

PRAKTIKUM SISTEM BASIS DATA

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1. Implementasikan regex di (POST) /user/register dan (PUT) /user dengan yang telah anda buat di TP, screenshot bagian kode yang mengimplementasikannya, serta body dan response yang gagal dikarenakan tidak memenuhi ketentuan regex.

```
Kode

Screenshot

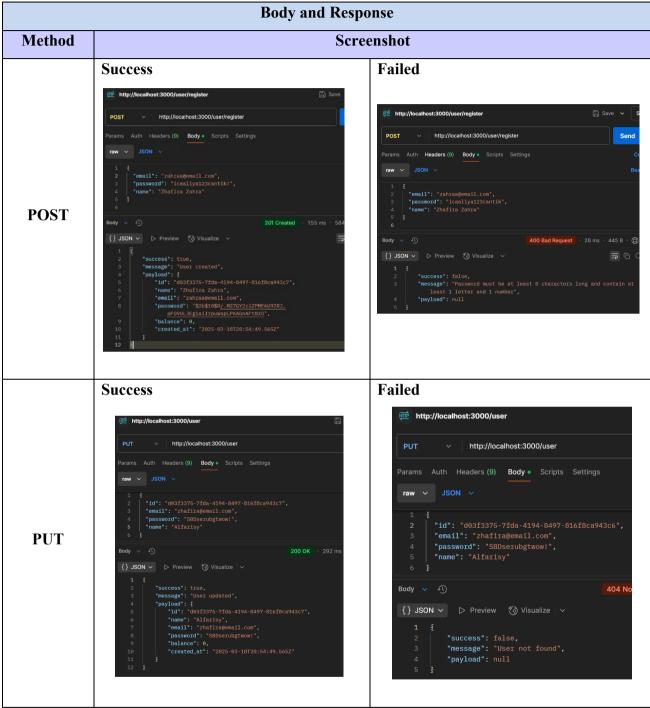
const regexEmail = /^[a-zA-z0-9._-]+@[a-zA-z0-9.-]+\.[a-zA-z]{2,6}$/;
const regexPassword = /^(?-.*[A-Za-z])(?-.*\d)(?-.*[l@#5X^8*(),.?":{}| \>])[A-Za-z\d!@#5X^8*(),.?":{}| \>]{8,}$/;

exports.registerUser = async (req, res) => {
  const { email, password, name } = req.body;

if (!regexEmail.test(email)) {
    return baseResponse(res, false, 400, "Invalid email format", null);
}

if (!regexPassword.test(password)) {
    return baseResponse(res, false, 400, "Password must be at least 8 characters long and contain at least 1 letter, 1 number, and 1 special character", null);
}
```







2. Hash password yang masuk di (POST) /user/register dan (PUT) /user menggunakan bcrypt lalu simpan di database, screenshot bagian kode implementasinya serta hasil hash di database

```
Kode
Screenshot

const bcrypt = require("bcryptjs");

const bcrypt = require("bcryptjs");

const (email, password, name ) = req.body;

if (lregextmil.test(email)) {
    return baseResponse(ges, false, 400, "Invalid email format", null);
    }

if (lregextmassword.test(password)) {
    return baseResponse(res, false, 400, "Password must be at least 8 characters long and contain at least 1 letter, 1 number, and 1 special charactry {
    const existingUser = await userRepository.getUserByEmail(email);
    if (existingUser) {
        return baseResponse(res, false, 400, "Email already used", null);
    }

    const hashedPassword = await bcrypt.hash(password, 10);
    const newUser = await userRepository.createUser((email, password: hashedPassword, name ));
    return baseResponse(res, true, 201, "User created", newUser");
    catch (error) {
        return baseResponse(res, false, 500, "Error creating user", error);
    }
};
```

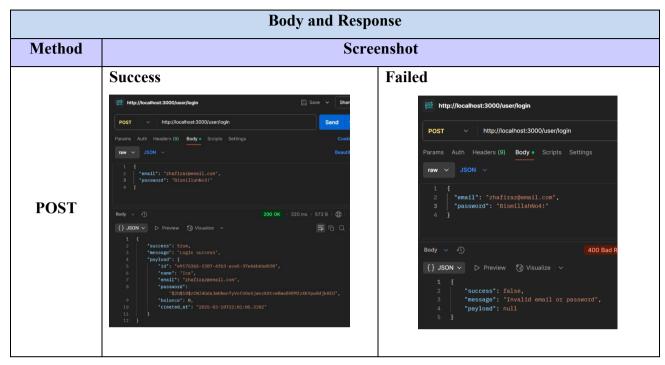
Hasil Hash di Database						
Method	Screenshot					
	id uutd					
Hasil Hash	tograsco-ascc-asc-asc-asconintaatro charter can zama aconascon scota asconascingo charter can aconasconascingo charter can aconascingo charter can aconas					



3. Compare password hash di database dengan yang di request pada endpoint (POST) /user/login, screenshot bagian kode yang mengimplementasikannya

Kode Screenshot exports.login = async (req, res) => { const { email, password } = req.body; if (!email || !password) { return baseResponse(res, false, 400, "Email and password are required", null); } try { const user = await userRepository.getUserByEmail(email); if (!user) { return baseResponse(res, false, 400, "Invalid email or password", null); } const isPasswordValid = await bcrypt.compare(password, user.password); if (!isPasswordValid) { return baseResponse(res, false, 400, "Invalid email or password", null); } return baseResponse(res, true, 200, "Login success", user); } catch (error) { return baseResponse(res, false, 500, "Error logging in", error); } };





4. Implementasikan middleware CORS seperti yang telah anda buat di TP.

```
Screenshot
JS index.js > ...
     const express = require("express");
      require("dotenv").config();
     const cors = require("cors");
     const app = express();
     const port = process.env.PORT || 3000;
      app.use(
         origin: "https://os.netlabdte.com",
     app.use(express.json());
     app.use("/store", require("./src/routes/store.route"));
     app.use("/user", require("./src/routes/user.route"));
     app.use(`/item`, require(`./src/routes/item.route`));
     app.use("/transaction", require("./src/routes/transaction.route"));
     app.listen(port, () => {
       console.log(`Server is running on port ${port}`);
```



5. Jalankan Query pada Database



6. Lanjut Backend

7. Screenshot Response

Method	Endpoint	Success	Failed
POST	/user/register	http://localhost:3000/user/register	POST







