

Haza Zaidan Zidna Fann

2311104056

SISE 0702

Jurnal modul 7

https://github.com/hazazaidan/KPL_Haza_Zaidan_Zidna_Fann_2311104056_SISE0702

Jurnal_1_2311104056.json

```
1  {
2    "FirstName": "Haza",
3    "LastName": "Fann",
4    "Gender": "Male",
5    "Age": 19,
6    "Address": {
7      "StreetAddress": "Pegandon",
8      "City": "Kendal",
9      "State": "Central Java"
10   },
11   "Courses": [
12     {
13       "Code": "CRI2C4",
14       "Name": "Konstruksi Perangkat Lunak"
15     },
16     {
17       "Code": "CRI2C3",
18       "Name": "Pemodelan Perangkat Lunak"
19     }
20   ]
21 }
22
```

```
1  {
2    "members": [
3      {
4        "firstName": "Haza",
5        "lastName": "Fann",
6        "gender": "male",
7        "age": 19,
8        "nim": "2311104056"
9      },
10     {
11       "firstName": "Jauhar",
12       "lastName": "Zuhair",
13       "gender": "male",
14       "age": 21,
15       "nim": "2311104072"
16     },
17     {
18       "firstName": "Pradana",
19       "lastName": "Pangestu",
20       "gender": "male",
21       "age": 20,
22       "nim": "2311104079"
23     },
24     {
25       "firstName": "Izzaty",
26       "lastName": "barus",
27       "gender": "female",
28       "age": 20,
29       "nim": "2311104052"
30     },
31     {
32       "firstName": "Rizaldy",
33       "lastName": "Rachman",
34       "gender": "male",
35       "age": 20,
36       "nim": "2311104051"
37     }
38   ]
39 }
```



```
1  {
2    "GlossDiv": {
3      "GlossList": {
4        "GlossEntry": {
5          "ID": "SGML",
6          "SortAs": "SGML",
7          "GlossTerm": "Standard Generalized Markup Language",
8          "Acronym": "SGML",
9          "Abbrev": "ISO 8879:1986",
10         "Title": "Glossary Entry",
11         "GlossSee": "markup"
12       }
13     }
14   }
15 }
```

TeamMembers_2311104056.cs

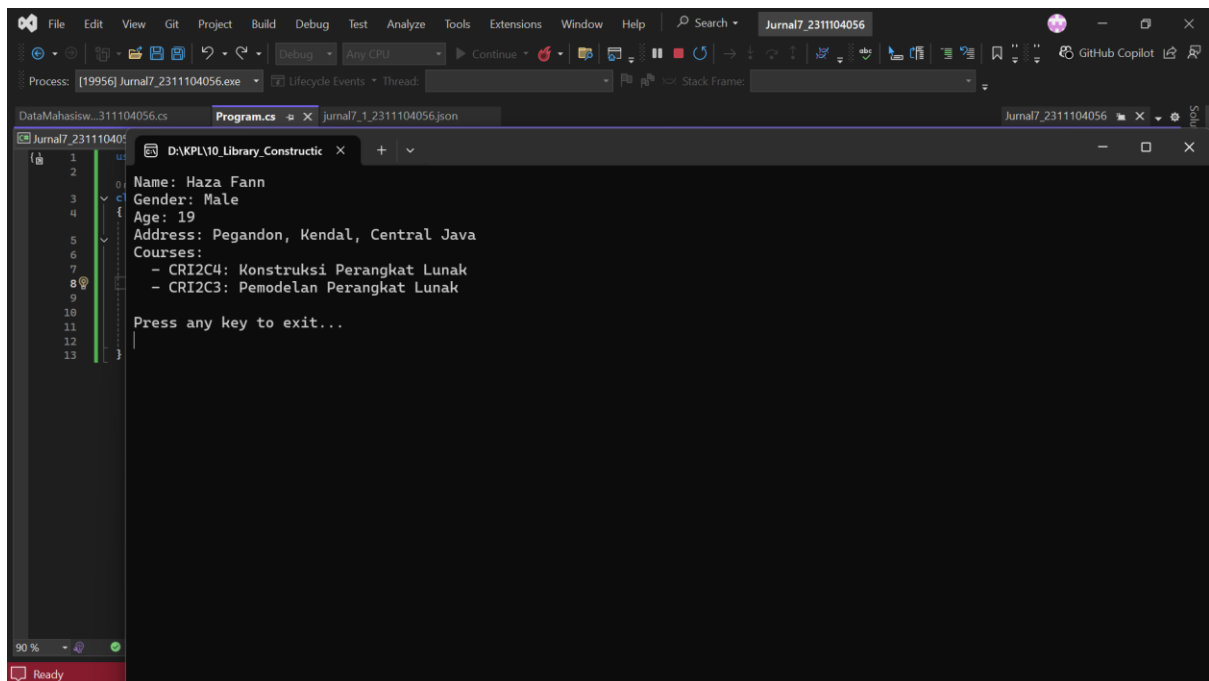
```
1  using System;
2  using System.Collections.Generic;
3  using System.IO;
4  using System.Text.Json;
5
6  public class TeamMembers2311104056
7  {
8      public class Member
9      {
10         public string firstName { get; set; }
11         public string lastName { get; set; }
12         public string gender { get; set; }
13         public int age { get; set; }
14         public string nim { get; set; }
15     }
16
17     public class MembersData
18     {
19         public List<Member> members { get; set; }
20     }
21
22     public static void ReadJSON()
23     {
24         try
25         {
26             string filePath = "jurnal7_2_2311104056.json";
27             string jsonString = File.ReadAllText(filePath);
28
29             MembersData data = JsonSerializer.Deserialize<MembersData>(jsonString);
30
31             Console.WriteLine("Team member list:");
32             foreach (var m in data.members)
33             {
34                 Console.WriteLine($"{m.nim} {m.firstName} {m.lastName} ({m.age} {m.gender})");
35             }
36         }
37         catch (Exception ex)
38         {
39             Console.WriteLine("Gagal : " + ex.Message);
40         }
41
42         Console.ReadLine();
43     }
44 }
```

