TUGAS JURNAL KONSTRUKSI PERANGKAT LUNAK

MODUL VIII

Bank Transfer



Disusun Oleh:

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SE06-3

PROGRAM STUDI S1 SOFTWARE ENGINEERING FAKULTAS INFORMATIKA TELKOM UNIVERSITY PURWOKERTO 2024

TUGAS JURNAL

A. Program.cs

```
using System;
class Program
    static void Main()
       var config = BankTransferConfig.
LoadConfig("bank_transfer_config.json");
       string lang = config.lang;
       Console.WriteLine(lang == "id" ?
"Masukkan jumlah uang yang akan di-transfer:"
"Please insert the amount of money to transfe
       string? inputAmount = Console.
ReadLine();
      if (!int.TryParse(inputAmount, out
int amount))
           Console.WriteLine(
"Invalid input.");
           return;
       if (amount < 0)
           Console.WriteLine(
"Invalid input.");
           return;
       if (amount == 0)
           Console.WriteLine(
"Invalid input.");
           return;
       int fee = amount <= config.transfer.</pre>
threshold ? config.transfer.low_fee : config.
transfer.high_fee;
       int total = amount + fee;
       if (lang == "id")
           Console.WriteLine($"
Total biaya = {total}");
           Console.WriteLine($"
Transfer fee = {fee}");
          Console.WriteLine($"
Total amount = {total}");
```

```
Console.WriteLine(lang == "id" ?
"Pilih metode transfer:" :
"Select transfer method:");
        for (int i = 0; i < config.methods.</pre>
Count; i++)
            Console.WriteLine($"{i + 1}. {
config.methods[i]}");
        Console.ReadLine();
// Pilihan user tidak digunakan dalam logika
        string confirmText = lang == "id" ?
config.confirmation.id : config.confirmation.
en;
        Console.WriteLine(lang == "id" ? $"
Ketik \"{confirmText}\"
untuk mengkonfirmasi transaksi:" : $"
Please type \"{confirmText}\"
to confirm the transaction:");
        string? input = Console.ReadLine();
        if (input == null)
            Console.WriteLine(lang == "id" ?
"Input tidak valid." : "Invalid input.");
            return;
        }
        if (input.ToLower() == confirmText.
ToLower())
            Console.WriteLine(lang == "id" ?
"Proses transfer berhasil" :
"The transfer is completed");
        }
        else
            Console.WriteLine(lang == "id" ?
"Transfer dibatalkan" :
"Transfer is cancelled");
        }
    }
```

B. BankTransferConfig

```
using System;
using System.IO;
using System.Text.Json;
using System.Collections.Generic;
public class BankTransferConfig
   public string lang { get; set; } = "en";
   public Transfer transfer { get; set; } =
new Transfer();
   public List<string> methods { get; set
; } = new List<string>();
   public Confirmation confirmation { get;
set; } = new Confirmation();
   public static BankTransferConfig
LoadConfig(string path)
       if (File.Exists(path))
           string json = File.ReadAllText(
path);
           BankTransferConfig? config =
JsonSerializer.Deserialize<BankTransferConfig
>(json);
           if (config != null) return config
// Nilai default jika file tidak ada atau gag
al deserialize
       return new BankTransferConfig
```

```
{
    lang = "en",
        transfer = new Transfer
    {
        threshold = 250000000,
        low_fee = 6500,
        high_fee = 15000
    },
    methods = new List<string> {
    "RTO (real-time)", "SKN", "RTGS", "BI FAST"
    },
        confirmation = new Confirmation
        {
            en = "yes",
            id = "ya"
        }
    };
    }
}

public class Transfer
{
    public int threshold { get; set; }
    public int low_fee { get; set; }
    public class Confirmation
{
    public string en { get; set; } = "yes";
    public string id { get; set; } = "yes";
    public string id { get; set; } = "yes";
}
```

C. bank transfer config

```
"lang": "en",
    "transfer": {
        "threshold": 25000000,
        "low_fee": 6500,
        "high_fee": 15000
    },
    "methods": [
        "RTO (real-time)",
        "SKN",
        "RTGS",
        "BI FAST"
    ],
    "confirmation": {
        "en": "yes",
        "id": "ya"
    }
}
```

D. Output

```
PS D:\KULIAH\SEM6\KPL\TugasPraktikum\Pertemuan8\Jurnal\Jurnal> <mark>dotnet</mark> run
Using launch settings from D:\KULIAH\SEM6\KPL\TugasPraktikum\Pertemuan8\Jurnal\Jurnal\Properties\launchSettings.json...
Building...
Please insert the amount of money to transfer:
-1000
PS D:\KULIAH\SEM6\KPL\TugasPraktikum\Pertemuan8\Jurnal\Jurnal> dotnet run
Using launch settings from D:\KULIAH\SEM6\KPL\TugasPraktikum\Pertemuan8\Jurnal\Jurnal\Properties\launchSettings.json...
Building...
Please insert the amount of money to transfer:
1000000
Transfer fee = 6500
Total amount = 1006500
Select transfer method:

    RTO (real-time)

2. SKN
3. RTGS
4. BI FAST
Please type "yes" to confirm the transaction:
yes
The transfer is completed
PS D:\KULIAH\SEM6\KPL\TugasPraktikum\Pertemuan8\Jurnal\Jurnal>
```