

Aufgabenblatt 8

BillboardServlet.java:

```
protected void doPost(HttpServletRequest request, HttpServletResponse
response)

    throws ServletException, IOException {
    String caller_ip = request.getRemoteAddr();
    System.out.println("BillBoardServer - POST (" + caller_ip + ")");
    // TODO implementation of doPost()!

    String message = request.getParameter("message");
    if (message != null) {
        bb.createEntry(message, caller_ip);
    }

    response.getWriter().close();
}

protected void doDelete(HttpServletRequest request, HttpServletResponse
response)

    throws ServletException, IOException {
    String caller_ip = request.getRemoteAddr();
    System.out.println("BillBoardServer - DELETE (" + caller_ip + ")");

    try {
        int id = Integer.parseInt(request.getParameter("id"));
        if (bb.getEntry(id).owner_ip.equals(caller_ip)) {
            bb.deleteEntry(id);
        }else{
            response.sendError(403, "Owner falsch!");
        }
    }
```

```

    } catch (NumberFormatException e) {
        response.sendError(400, "Malformed Parameter id!");
    }
    response.getWriter().close();
}

protected void doPut(HttpServletRequest request, HttpServletResponse
response)
    throws ServletException, IOException {
    String caller_ip = request.getRemoteAddr();
    System.out.println("BillBoardServer - PUT (" + caller_ip + ")");

    try {
        int id = Integer.parseInt(request.getParameter("id"));
        String message = request.getParameter("message");
        if (message != null) {
            if (bb.getEntry(id).owner_ip.equals(caller_ip)) {
                bb.updateEntry(id, message, caller_ip);
            }else{
                response.sendError(403, "Owner falsch!");
            }
        } else {
            response.sendError(400, "Parameter message missing!");
        }
    } catch (NumberFormatException e) {
        response.sendError(400, "Malformed Parameter id!");
    }

    response.getWriter().close();
}

```

BillboardJSONAdapter.java:

```

@Override

public String readEntries(String caller_ip) {
    StringBuilder stringBuilder = new StringBuilder();
    stringBuilder.append("{\n");
    stringBuilder.append("\t\t\"billboard\":[\n");
    for(int i = 0; i < this.billboard.length; i++){
        stringBuilder.append("\t\t" + readEntry(i,caller_ip));
        if(i != this.billboard.length - 1){
            stringBuilder.append(",");
        }
        stringBuilder.append("\n");
    }
    stringBuilder.append("\t]\n");
    stringBuilder.append("}");
    return stringBuilder.toString();
}

@Override

public String readEntry(int idx, String caller_ip) {
    BillboardEntry billboardEntry = this.billboard[idx];
    return
String.format("{\"id\":%d,\"message\":\"%s\",\"readonly\":%b}",
billBoardEntry.id,billBoardEntry.text,!billBoardEntry.owner_ip.equals(calle
r_ip));
}

```

Billdboard.js:

```

function getxyzHttpRequest(url) {
    fetch(url).then(response=>response.json()).then(buildTable));
}

function postHttpRequest(url) {
    const inputElement = document.getElementById("contents")

```

```

    fetch(url + "?message=" +
encodeURIComponent(inputElement.value), {method: "POST"});
}

function putHttpRequest(url, id) {
    let inputElement = $('input_field_${id}');
    fetch(url + `?message=${inputElement.value}&id=${id}`, {method: "PUT"});
}

function deleteHttpRequest(url, id) {
    fetch(url + `?id=${id}`, {method: "DELETE"});
}

function buildTable(object){
    console.log(object)
    let postersElement = $("posters");
    postersElement.innerHTML = "";
    let tableElement = document.createElement("table");
    tableElement.rules = "none";
    tableElement.cellSpacing = 4;
    tableElement.cellPadding = 5;
    tableElement.border = "1";

    for(let post of object.billboard){
        let postElement = document.createElement("tr");
        tableElement.appendChild(postElement);

        let idElement = document.createElement("td");
        postElement.appendChild(idElement);
        idElement.innerText = post.id;

        let messageElement = document.createElement("td");
        postElement.appendChild(messageElement);
        let messageInputElement = document.createElement("input");
        messageElement.appendChild(messageInputElement);
    }
}

```

```

messageInputElement.type = "text"
messageInputElement.size = 100;
messageInputElement.minLength = 100;
messageInputElement.maxLength = 100;
messageInputElement.id = `input_element_${post.id}`;
messageInputElement.value = post.message;
messageInputElement.readOnly = post.readonly;

let updateElement = document.createElement("td");
postElement.appendChild(updateElement);
let deleteElement = document.createElement("td");
postElement.appendChild(deleteElement);
if(!post.readonly){
    let updateButtonElement = document.createElement("button");
    updateElement.appendChild(updateButtonElement);
    updateButtonElement.innerText = "Update";

    updateButtonElement.addEventListener("click", ()=>postHttpRequest("BillBoard
Server",post.id));

    let deleteButtonElement = document.createElement("button");
    deleteElement.appendChild(deleteButtonElement);

    deleteButtonElement.addEventListener("click", ()=>deleteHttpRequest("BillBoa
rdServer",post.id));

    deleteButtonElement.innerText = "Delete";
}
}
postersElement.appendChild(tableElement);

}

```

Testen des Billboards auf 2 verschiedenen Clients:

Plakatwand

Neues Plakat einstellen:

<input type="text" value="Test"/>	<input type="button" value="Post"/>
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Plakate:

0	<input type="text" value="<empty>"/>	
1	<input type="text" value="Hallo"/>	
2	<input type="text" value="Test"/>	<input type="button" value="Update"/> <input type="button" value="Delete"/>
3	<input type="text" value="<empty>"/>	
4	<input type="text" value="<empty>"/>	
5	<input type="text" value="<empty>"/>	
6	<input type="text" value="<empty>"/>	
7	<input type="text" value="<empty>"/>	
8	<input type="text" value="<empty>"/>	
9	<input type="text" value="<empty>"/>	

Plakatwand

Neues Plakat einstellen:

<input type="text" value="Hallo"/>	<input type="button" value="Post"/>
------------------------------------	-------------------------------------

Plakate:

0	<input type="text" value="<empty>"/>	
1	<input type="text" value="Hallo"/>	<input type="button" value="Update"/> <input type="button" value="Delete"/>
2	<input type="text" value="Test"/>	
3	<input type="text" value="<empty>"/>	
4	<input type="text" value="<empty>"/>	
5	<input type="text" value="<empty>"/>	
6	<input type="text" value="<empty>"/>	
7	<input type="text" value="<empty>"/>	
8	<input type="text" value="<empty>"/>	
9	<input type="text" value="<empty>"/>	