BE NodeJS

Tugas: Framework ExpressJS

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Soal:

1. Instalasi dan Setup Project

- Download source untuk latihan dari tautan ini https://drive.google.com/file/d/1Eh7-zSCrgbKn8w aYow7FXmK WySN904/view?usp=sharin q
- Buka source di Visual Studio Code, kemudian install semua package yang diperlukan melalui terminal dengan perintah npm install

2. Membuat Server Sederhana

Buat direktori public dan tambahkan file HTML sederhana, kemudian serve file tersebut menggunakan middleware express.static.

Jawab:

```
    leonardhorsitanggang@Leonardhos-MacBook-Pro sanbercode-nodejs-xpress % cd tugas-framework-express
    leonardhorsitanggang@Leonardhos-MacBook-Pro tugas-framework-express % npm install added 124 packages, and audited 125 packages in 1s
    16 packages are looking for funding run 'npm fund' for details
    vulnerabilities (1 low, 2 moderate, 3 high)
    To address all issues, run: npm audit fix
    Run 'npm audit' for details.
```

Gambar 1.1 Instalasi package untuk source code

2. Source code dan Output

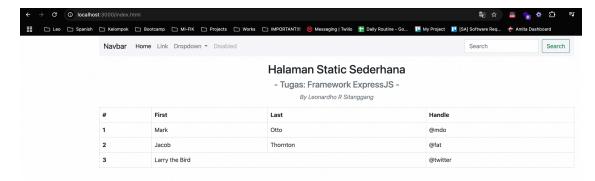
```
TS index.ts U X
tugas-framework-express > src > ™ index.ts > ♥ init
       import express, { Request, Response } from "express";
       const PORT = 3000;
       function init() {
         const app = express();
         app.use(express.static('public'))
         app.get("/", (req: Request, res: Response) => {
           res.status(200).json({
             message: "OK",
             data: null,
         // Buat route untuk /hello yang mengembalikan
         app.get("/hello", (req: Request, res: Response) => {
           res.status(200).json({
            message: "Success fetch message",
             data: "Hello World!",
         app.get("/user", (req: Request, res: Response) => {
           res.status(200).json({
             message: "Success fetch user",
             data: {
               id: 1,
               name: "Budi",
               username: "budidu",
               email: "budidu@mail.com"
         app.listen(PORT, () => {
           console.log(`Server is running on http://localhost:${PORT}`);
       init();
```

Gambar 2.1 Inisiasi static public route, API GET /hello, dan API GET /user

Gambar 2.2 Code tampilan halaman static

```
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                                                                           G
                                                                                  ① localhost:3000/user
                 G
                         (i) localhost:3000/hello
                                                                       Leo Spanish C Kelompok
                                                             Pretty-print 🗹
   :::
            ☐ Leo
                        □ Spanish □ Kelompok
                                                               "message": "Success fetch user",
Pretty-print 🗹
                                                              "message": "Success Tetch use
"data": {
    "id": 1,
    "name": "Budi",
    "username": "budidu",
    "email": "budidu@mail.com"
   "message": "Success fetch message",
   "data": "Hello World!"
                                                               }
```

Gambar 2.2 & Gambar 2.3 API response body GET /hello dan GET /user



Gambar 2.4 Route public /index.html

Repository:

- Github https://github.com/FlazeFy/sanbercode-nodejs-xpress/tree/main/tugas-framework-express

Refrensi:

- Materi Pekan 2.1 Framework Express JS

 https://sanbercode.com/bootcamp/class/684/materi/2-1-framework-expressjs/dc0618b7-fd52-4eec-a57

 8-5ed88c4d5b3c
- Materi Pekan 2.2 Routing Rest API

 https://sanbercode.com/bootcamp/class/684/materi/routing-rest-api/de70a7be-9056-40e0-bed0-c280c6bc1
 de0
- Materi Pekan 2.3 Middleware ExpressJS

 https://sanbercode.com/bootcamp/class/684/materi/2-3-middleware-expressjs/c33672de-a33d-4916-b07c-9221b9e836b5