DataMahasiswa_2311104056.cs

```
1 using System.Text.Json;
2
3 public class Address
4 {
5     public string StreetAddress { get; set; }
6     public string City { get; set; }
7     public string State { get; set; }
8 }
9
10 public class Course
11 {
12     public string Code { get; set; }
13     public string Name { get; set; }
14 }
15
16 public class DataMahasiswa_2311104056
17 {
18     public string FirstName { get; set; }
19     public string LastName { get; set; }
20     public string Gender { get; set; }
21     public int Age { get; set; }
22     public Address Address { get; set; }
23     public List<Course> Courses { get; set; }
24
25     public void ReadJSON()
26     {
27         string filePath = "jurnal7_1_2311104056.json";
28         try
29         {
30             string jsonData = File.ReadAllText(filePath);
31             var mahasiswa = JsonSerializer.Deserialize<DataMahasiswa_2311104056>(jsonData);
32
33             Console.WriteLine($"Name: {mahasiswa.FirstName} {mahasiswa.LastName}");
34             Console.WriteLine($"Gender: {mahasiswa.Gender}");
35             Console.WriteLine($"Age: {mahasiswa.Age}");
36             Console.WriteLine($"Address: {mahasiswa.Address.StreetAddress}, {mahasiswa.Address.City}, {mahasiswa.Address.State}");
37             Console.WriteLine("Courses:");
38
39             foreach (var course in mahasiswa.Courses)
40             {
41                 Console.WriteLine($"  - {course.Code}: {course.Name}");
42             }
43         }
44         catch (Exception ex)
45         {
46             Console.WriteLine("Error reading JSON: " + ex.Message);
47         }
48     }
49 }
```

