LAPORAN PRAKTIKUM GUIDED&UNGUIDED KONTRUKSI PERANGKAT LUNAK MODUL 8



Disusun Oleh:

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PROGRAM STUDI S1 REKAYASA PERANGKAT LUNAK FAKULTAS INFORMATIKA TELKOM UNIVERSITY PURWOKERTO

A. Sourcode:

1. banktransferapp.js

```
• • •
const readline = require('readline');
const BankTransferConfig = require('../config/BankTransferConfig');
class BankTransferApp {
    this.config = new BankTransferConfig().config;
this.rl = readline.createInterface({
       output: process.stdout
  askQuestion(query) {
    return new Promise(resolve => this.rl.question(query, resolve));
  async run() {
    const promptAmount = lang === "en" ?
   "Please insert the amount of money to transfer: " :
       "Masukkan jumlah uang yang akan di-transfer: ";
     const amountStr = await this.askQuestion(promptAmount);
     const total = amount + fee;
    if (lang === "en") {
  console.log(`Transfer fee = ${fee}`);
  console.log(`Total amount = ${total}`);
     } else {
      console.log(`Biaya transfer = ${fee}`);
console.log(`Total biaya = ${total}`);
    await this.askQuestion(lang === "en" ? "Choose a method (press Enter after): " : "Pilih metode
     const confirmationInput = await this.askQuestion(confirmationPrompt);
      (lang === "en" && confirmationInput.trim().toLowerCase() === this.config.confirmation.en) || (lang === "id" && confirmationInput.trim().toLowerCase() === this.config.confirmation.id)
       console.log(lang === "en" ? "The transfer is completed" : "Proses transfer berhasil");
     } else {
module.exports = BankTransferApp;
```

2. banktransferconfig.js

3. bank_transfer_config.json

```
"lang": "en",
    "transfer": {
        "threshold": 25000000,
        "low_fee": 5500,
        "high_fee": 15000
        },
        "methods": ["RTO (real-time)", "SKN", "RTGS", "BI FAST"],
        "confirmation": {
        "en": "yes",
        "id": "ya"
        }
    }
}
```

4. Index.js

```
const BankTransferApp = require('./app/BankTransferApp');
const app = new BankTransferApp();
app.run();
```

B. Output

1. Transfer Berhasil

```
PS C:\praktikum KPL\KPL_ADITYA-PRABU-MUKTI_2211104037_SE0602\08_RuntimeCofiguration> node index.js
Please insert the amount of money to transfer: 93500
Transfer fee = 6500
Total amount = 100000
Select transfer method:
1. RTO (real-time)
2. SKN
3. RTGS
4. BI FAST
Choose a method (press Enter after): 1
Please type "yes" to confirm the transaction: yes
The transfer is completed
PS C:\praktikum KPL\KPL_ADITYA-PRABU-MUKTI_2211104037_SE0602\08_RuntimeCofiguration>
```

2. Transfer gagal

```
PS C:\praktikum KPL\KPL_ADITYA-PRABU-MUKTI_2211104037_SE0602\08_RuntimeCofiguration> node index.js
Please insert the amount of money to transfer: 503500
Transfer fee = 6500
Total amount = 510000
Select transfer method:

1. RTO (real-time)

2. SKN

3. RTGS

4. BI FAST
Choose a method (press Enter after): 1
Please type "yes" to confirm the transaction: no
Transfer is cancelled
PS C:\praktikum KPL\KPL_ADITYA-PRABU-MUKTI_2211104037_SE0602\08_RuntimeCofiguration>
```

3. Deskripsi Program

Aplikasi ini adalah sistem simulasi transfer bank berbasis Node.js yang dirancang untuk memproses transaksi perbankan secara virtual dengan pengaturan runtime yang fleksibel. Pengguna dapat menentukan jumlah uang yang ingin ditransfer, memilih metode transfer yang tersedia, dan mengonfirmasi transaksi untuk menyelesaikannya. Seluruh konfigurasi aplikasi — seperti bahasa, biaya transfer, dan pilihan metode transfer — dikelola melalui file JSON eksternal, sehingga memungkinkan penyesuaian tanpa harus mengubah kode inti dari aplikasi.