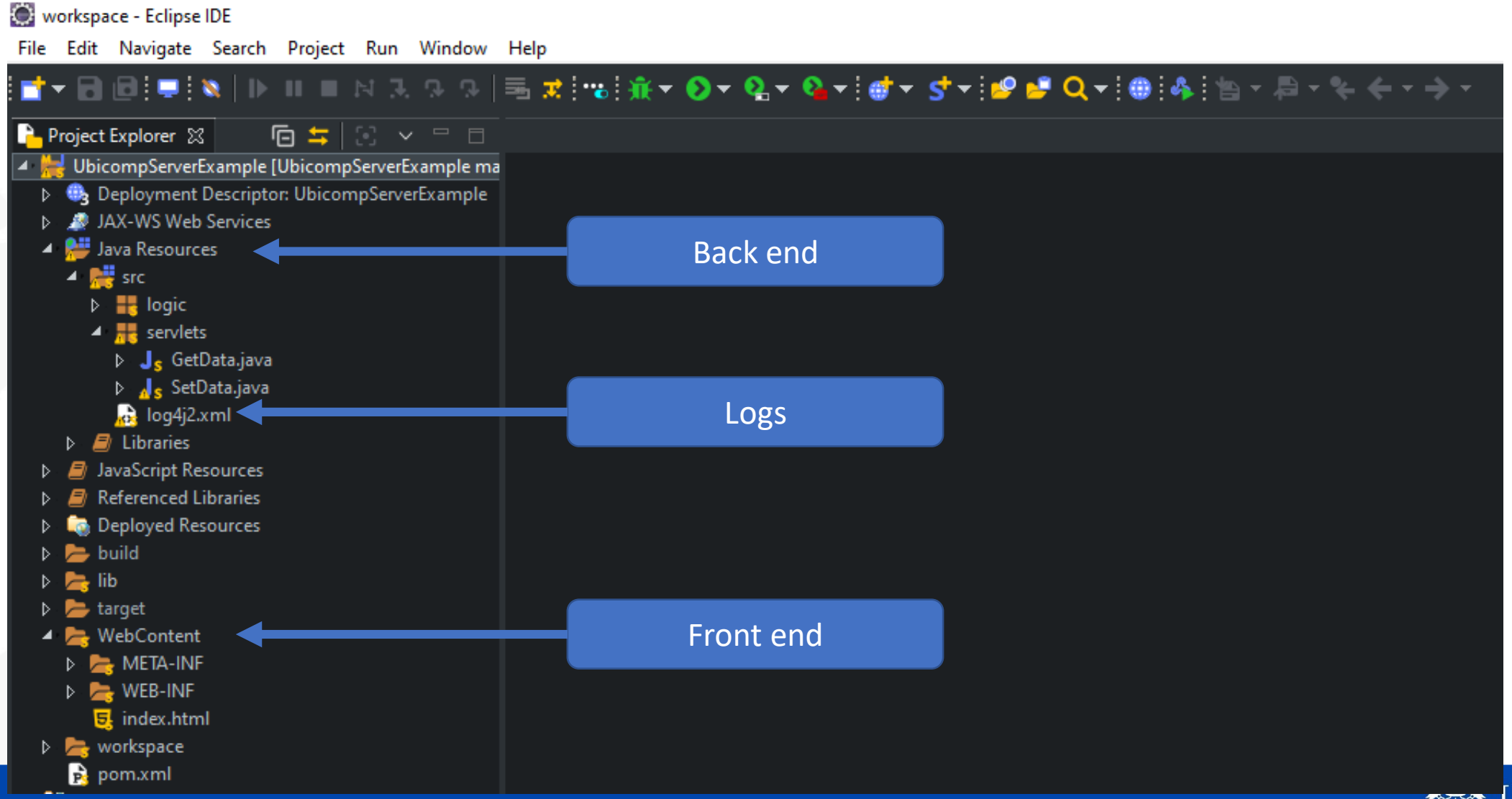
## Sesión 7 – Ejemplo de un proyecto Web