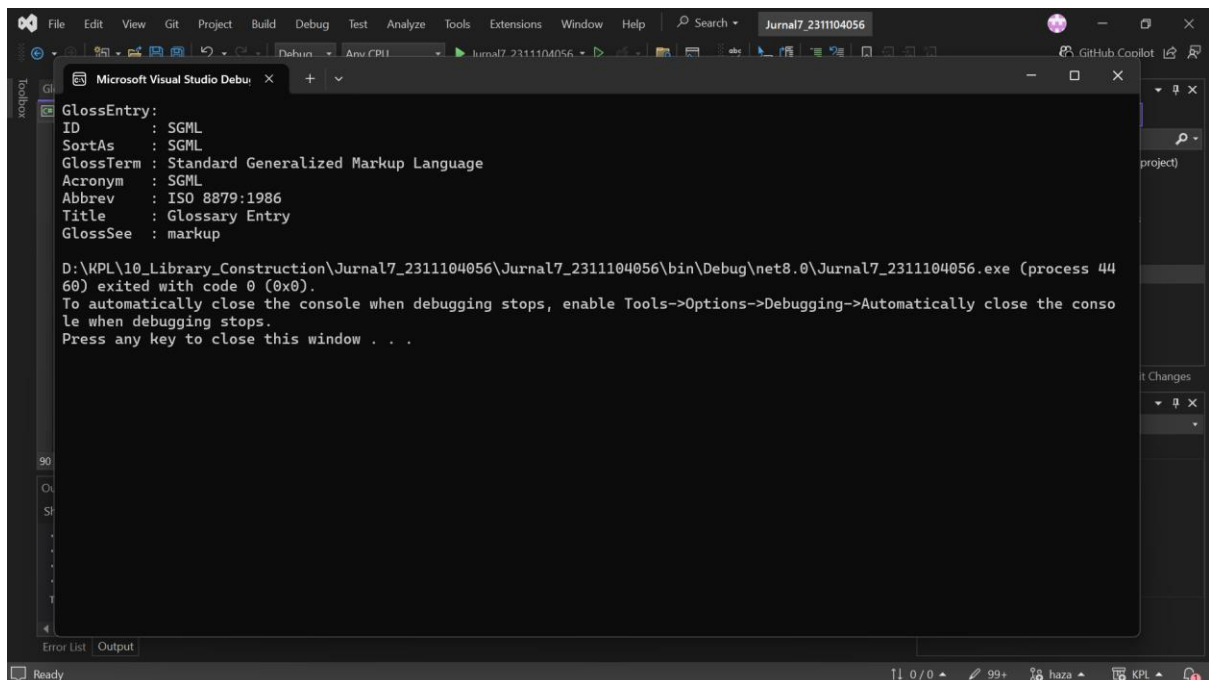
```
1  using System;
2  using System.IO;
3  using System.Text.Json;
4
5  public class GlossEntry
6  {
7      public string ID { get; set; }
8      public string SortAs { get; set; }
9      public string GlossTerm { get; set; }
10     public string Acronym { get; set; }
11     public string Abbrev { get; set; }
12     public string Title { get; set; }
13     public string GlossSee { get; set; }
14 }
15
16 public class GlossList
17 {
18     public GlossEntry GlossEntry { get; set; }
19 }
20
21 public class GlossDiv
22 {
23     public GlossList GlossList { get; set; }
24 }
25
26 public class GlossRoot
27 {
28     public GlossDiv GlossDiv { get; set; }
29 }
30
31 public class GlossaryItem2311104056
32 {
33     public static void ReadJSON()
34     {
35         string json = File.ReadAllText("jurnal7_3_2311104056.json");
36         GlossRoot root = JsonSerializer.Deserialize<GlossRoot>(json);
37         GlossEntry entry = root.GlossDiv.GlossList.GlossEntry;
38
39         Console.WriteLine("GlossEntry:");
40         Console.WriteLine($"ID      : {entry.ID}");
41         Console.WriteLine($"SortAs   : {entry.SortAs}");
42         Console.WriteLine($"GlossTerm : {entry.GlossTerm}");
43         Console.WriteLine($"Acronym   : {entry.Acronym}");
44         Console.WriteLine($"Abbrev    : {entry.Abbrev}");
45         Console.WriteLine($"Title     : {entry.Title}");
46         Console.WriteLine($"GlossSee  : {entry.GlossSee}");
47     }
48 }
```

Hasil Run:



The screenshot shows the Visual Studio Code interface with a C# program running. The output window displays the following text:

```
1
2
3 Name: Haza Fann
4 Gender: Male
5 Age: 19
6 Address: Pegandon, Kendal, Central Java
7 Courses:
8   - CRI2C4: Konstruksi Perangkat Lunak
9   - CRI2C3: Pemodelan Perangkat Lunak
10
11 Press any key to exit...
12
13
```



The screenshot shows the Visual Studio Code interface with the console output window open. The output displays the following text:

```
GlossEntry:
ID      : SGML
SortAs  : SGML
GlossTerm : Standard Generalized Markup Language
Acronym : SGML
Abbrev   : ISO 8879:1986
Title   : Glossary Entry
GlossSee : markup

D:\KPL\10.Library_Construction\Jurnal7_2311104056\Jurnal7_2311104056\bin\Debug\net8.0\Jurnal7_2311104056.exe (process 4460) exited with code 0 (0x0).
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 . . .
```

```
Team member list:
2311104056 Haza Fann (19 male)
2311104072 Jauhar Zuhair (21 male)
2311104079 Pradana Pangestu (20 male)
2311104052 Izzaty barus (20 female)
2311104051 Rizaldy Rachman (20 male)
```

File JSON (Jurnal_1, Jurnal_2, Jurnal_3)

Berisi data yang kemungkinan digunakan sebagai input atau data awal untuk program. Masing-masing JSON menyimpan struktur data tertentu, misalnya daftar anggota tim atau data mahasiswa.

File C# (.cs)

- **TeamMembers_2311104056.cs:** Mendefinisikan kelas yang menangani data anggota tim (seperti nama, peran).
- **DataMahasiswa_2311104056.cs:** Berisi representasi data mahasiswa, seperti NIM, nama, dan program studi.
- **GlossaryItem_2311104056.cs:** Kemungkinan berisi struktur untuk item glosarium, berisi istilah dan definisinya.

Hasil Run

Output yang dihasilkan dari eksekusi program C# dengan memanfaatkan data dari file JSON di atas. Output ini mungkin berupa:

- Daftar anggota tim yang berhasil dibaca.
 - Data mahasiswa yang diproses.
 - Glosarium yang di-load dan ditampilkan.
- Semua ini menunjukkan keberhasilan parsing file JSON dan menampilkannya dalam format yang sesuai di aplikasi.