

JURNAL 8 KPL

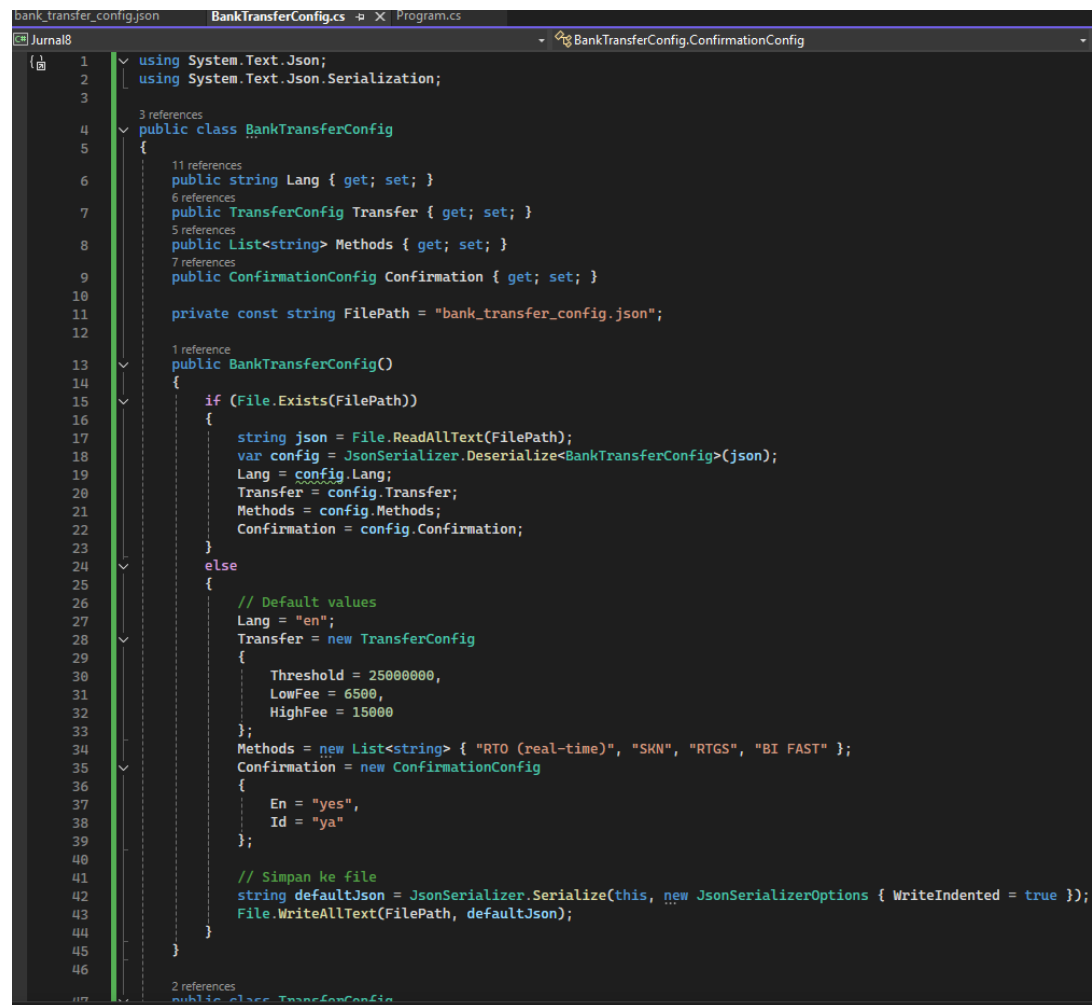
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Link Repo:

https://github.com/fahmihasanasagaf/KPL_2311104074_SE0702/tree/main/08_Runtime_Configuration_and_Internationalization

