JURNAL KONSTRUKSI PERANGKAT LUNAK MODUL 14



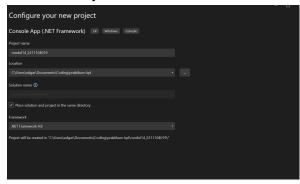
Oleh:

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PROGRAM STUDI S1 SOFTWARE ENGINEERING FAKULTAS INFORMATIKA TELKOM UNIVERSITY PURWOKERTO

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1. Membuat Project Baru



disini saya menggunakan modul 8

2. Refactoring yang Dilakukan

- Mengikuti standar penamaan PascalCase untuk kelas, metode, dan properti.
- Menambahkan komentar di bagian penting kode.
- Menambahkan validasi input menggunakan int.TryParse() agar program tidak crash jika input salah.
- Menjaga konsistensi indentasi dan whitespace.

3. Kode sebelum dan sesudah

BankTransferConfig.cs Before :

```
2 references
    public class Transfer
{
        2 references
        public int Threshold { get; set; }
        2 references
        public int LowFee { get; set; }
        2 references
        public int HighFee { get; set; }
}

2 references
    public class Confirmation
{
        2 references
        public string En { get; set; }
        2 references
        public string Id { get; set; }
```

after

Program.cs

before

```
// Step 4: Transfer method
Console.WriteLine(Lang = "om" ? "Select transfer method:" : "Pilih metode transfer:");
for (int i = 0; i < config.Methods.(ownt; i++)
{
    Console.WriteLine(1; (i + 1). {config.Methods(i)}*);
}
int methodChoice = int.Parse(Console.ReadLine());

// Step 5: Confirmation
string confirmitest = Lang = "om" ? config.Confirmation.En : config.Confirmation.ld;
Console.WriteLine(Lang = "om"
? $Picase type \(\forall \) (confirmitest) \(\forall \) to confirm the transaction:"
: $\forall \) \(\forall \) (confirmitest) \(\forall \) onto the mengloonfirmact transaction:"
: $\forall \) \(\forall \) (confirmitest) \(\forall \) (confirmitest) \(\forall \) (confirmitest) \(\forall \) \(\forall \) (confirmitest) \(\forall \) (confirmitest inclang = "om"
\(\forall \) * Transfer is cancolled"
\(\forall \) * Transfer dibatalkan";
\(\forall \)
```

```
▼ % Program
modul14_2211104019
                 BankTransferConfig config = BankTransferConfig.LoadConfig();
string lang = config.Lang;
                if (!int.TryParse(Console.ReadLine(), out int amount))
                      Console.WriteLine(lang == "en" ? "Invalid input!" : "Input tidak valid!");
return;
                 // Step 2: Calculate transfer fee
int fee = amount <= config.Transfer.Threshold</pre>
                 ? config.Transfer.LowFee
: config.Transfer.HighFee;
int total = amount + fee;
                // Step 3: Display fee and total
if (lang == "en")
                      Console.WriteLine($"Transfer fee = {fee}");
Console.WriteLine($"Total amount = {total}");
                     Console.WriteLine($"Biaya transfer = {fee}");
Console.WriteLine($"Total biaya = {total}");
                // Step 4: Transfer method
Console.WriteLine(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]}");
                 // Step 5: Input transfer method
if (!int.TryParse(Console.ReadLine(), out int methodChoice) || methodChoice < 1 || methodChoice > config.Methods.Count)
                      Console.WriteLine(lang == "en" ? "Invalid choice!" : "Pilihan tidak valid!");
                // Step 6: Confirmation
string confirmText = lang == "en" ? config.Confirmation.En : config.Confirmation.Id;
Console.WriteLine(lang == "en"
    ? $"Please type \"{confirmText}\" to confirm the transaction:"
    : $"Ketik \"{confirmText}\" untuk mengkonfirmasi transaksi:");
                 string userInput = Console.ReadLine();
                 if (userInput == confirmText)
                      Console.WriteLine(lang == "en"
? "The transfer is completed"
: "Proses transfer berhasil");
                 clse {
Console.WriteLine(lang == "en"
                            ? "Transfer is cancelled"
: "Transfer dibatalkan");
```

(diperbaiki dan ditambahkan validasi + komentar)

Perbaikan kode ini digunakan untuk memastikan bahwa input yang dimasukkan pengguna berupa angka. Jika tidak valid, program akan menampilkan pesan kesalahan dan menghentikan eksekusi.