Jurnal Modul 8 Konstruksi Perangkat Lunak PRODI REKAYASA PERANGKAT LUNAK



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Jurnal Modul 8

1. Initialize project dan push

```
DIVERLEMENSERSER ANDRE PRAKTIKEN/Loperan github git(master) is (8.156)
git add 788_Rentime_Configuration_dam_internalization/
git commit == "initiate module"
[master 489-880] initiate module"
3 files changed_37 insertiments
3 files changed_37 insertiments
create mode 180644 85_Runtime_Configuration_dam_internalization/jurnal/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_2311184657/module_231184657/module_231
```

2. BankTransferConfig.cs

public static BankTransferConfig LoadConfig(): Membaca file bank_transfer_config.json jika ada. Jika tidak ada, membuat file dengan konfigurasi default

public void SaveConfig(): Menyimpan objek konfigurasi ke file JSON dengan format rapi (Indented)

3. main di Program.cs

```
static void Main()
                      var config = BankTransferConfig.LoadConfig();
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 8 29 30 31 33 34 35 36 37 38 39 40 41 42 9 9
                     string lang = config.lang;
                     Console.WriteLine(lang == "en" ?
                          "Please insert the amount of money to transfer:":
"Masukkan jumlah uang yang akan di-transfer:");
                     int amount = int.Parse(Console.ReadLine()!);
int fee = (amount <= config.transfer.threshold) ?</pre>
                          config.transfer.low_fee : config.transfer.high_fee;
                     int total = amount + fee;
                      if (lang == "en")
                          Console.WriteLine($"Transfer fee = {fee}");
Console.WriteLine($"Total amount = {total}");
                     else
                          Console.WriteLine($"Biaya transfer = {fee}");
Console.WriteLine($"Total biaya = {total}");
                     // tampilkan metode transfer
Console.WriteLine(lang == "en" ? "Select transfer method:" : "Pilih metode transfer:");
                      for (int i = 0; i < config.methods.Count; i++)
                           Console.WriteLine($"{i + 1}. {config.methods[i]}");
                     Console.ReadLine(); // pilih metode (tidak digunakan lebih lanjut)
                     // konfirmasi
                      string confirmationWord = lang == "en" ? config.confirmation.en : config.confirmation.id;
                      Console.WriteLine(lang == "en
                           $"Please type \"{confirmationWord}\" to confirm the transaction:"
$"Ketik \"{confirmationWord}\" untuk mengkonfirmasi transaksi:");
                     string inputConfirm = Console.ReadLine() |;
                      if (inputConfirm == confirmationWord)
                           Console.WriteLine(lang == "en" ? "The transfer is completed" : "Proses transfer berhasil");
                     else
                           Console.WriteLine(lang == "en" ? "Transfer is cancelled" : "Transfer dibatalkan");
```

Melakukan simulasi transfer uang berdasarkan: Jumlah uang, Bahasa (Indonesia/Inggris), Biaya transfer (berdasarkan ambang batas), dan Konfirmasi akhir dari pengguna

Muat Konfigurasi : var config = BankTransferConfig.LoadConfig(); untuk mengambil konfigurasi dari file bank_transfer_config.json.

string lang = config.lang; : Menyesuaikan teks berdasarkan en (Inggris) atau id (Indonesia).

Input Jumlah Uang : int amount = int.Parse(Console.ReadLine()!);

Hitung Biaya Transfer:

- int fee = (amount <= config.transfer.threshold) ? config.transfer.low_fee : config.transfer.high_fee;
- 2. int total = amount + fee;

Pilih Metode Transfer:

```
for (int i=0; i < config.methods.Count; <math>i++) { Console.WriteLine($"\{i+1\}. {config.methods[i]}"); }
```

string confirmationWord = (lang == "en") ? config.confirmation.en : config.confirmation.id; : Minta pengguna mengetik "yes" / "ya" sebagai konfirmasi.

```
Microsoft Visual Studio Debug Console
Masukkan jumlah uang yang akan di-transfer:
4000
Biaya transfer = 6500
Total biaya = 10500
Pilih metode transfer:
 L. RTO (real-time)
 . RTGS
 4. BI FAST
Ketik "ya" untuk mengkonfirmasi transaksi:
Proses transfer berhasil
D:\KULIAH\SEMESTER 4\KPL Praktikum\laporan github\08_Runtime_Configuration_dan_Internalization\jurnal\modul8_2311104057\
modul8_2311104057\bin\Debug\net8.0\modul8_2311104057.exe (process 7676) exited with code 0 (0x0).
 o automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the conso
le when debugging stops.
 Press any key to close this window . . ._
 Microsoft Visual Studio Debug Console
 Please insert the amount of money to transfer:
 Transfer fee = 6500
Total amount = 6600
 Select transfer method:

    RTO (real-time)

 . SKN
 RTGS
 . BI FAST
Please type "yes" to confirm the transaction:
 The transfer is completed
D:\KULIAH\SEMESTER 4\KPL Praktikum\laporan github\08_Runtime_Configuration_dan_Internalization\jurnal\modul8_2311104057\
modul8_2311104057\bin\Debug\net8.0\modul8_2311104057.exe (process 9432) exited with code 0 (0x0).
 To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the conso
le when debugging stops.
Press any key to close this window . . .
```

4. Push

```
D:\KULIAH\SEMESTER 4\KPL Praktikum\laporan github git:(master)±8 (0.152s)
git commit -m "aplikasi bank transfer dengan runtime configuration"

[master aba3383] aplikasi bank transfer dengan runtime configuration
4 files changed, 133 insertions(+), 2 deletions(-)
create mode 100644 08_Runtime_Configuration_dan_Internalization/jurnal/modul8_2311104057/modul8_2311104057/BankTransferConfig.cs
create mode 100644 08_Runtime_Configuration_dan_Internalization/jurnal/modul8_2311104057/modul8_2311104057/bank_transfer_config.json

D:\KULIAH\SEMESTER 4\KPL Praktikum\laporan github git:(muster)±4 (2.337s)
git push
Enumerating objects: 16, done.
Counting objects: 100% (16/16), done.
Delta compression using up to 8 threads
Compressing objects: 100% (9/9), done.
Writing objects: 100% (19/10), 2.20 KIB | 1.10 MiB/s, done.
Total 10 (delta 3), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (3/3), completed with 3 local objects.
To https://github.com/reyneratira/KPL_REVNER-ATIRA-PRASETYO_2311104057_51SE-07-02.git
44ba30b..aba3383 master -> master
```