Kelas BankTransferConfig



```
1 using System.Text.Json;
2 using System.Text.Json.Serialization;
3
4 3 references
5 public class BankTransferConfig
6 {
7     11 references
8     public string Lang { get; set; }
9     6 references
10    public TransferConfig Transfer { get; set; }
11    5 references
12    public List<string> Methods { get; set; }
13    7 references
14    public ConfirmationConfig Confirmation { get; set; }
15
16    private const string FilePath = "bank_transfer_config.json";
17
18    1 reference
19    public BankTransferConfig()
20    {
21        if (File.Exists(FilePath))
22        {
23            string json = File.ReadAllText(FilePath);
24            var config = JsonSerializer.Deserialize<BankTransferConfig>(json);
25            Lang = config.Lang;
26            Transfer = config.Transfer;
27            Methods = config.Methods;
28            Confirmation = config.Confirmation;
29        }
30        else
31        {
32            // Default values
33            Lang = "en";
34            Transfer = new TransferConfig
35            {
36                Threshold = 25000000,
37                LowFee = 6500,
38                HighFee = 15000
39            };
40            Methods = new List<string> { "RTO (real-time)", "SKN", "RTGS", "BI FAST" };
41            Confirmation = new ConfirmationConfig
42            {
43                En = "yes",
44                Id = "ya"
45            };
46
47            // Simpan ke file
48            string defaultJson = JsonSerializer.Serialize(this, new JsonSerializerOptions { WriteIndented = true });
49            File.WriteAllText(FilePath, defaultJson);
50        }
51    }
52
53    2 references
54    public class TransferConfig
```

Program.cs

```
bank_transfer_config.json  BankTransferConfig.cs  Program.cs  X
Jurnal8  Program  Main()

1  using System;
2
3  class Program
4  {
5      static void Main()
6      {
7          var config = new BankTransferConfig();
8
9          // Lang prompt
10         if (config.Lang == "en")
11             Console.WriteLine("Please insert the amount of money to transfer: ");
12         else
13             Console.WriteLine("Masukkan jumlah uang yang akan di-transfer: ");
14
15         int amount = int.Parse(Console.ReadLine());
16
17         int fee = amount <= config.Transfer.Threshold ? config.Transfer.LowFee : config.Transfer.HighFee;
18         int total = amount + fee;
19
20         if (config.Lang == "en")
21         {
22             Console.WriteLine($"Transfer fee = {fee}");
23             Console.WriteLine($"Total amount = {total}");
24         }
25         else
26         {
27             Console.WriteLine($"Biaya transfer = {fee}");
28             Console.WriteLine($"Total biaya = {total}");
29         }
30
31         // Metode transfer
32         if (config.Lang == "en")
33             Console.WriteLine("Select transfer method:");
34         else
35             Console.WriteLine("Pilih metode transfer:");
36
37         for (int i = 0; i < config.Methods.Count; i++)
38         {
39             Console.WriteLine($"{i + 1}. {config.Methods[i]}");
40         }
41
42         Console.WriteLine(">>> ");
43         Console.ReadLine(); // input metode transfer (tidak diproses lanjut)
44
45         // Konfirmasi
46         if (config.Lang == "en")
47             Console.WriteLine($"Please type \"{config.Confirmation.En}\" to confirm the transaction: ");
48         else
49             Console.WriteLine($"Ketik \"{config.Confirmation.Id}\" untuk mengkonfirmasi transaksi: ");
50     }
```

Config bank transfer json

```
bank_transfer_config.json  BankTransferConfig.cs  Program.cs
Schema: <No Schema Selected>
1  {
2    "lang": "en",
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 }
```

Output

```
Please insert the amount of money to transfer: 1000000
Transfer fee = 6500
Total amount = 1006500
Select transfer method:
1. RTO (real-time)
2. SKN
3. RTGS
4. BI FAST
>> 1
Please type "yes" to confirm the transaction: yes
The transfer is completed

C:\Users\fahmi\source\repos\KPL_2311104074_SE0702\08_Runtime_Configuration_dan_Internationalization\Jurnal8\Jurnal8\bin\
Debug\net8.0\Jurnal8.exe (process 28532) exited with code 0 (0x0).
Press any key to close this window . . .|
```