TJ MODUL 8 RUNTIME CONFIGURATION DAN INTERNATIONALIZATION



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PROGRAM STUDI S1 REKAYASA PERANGKAT LUNAK TELKOM UNIVERSITY PURWOKERTO 2025

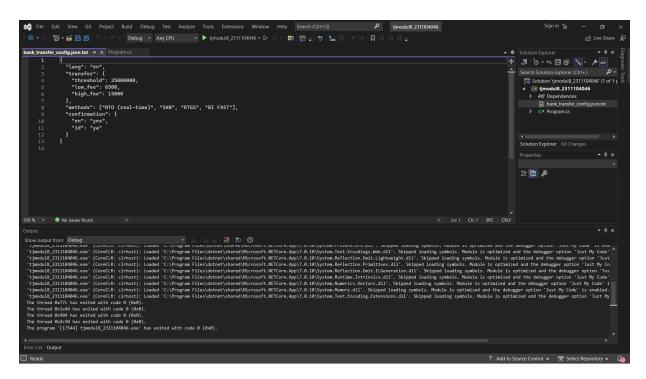
1. Melakukan first commit

```
D:\College\Semester 4\Konstruksi Perangkat Luna\KPL\08_Runtime_Configuration_dan_Internationalization\tjmodul8_231110404
6>git add .

D:\College\Semester 4\Konstruksi Perangkat Luna\KPL\08_Runtime_Configuration_dan_Internationalization\tjmodul8_231110404
6>git commit = "commit pertama"
[main 2497e16] commit pertama
3 files changed, 37 insertions(+)
create mode 1006444 08_Runtime_Configuration_dan_Internationalization/tjmodul8_2311104046/tjmodul8_2311104046.sln
create mode 1006444 08_Runtime_Configuration_dan_Internationalization/tjmodul8_2311104046/tjmodul8_2311104046/trogram.cs
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```

2. Implementasi runtime configuration

Aplikasi ini mensimulasikan transfer bank dengan membaca konfigurasi dari file JSON. Pengguna memasukkan jumlah uang, lalu program menghitung biaya transfer berdasarkan batas nominal yang diatur. Metode transfer ditampilkan sesuai konfigurasi, dan transaksi dikonfirmasi dengan kata kunci. Jika sesuai, transfer berhasil; jika tidak, dibatalkan.



```
public int threshold { get; set; }
        public int low_fee { get; set; }
        public int high_fee { get; set; }
    }
    public class Confirmation
        public string en { get; set; }
        public string id { get; set; }
    }
    public static BankTransferConfig LoadFromFile(string filePath)
        if (!File.Exists(filePath))
            var defaultConfig = new BankTransferConfig
                lang = "en",
                    transfer = new Transfer { threshold = 25000000, low fee = 6500,
high fee = 15000 \},
                  methods = new List<string> { "RTO (real-time)", "SKN", "RTGS", "BI
FAST" },
                confirmation = new Confirmation { en = "yes", id = "ya" }
             File.WriteAllText(filePath, JsonSerializer.Serialize(defaultConfig, new
JsonSerializerOptions { WriteIndented = true }));
            return defaultConfig;
        else
            string json = File.ReadAllText(filePath);
            return JsonSerializer.Deserialize<BankTransferConfiq>(json);
    }
class Program
    static void Main()
        string configPath = "bank transfer config.json";
        var config = BankTransferConfig.LoadFromFile(configPath);
        Console.WriteLine(config.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;
        Console.WriteLine(config.lang == "en"
            ? $"Transfer fee = {fee}\nTotal amount = {total}"
            : $"Biaya transfer = {fee}\nTotal biaya = {total}");
        Console.WriteLine(config.lang == "en"
            ? "Select transfer method:"
            : "Pilih metode transfer:");
        for (int i = 0; i < config.methods.Count; i++)</pre>
            Console.WriteLine($"{i + 1}. {config.methods[i]}");
        Console.ReadLine(); // Simulasi input metode transfer
        string confirmKey = config.lang == "en"
            ? config.confirmation.en
            : config.confirmation.id;
```

```
Console.WriteLine(config.lang == "en"
        ? $"Please type \"{confirmKey}\" to confirm the transaction:"
        : $"Ketik \"{confirmKey}\" untuk mengkonfirmasi transaksi:");
   string inputConfirm = Console.ReadLine();
   if (inputConfirm.ToLower() == confirmKey.ToLower())
        Console.WriteLine(config.lang == "en"
           ? "The transfer is completed"
            : "Proses transfer berhasil");
    }
   else
    {
        Console.WriteLine(config.lang == "en"
           ? "Transfer is cancelled"
            : "Transfer dibatalkan");
   }
}
```

Output yang dihasilkan:

```
Please insert the amount of money to transfer:
1500000
Transfer fee = 6500
Total amount = 1506500
Select transfer method:
1. RTO (real-time)
2. SKN
3. RTGS
4. BI FAST
2
Please type "yes" to confirm the transaction:
yes
The transfer is completed

D:\College\Semester 4\Konstruksi Perangkat Luna\KPL\08_Runtime_Configuration_dan_Internationalization\tjmodul8_2311104046
6\tjmodul8_2311104046\bin\Debug\netT.0\tjmodul8_2311104046.exe (process 17544) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```

3. Melakukan commit

Melakukan git add, commit dan push ke github