

TASK REPORT
WEB PROGRAMING
WEEK 10



Created by:
Cesario Hafidh Arifa Noorcholish
L200224217

X

INFORMATICS ENGINEERING
FACULTY OF COMMUNICATION AND INFORMATICS
UNIVERSITAS MUHAMMADIYAH SURAKARTA
2023/2024

TASK

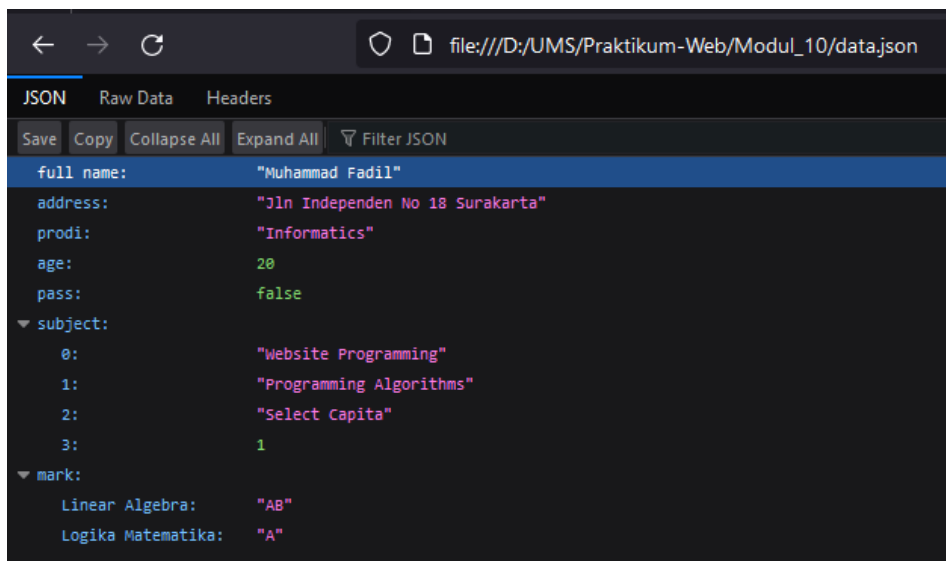
1. Experiment 1 (File JSON)

- Code



```
{
  "full name": "Muhammad Fadil",
  "address": "Jln Independen No 18 Surakarta",
  "prodi": "Informatics",
  "age": 20,
  "pass": false,
  "subject": [
    "Website Programming",
    "Programming Algorithms",
    "Select Capita",
    1
  ],
  "mark": {
    "Linear Algebra": "AB",
    "Logika Matematika": "A"
  }
}
```

- Result



2. Experiment 2 (JSON file with array data type)

- Code

```
{
  "student": [
    {
      "full name": "Muhammad Fadil",
      "address": "Jln Independen No 18, Surakarta",
      "prodi": "Informatics",
      "age": 20,
      "pass": false,
      "subject": [
        "Website Programming",
        "Programming Algorithms",
        "Select Capita",
        1
      ],
      "mark": {
        "Linear Algebra": "AB",
        "Logika Matematika": "A"
      }
    },
    {
      "full name": "Budi Setiawan",
      "address": "Jln Pusaka Jawa No 12, Boyolali",
      "prodi": "Informatics",
      "age": 21,
      "pass": false,
      "subject": [
        "Computer Network",
        "Database System",
        "Thesis",
        1
      ],
      "mark": {
        "Linear Algebra": "A",
        "Logika Matematika": "A"
      }
    }
  ]
}
```

- Result

The screenshot shows a JSON viewer application with the following interface:

- Address bar: file:///D:/UMS/Praktikum-Web/Modul_10/Mahasiswa.json
- Tabs: JSON (selected), Raw Data, Headers
- Buttons: Save, Copy, Collapse All, Expand All, Filter JSON
- Tree view showing the JSON structure:

```
▼ student:
  ▼ 0:
    full name: "Muhammad Fadil"
    address: "Jln Independen No 18, Surakarta"
    prodi: "Informatics"
    age: 20
    pass: false
    ▼ subject:
      0: "Website Programming"
      1: "Programming Algorithms"
      2: "Select Capita"
      3: 1
    ▼ mark:
      Linear Algebra: "AB"
      Logika Matematika: "A"
  ▼ 1:
    full name: "Budi Setiawan"
    address: "Jln Pusaka Jawa No 12, Boyolali"
    prodi: "Informatics"
    age: 21
    pass: false
    ▼ subject:
      0: "Computer Network"
      1: "Database System"
      2: "Thesis"
      3: 1
    ▼ mark:
      Linear Algebra: "A"
      Logika Matematika: "A"
```

