BE NodeJS

Tugas: Middleware Express JS

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Soal:

- 1. Buatlah akun di Cloudinary
- 2. Pastikan bisa mendapatkan CLOUD_NAME, API_SECRET dan API_KEY, untuk panduan bisa akses link berikut ini
- 3. ubah source code latihan-middleware-multer agar bisa sesuai dengan kebutuhan berikut ini:
- a. upload file satuan (single)
- b. upload file lebih dari satu (multiple)
- c. gunakan Postman untuk menguji API /single dan /multiple, ikut panduan mengupload file di postman

Jawab:

1. Source Code

Gambar 1.1 Middleware Multer untuk upload

```
const PORT = 3000;
function init() {
  const app = express();

app.get("/", (req: Request, res: Response) => {
    res.status(200).json({
        message: "OK",
            data: null,
        });
    });
    app.use(router)

app.listen(PORT, () => {
        console.log(`Server is running on <a href="http://localhost:${PORT}`);
    });
}
init();</pre>
```

Gambar 1.2 Inisiasi Express

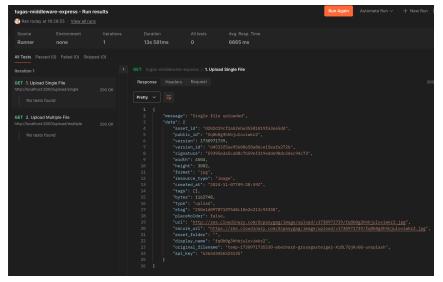
Gambar 1.3 Fungsi upload ke cloudinary

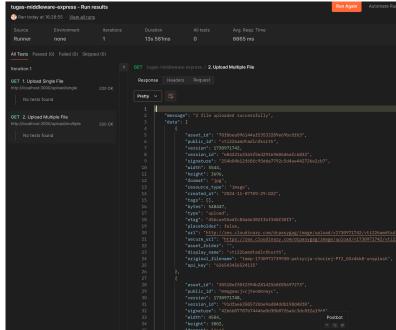
```
const processUploadFile = async (file: Express.Multer.File): Promise<any> => {
   const tempFilePath = path.join(__dirname, `temp-${Date.now()}-${file.originalname}`)
   await fs.promises.writeFile(tempFilePath, file.buffer)
   const uploadedFile = await handleUpload(tempFilePath)
   await fs.promises.unlink(tempFilePath)
    return uploadedFile
router.get("/upload/single", single, async (req, res) => {
        if (!req.file) {
           return res.status(400).json({ message: "No file uploaded" })
        // File validation
        if (req.file.size > 1024 * 1024 * 5){
            return res.status(409).json({ message: "File too large. Maximum size 5 mb" })
       const uploaded = await processUploadFile(req.file)
       res.status(200).json({ message: "Single file uploaded", data: uploaded })
    } catch (error) {
        res.status(500).json({ message: "Upload failed", error })
```

Gambar 1.4 Fungsi skema temporary file sebelum upload ke cloud dan API Get Single Upload

```
router.get("/upload/multiple", multiple, async (req, res) => {
   let total_success = 0
       const files = req.files as Express.Multer.File[]
       if (!files || files.length === 0) {
           return res.status(400).json({ message: "No files uploaded" })
       if (files.length > 5) {
           return res.status(409).json({ message: "Too many files. Maximum 5 file" })
       let uploaded = []
       for (let i = 0; i < files.length; i++) {
           if (file.size > 1024 * 1024 * 5) {
               return res.status(409).json({ message: "File too large. Maximum size 5 mb" })
           uploaded.push(await processUploadFile(file))
           total_success++
       res.status(200).json({ message: `${total_success} file uploaded successfully`, data: uploaded })
   } catch (error) {
       res.status(500).json({ message: "Upload failed", error })
```

Gambar 1.5 API Get Multiple Upload





Gambar 1.6 Runner dari API Get Single & Get Multiple Upload

Repository:

- Github https://github.com/FlazeFy/sanbercode-nodejs-xpress/tree/main/tugas-middleware-express
- Postman Documentation https://documenter.getpostman.com/view/18882129/2sAY51911r

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 Express

 $\underline{https://sanbercode.com/bootcamp/class/684/materi/2-3-middleware-express js/c33672 de-a33d-4916-b07c-9221b9e836b5}$

- Cloudinary https://cloudinary.com/

- Postman File Upload https://apidog.com/blog/postman-upload-file-detailed-guide/

- Cara Upload Photo via Cloudinary dengan Express
https://bilkisismail07.medium.com/cara-upload-photo-image-dengan-cloudinary-pada-node-js-dan-express-part-1-c967aa14074c