

Kelvin Ferdinan_2311104009

https://github.com/mispipin/KPL_Kelvin-Ferdinan_2311104009_s1se0701

main.js

```
08_Runtime_Configuration > JM > mainjs > main
const BankTransferConfig = require('./BankTransferConfig');
const readline = require('readline');

const config = new BankTransferConfig();

const rl = readline.createInterface({
  input: process.stdin,
  output: process.stdout
});

function ask(question) {
  return new Promise(resolve => rl.question(question, answer => resolve(answer)));
}

async function main() {
  const lang = config.config.lang;
  const transfer = config.config.transfer;
  const methods = config.config.methods;
  const confirmation = config.config.confirmation;

  const promptTransfer = lang === "id" ? "Masukkan jumlah uang yang akan di-transfer: " : "Please insert the amount of money to transfer: ";
  const amountInput = await ask(promptTransfer);
  const amount = parseFloat(amountInput);

  let fee = amount <= transfer.threshold ? transfer.low_fee : transfer.high_fee;
  let total = amount + fee;

  if (lang === "id") {
    console.log("Biaya transfer = ${fee}");
    console.log("Total biaya = ${total}");
  } else {
    console.log("Transfer fee = ${fee}");
    console.log("Total amount = ${total}");
  }

  const promptMethod = lang === "id" ? "Pilih metode transfer: " : "Select transfer method: ";
  console.log(promptMethod);
  methods.forEach((method, index) => {
    console.log(`${index + 1}. ${method}`);
  });

  await ask("> (pilih nomor metode) ");

  const confirmPrompt = lang === "id" ? "Ketik "${confirmation.id}" untuk mengkonfirmasi transaksi: " : "Please type "${confirmation.en}" to confirm the transaction: ";
  const confirmInput = await ask(confirmPrompt);

  const confirmWord = lang === "id" ? confirmation.id : confirmation.en;

  if (confirmInput.toLowerCase() === confirmWord.toLowerCase()) {
    console.log(lang === "id" ? "Proses transfer berhasil" : "The transfer is completed");
  } else {
    console.log(lang === "id" ? "Transfer dibatalkan" : "Transfer is cancelled");
  }

  rl.close();
}

main();
```

BankTransferConfig.js

```
08_Runtime_Configuration > JM > BankTransferConfig.js > ...
const fs = require('fs');

class BankTransferConfig {
  constructor() {
    this.configFile = 'bank_transfer_config.json';
    this.defaultConfig = {
      lang: "en",
      transfer: {
        threshold: 25000000,
        low_fee: 6500,
        high_fee: 15000
      },
      methods: ["RTO (real-time)", "SKN", "RTGS", "BI FAST"],
      confirmation: {
        en: "yes",
        id: "ya"
      }
    };
    this.loadConfig();
  }

  loadConfig() {
    if (fs.existsSync(this.configFile)) {
      const data = fs.readFileSync(this.configFile);
      this.config = JSON.parse(data);
    } else {
      this.config = this.defaultConfig;
      this.saveConfig();
    }
  }

  saveConfig() {
    fs.writeFileSync(this.configFile, JSON.stringify(this.config, null, 4));
  }
}

module.exports = BankTransferConfig;
```

Bank_Transfer_Config.json

```
08_Runtime_Configuration > JM > {} Bank_Transfer_config.json > ...
1  {
2      "lang": "id",
3      "transfer": {
4          "threshold": 25000000,
5          "low_fee": 6500,
6          "high_fee": 15000
7      },
8      "methods": ["RTO (real-time)", "SKN", "RTGS", "BI FAST"],
9      "confirmation": {
10         "en": "yes",
11         "id": "ya"
12     }
13 }
14
```

Output:

```
PS C:\Users\LEGION\OneDrive - Telkom University\sem4\kpl\KPL_Kelvin Ferdin
● 1104009_SE0701\08_Runtime_Configuration\JM> node main.js
Masukkan jumlah uang yang akan di-transfer: 50000
Biaya transfer = 6500
Total biaya = 56500
Pilih metode transfer:
1. RTO (real-time)
2. SKN
3. RTGS
4. BI FAST
> (pilih nomor metode) 1
Ketik "ya" untuk mengkonfirmasi transaksi: ya
Proses transfer berhasil
```