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| Internationale Hochschule, DSGW | 04.12.2023 |
| Semester 1 |  |
| Dozent / Lehrer: Herr Ledwon |  |
| Referent: Müller Korbinian |  |

**Entwicklung einer Webapp**

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## Tools

### Docker

Dockerfile

*FROM* php:8.0*-*apache as base  
*RUN apt-get -*y update  
*RUN apt-get -*y upgrade  
*RUN docker-php-ext-install* pdo pdo\_mysql mysqli  
*RUN docker-php-ext-enable* mysqli  
*COPY* .*/*src */*var*/*www*/*html  
*COPY* .*/*php.ini */*usr*/*local*/*etc*/*

docker-compose.yml

version: "3.9"  
services:  
 php:  
 container\_name: php\_Service  
 restart: always  
 build:  
 context: ./app  
 dockerfile: Dockerfile  
 target: base  
 ports:  
 - "80:80"  
 volumes:  
 - ./app/src:/var/www/html  
  
 sql:  
 container\_name: MySql\_Service  
 image: mysql  
 restart: always  
 environment:  
 MYSQL\_DATABASE: user  
 MYSQL\_ROOT\_PASSWORD: zitrone  
 MYSQL\_PASSWORD: zitrone  
 volumes:  
 - ./database/user.sql:/docker-entrypoint-initdb.d/user.sql  
  
 phpmyadminZ%Ttttttttttttttttttttttttttttttttttttttt

Gggggggggggggggggggggggg5,zzzzzzzzzzzzzzzzzzzzzzzz:  
 image: phpmyadmin  
 restart: always  
 ports:  
 - 8088:80  
 environment:  
 - PMA\_ARBITRARY=1

### Github

<https://github.com/SpaRaw/IU_GWD_Chatroom.git>

## Registrierung

Registrierung.php

*if*(*isset*($\_POST["pw"], $\_POST["user"])){  
 $pw = *hash*('sha256', $\_POST["pw"]);  
 $user = $\_POST["user"];  
 $servername = "sql";  
 $username = "root";  
 $password = "zitrone";  
 $sql = "INSERT INTO `user`(`user\_name`, `passwort`) VALUES (?, ?)";  
 *try* {  
 $conn = *new* PDO("mysql:host=$servername;dbname=user", $username, $password);  
 // set the PDO error mode to exception  
 $conn->setAttribute(PDO::ATTR\_ERRMODE, PDO::ERRMODE\_EXCEPTION);  
 $stmt = $conn->prepare($sql);  
 $stmt->execute([$user, $pw]);  
 *echo*("<script>*location*.href='/'; </script>");  
 } *catch*(PDOException $e) {  
 *echo* "Connection failed: " . $e->getMessage();  
 }  
}

register.js

*function isPWsecure*(pw){  
 *let* pwStatus = [];  
 *if*(pw.length < 8){  
 pwStatus.push("8 Zeichen");  
 }  
 *if*(pw.match(/[A*-*Z]/)==*null*){  
 pwStatus.push("Großbuchstaben");  
 }  
 *if*(pw.match(/\W/)== *null*){  
 pwStatus.push("Sonderzeichen");  
 }  
 *return* pwStatus;  
}

## API

Api.php

*<?php*$servername = "sql";  
$username = "root";  
$password = "zitrone";  
$sql\_fetch = "SELECT posts.ID, posts.content, user.user\_name FROM `posts` LEFT JOIN `user` ON posts.post\_id=user.ID ORDER BY `posts`.`ID` DESC ";  
*try* {  
 $conn = *new* PDO("mysql:host=$servername;dbname=user", $username, $password);  
 // set the PDO error mode to exception  
 $conn->setAttribute(PDO::ATTR\_ERRMODE, PDO::ERRMODE\_EXCEPTION);  
 *if* ($\_SERVER['REQUEST\_METHOD'] === 'POST'){  
 $sql\_insert = "INSERT INTO `posts`(`post\_id`, `content`) VALUES ('" . *trim*($\_POST["user"]) . "','" . *trim*($\_POST["content"]) . "')";  
 $stmt = $conn->prepare($sql\_insert);  
 $stmt->execute();  
 *echo*("<script>*location*.href='/chat.php';</script>");  
 }*else*{  
 $stmt = $conn->prepare($sql\_fetch);  
 $stmt->execute();  
 $result = $stmt->fetchAll();  
 *echo*(*json\_encode*(['obj' => $result]));  
 }  
  
} *catch* (PDOException $e) {  
 *echo* "Connection failed: " . $e->getMessage();  
}

## Chatroom

Chat.php

*<?php  
 if*(*empty*($\_SESSION["UID"])){  
 $\_SESSION["UID"] = 2;  
 }  
*?>*<div *class*="contentLimiter">  
 <div *id*="posts">  
  
 </div>

handlePost.js

*function fetchNewPosts*(){  
 *console*.log("fetch");  
 *fetch*("/api.php")  
 .then(response => response)  
 .then(response => response.text())  
 .then(body => {  
 *let* data = *JSON*.parse(body).obj;  
 *let* newHeighestIndex = data[0].ID;  
 *let* newPosts = data.slice(0, newHeighestIndex-*heighestIndex*)  
 *if*(newPosts.length != 0){  
 *while*(newPosts.length > 0){  
 *let* newesPost = *document*.getElementsByClassName("postCard")[0]  
 *let* post = newPosts.pop();  
 *console*.log(post);  
 *let* div = *document*.createElement("div");  
 div.classList.add("postCard");  
 *let* header = *document*.createElement("h2");  
 header.innerHTML = post.user\_name;  
  
 *let* text = *document*.createElement("p");  
 text.innerHTML = post.content;  
  
 div.appendChild(header);  
 div.appendChild(text);  
 *container*.insertBefore(div, newesPost);  
 }  
 *heighestIndex* = newHeighestIndex;  
 }  
  
 })  
 *setTimeout*(*fetchNewPosts*, 500);  
}