Ana Castillo Martínez

Javier Albert Segui

Universidad de Alcalá

# Estructura de un proyecto Web



# Ajax

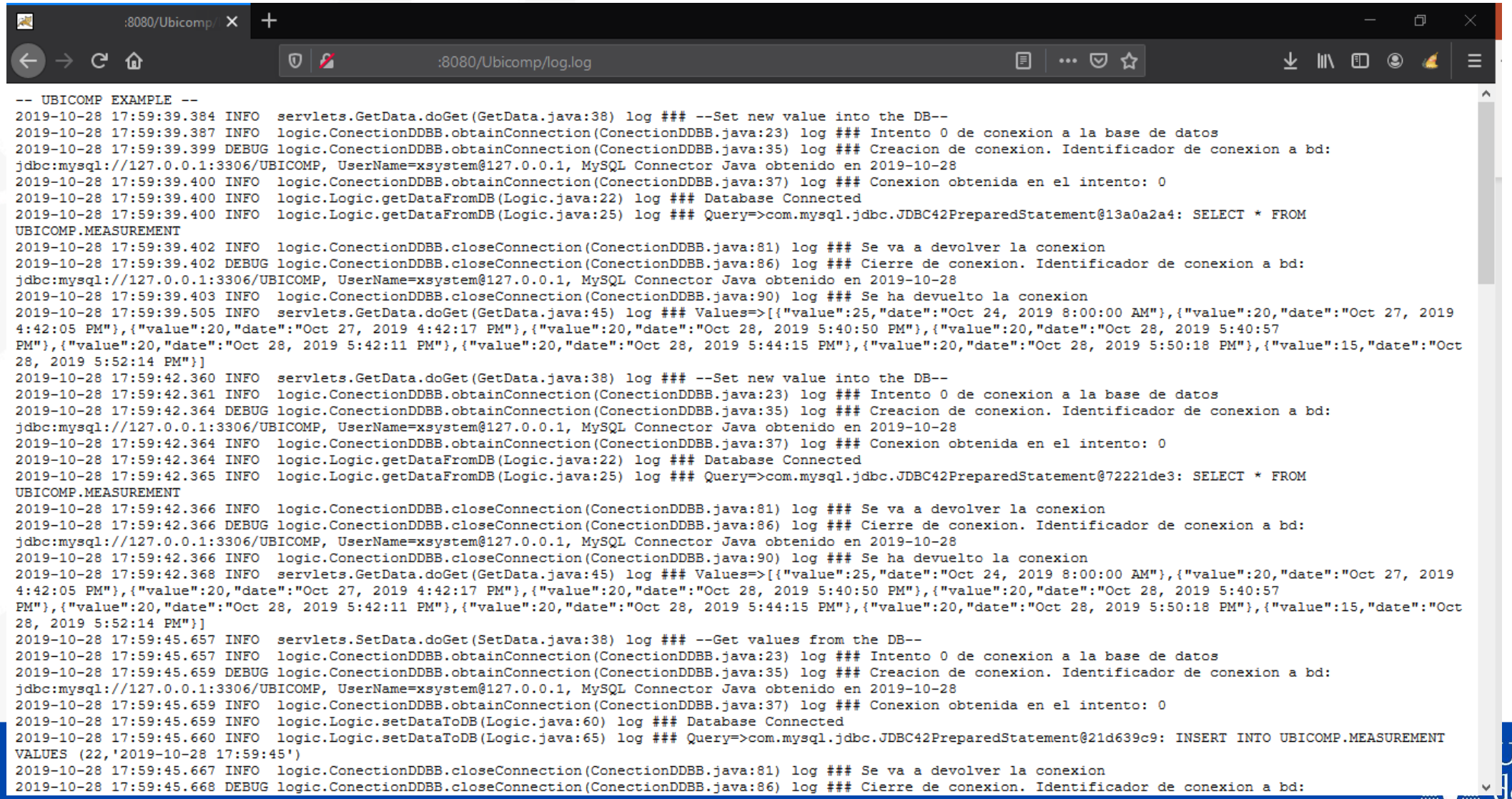
```
function loadData()
{
    $.ajax(
    {
       data:  {},
       url:   "/Ubicomp/GetData",
       type:  'post',
       async: false,
       success:  function (response)
       {
           var resp = JSON.parse(response);
           console.log(resp);
           $("#dataTable").empty();
           var newRow = "";
           $.each(resp, function (i, value)
           {
               newRow += "<tr>";
               newRow += "<td>" + value.date + "</td>";
               newRow += "<td>" + value.value + " °C</td>";
               newRow += "</tr>";
           });
           $("#dataTable").append(newRow);
       }
   });
}
```

```
function insertData()
{
    var value = $('#newValue').val();
    $.ajax(
    {
       data:  {value:value},
       url:   "/Ubicomp/SetData",
       type:  'post',
       async: false,
       success:  function (response)
       {
           loadData();
       }
   });
}
```

# Servlets

```java
package servlets;

import java.io.IOException;

@WebServlet("/SetData")
public class SetData extends HttpServlet
{
    private static final long serialVersionUID = 1L;

    public SetData(){
        super();
    }

    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException{
        LCon.log.info("--Get values from the DB--");
        response.setContentType("text/html;charset=UTF-8");
        PrintWriter out = response.getWriter();
        try {
            int value = Integer.parseInt(request.getParameter("value"));
            Logic.setDataToDB(value);
        } catch (NumberFormatException nfe){
            out.println("-1");
            LCon.log.error("Number Format Exception: " + nfe);
        } catch (IndexOutOfBoundsException iobe) {
            out.println("-1");
            LCon.log.error("Index out of bounds Exception: " + iobe);
        } catch (Exception e){
            out.println("-1");
            LCon.log.error("Exception: " + e);
        } finally{
            out.close();
        }
    }
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
        doGet(request, response);
    }

}
```

# Mensajes de Log



# Pool de conexiones

*context: Bloc de notas

Archivo Edición Formato Ver Ayuda

```
<?xml version='1.0' encoding='utf-8'?>
<!--
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-->
<!-- The contents of this file will be loaded for each web application -->
<Context>

    <Resource
        name="jdbc/ubicomp" type="javax.sql.DataSource"
        maxActive="100" maxIdle="30" maxWait="10000"
        url="jdbc:mysql://localhost:3306/UBICOMP"
        driverClassName="com.mysql.jdbc.Driver"
        username="user" password="pass"
        factory="org.apache.commons.dbcp.BasicDataSourceFactory"
        validationQuery="SELECT COUNT(*) FROM MEASUREMENTS"
    />

</Context>
```

# Proyecto de ejemplo

https://github.com/acastillom3/Ubicomp.git