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Entwicklung einer Webapp

Inhalt:

- 1. Tools
- 2. Registrierung
- 3. API
- 4. Chatroom

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

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 = "sq1";
    $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");
    }
}</pre>
```

```
}
return pwStatus;
}
```

API

Api.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 ";
    $conn = new PDO("mysql:host=$servername;dbname=user", $username,
$password);
    $conn->setAttribute(PDO::ATTR ERRMODE, PDO::ERRMODE EXCEPTION);
    if ($ 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>");
        $stmt = $conn->prepare($sql_fetch);
        $result = $stmt->fetchAll();
 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);
}
```