

PRAKTIKUM **SISTEM BASIS DATA**

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1. Screenshot hasil

Kode POST (user/register)

```
const emailRegex = /^{a-zA-Z0-9. %+-]+@[a-zA-Z0-9-]+\.[a-zA-Z]{2,}$/;
const passwordRegex = /^{(2-.*\d)(?-.*[@$1%*2&])[A-Za-z\d@$1%*?&]{8,}$/;

if (!email || !password || !name) {
    return baseResponse(
    res,
    false,
    400,
    "Email, password, and name are required",
    null
    );
}

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

if (!passwordRegex.test(password)) {
    return baseResponse(
    res,
    false,
    400,
    "Password must be at least 8 characters long, contain at least one number an null
    );
};
```

Kode PUT (user/)



	Keterangan	Screenshot
POST (user/register)	Berhasil	<pre>"success": tame, "seasage": "User created', "payload : ["for "rofutor=c822-022-8024866ca", "seasage": "sizellows", "seasage": "sizellows", "seasage": "sizellows", "seasaged": "sizellows", "passessed": "\$28545864802785622.1876901.767enyAldayAMEVAABSOUMIVPTYMOIS", "balance": 8, "created_at": "2828-83-1872111136.2862"]</pre>
	Invalid email format	Temail: "wiellona@@mail.com", "password": "Password123@", "name": "wiellona"
	Password tidak sesuai requirements	Teach Teac
PUT (user/)	Berhasil	
	Invalid email error	1
	Password tidak sesuai requirements	



2. Screenshot

Kode POST (user/register)

```
try {
    const existingUser = await userRepository.getUserByEmail(email);
    if (existingUser) {
        return baseResponse(res, false, 400, "Email already used", null);
    }
    const hashedPassword = await bcrypt.hash(password, saltRounds);
    const user = await userRepository.createUser({
        remail,
        password: hashedPassword,
        name,
        remail,
        remail already used",
        remail
```

Kode PUT (user/)

//user.controller.js

```
// Hash password sebelum update
const hashedPassword = await bcrypt.hash(password, saltRounds);

// Update user dengan password yang sudah di-hash
const updatedUser = await userRepository.updateUser({
    id,
    name,
    email,
    password: hashedPassword,
});
```

// user.repository.js (buat update hash password ke database)

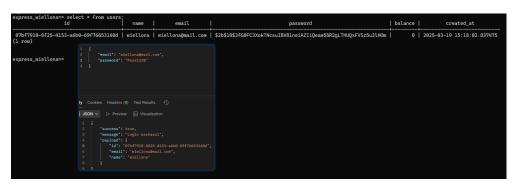
```
exports.getUserById = async (id) => {
    try {
        const result = await db.query("SELECT * FROM users WHERE id = $1", [id]);
        return result.rows[0] || null;
        catch (error) {
        console.error("Error getting user by ID:", error);
        return null;
    }
};
```

Hasil Database



```
express_wiellona=> select * from users;
    id | name | email | password | ba
lance | created_at | env@jangan.public.ya | $2b$10$1MSfySGXLU9r79cOGpNCLuUgXx9OrQ3cdJi4AgzpzMMy5VkSoLLxu |
0 | 2025-03-13 08:53:40,338952 | env@jangan.public.ya | $2b$10$5CBRkhBNmEcze6/Vvjtxke.g5I4gHAI/seqkb0TWMNDNQQ/R0PsFa |
0 | 2025-03-19 04:30:23.634852 | bukan wiellona | wielly@mail.com | $2b$10$5CBRkhBNmEcze6/Vvjtxke.g5I4gHAI/seqkb0TWMNDNQQ/R0PsFa |
0 | 2025-03-19 04:30:23.634852 | bukan wiellona | wiellonaupdate@mail.com | $2b$10$5ZMJCZ0jTYoEeTG31ys75es0rwV0AvHses16EgoipWmv81C9zyRUe |
0 | 2025-03-19 04:11:36.265659 |
(3 rows) |
express_wiellona=> select * from users;
SSL SYSCALL error: EOF detected
The connection to the server was lost. Attempting reset: Succeeded.
psqL (17.2, server 17.4)
SSL connection (protocol: TLSv1.3, cipher: TLS_AES_256_GCM_SHA384, compression: off, ALPN: postgresql)
express_wiellona=> select * from users;
in a name | email | password |
| balance | created_at | name | email | password | |
| balance | created_at | name | email | password |
| balance | created_at | name | email | password |
| balance | created_at | name | email | password |
| balance | created_at | name | email | password |
| balance | created_at | name | email | password |
| balance | created_at | name | email | password |
| balance | created_at | name | email | password | password |
| balance | created_at | name | email | password | pas
```

3. Screenshot



4. Screenshot



```
const express = require("express");
require("dotenv").config(); 6.3k (gzipped: 2.8k)

const app = express();
const port = process.env.PORT || 3000;
const cors = require("cors"); 4.5k (gzipped: 1.9k)

const corsOptions = {
    origin: "htttps://os.netlabdte.com",
    methods: ["GET", "POST", "PUT", "DELETE"],
};

app.use(cors(corsOptions));
```

5. Screenshot

```
express_wiellona=> CREATE type transaction_status AS ENUM ('pending', 'paid');
CREATE TYPE
express_wiellona=> CREATE TABLE IF NOT EXISTS transactions(
express_wiellona(> id UUID PRIMARY KEY DEFAULT uuid_generate_v4(),
express_wiellona(> user_id UUID NOT NULL,
express_wiellona(> item_id UUID NOT NULL,
express_wiellona(> quantity INT NOT NULL,
express_wiellona(> total INT NOT NULL,
express_wiellona(> status transaction_status DEFAULT 'pending',
express_wiellona(> created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
express_wiellona(> FOREIGN KEY (user_id) REFERENCES users(id) ON DELETE CASCADE,
express_wiellona(> FOREIGN KEY (item_id) REFERENCES items(id) ON DELETE CASCADE
express_wiellona(> );
CREATE TABLE
```

6. Screenshot response

Method	Endpoint	Success	Failed
POST	/user/register		<pre>{ "success": false, "message": "Email already used", "payload": null }</pre>
PUT	/user	"fat": "Positives etcs4153-a668-697766531666", "mass": "Montal", "entil": "menhalizate all.com", "passents": "Montalizate cookies Headers (M) Yest Results (G) 2000 CK - 406 ms - 5: M V D Preview (G) Visualize V { "sections": 1514, "sections": 1514,	1 { 2 "id": "08bf7910-8f25-4153-a6b8-69f76663168d", 3 "name": "Wonka", 4 "email" : "wonka1238mail.com", 5 "password": "W8nk8123" 6 } cdy Cockies Headers (9) Test Results ① () JSON v Deview (**) Visualize v 1 { 2 "success": false, 3 "message": "User not found", 4 "payload": null 5 }



POST	/user/login	1	<pre>"success": false, "message": "Email atau password salah", "payload": null }</pre>
POST	/user/topUp		
POST	/transaction/create	Titem.id": "3b2fe03d-ab08-4f65-b4b3-78905793e9af", "user_id": "87bf7910-8f25-4153-ab08-69f76653168d" "user_id": "87bf7910-8f25-4153-ab08-69f76653168d" "user_id": "87bf7910-8f25-4153-ab08-69f76653168d" JSON	
POST	/transaction/pay		
DELETE	/transaction/:id		