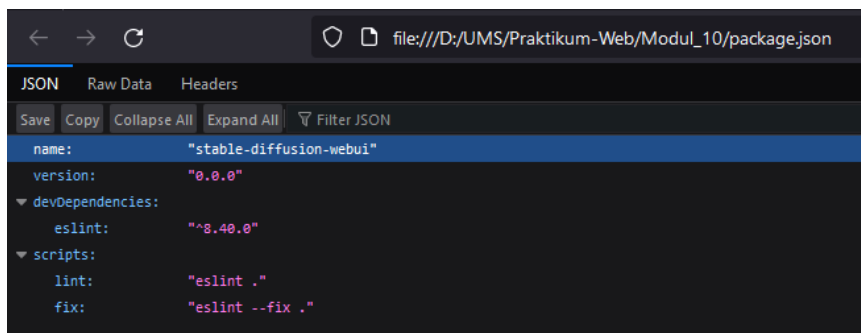
3. Experiment 3 (External JSON)

- Code



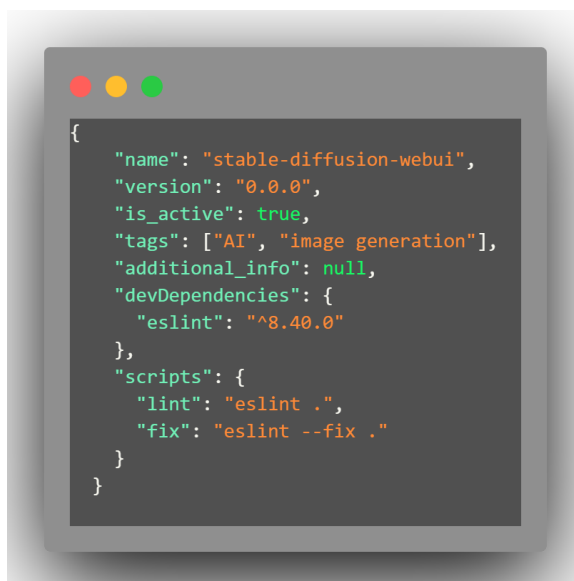
```
{
  "name": "stable-diffusion-webui",
  "version": "0.0.0",
  "devDependencies": {
    "eslint": "^8.40.0"
  },
  "scripts": {
    "lint": "eslint .",
    "fix": "eslint --fix ."
  }
}
```

- Result



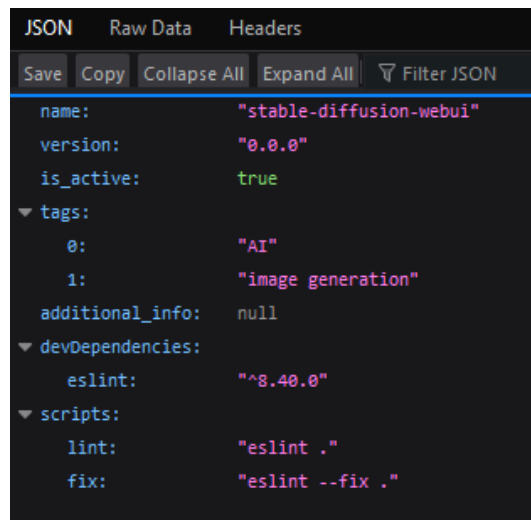
4. Experiment 4 (Updated External JSON)

- Code



```
{
  "name": "stable-diffusion-webui",
  "version": "0.0.0",
  "is_active": true,
  "tags": ["AI", "image generation"],
  "additional_info": null,
  "devDependencies": {
    "eslint": "^8.40.0"
  },
  "scripts": {
    "lint": "eslint .",
    "fix": "eslint --fix ."
  }
}
```

- Result



The image shows a JSON viewer interface with a dark theme. At the top, there are three tabs: 'JSON' (selected), 'Raw Data', and 'Headers'. Below the tabs is a toolbar with buttons for 'Save', 'Copy', 'Collapse All', 'Expand All', and a search icon followed by 'Filter JSON'. The main area displays a JSON object for 'stable-diffusion-webui'. The object has the following structure:

```
{
  "name": "stable-diffusion-webui",
  "version": "0.0.0",
  "is_active": true,
  "tags": {
    "0": "AI",
    "1": "image generation"
  },
  "additional_info": null,
  "devDependencies": {
    "eslint": "^8.40.0"
  },
  "scripts": {
    "lint": "eslint .",
    "fix": "eslint --fix ."
  }
}
```

ASSIGNMENT

1. Create JSON file that picture data of *matakuliah* this semester, with detailed!

- Main

```
{
  "Nama": "Cesario Hafidh Arifa Noorcholish",
  "NIM": "L20022417",
  "Prodi": "Informatics Technology",
  "Semester": "4",
  "Alamat": "Teras, Boyolali",
  "Usia": "20",
  "Matakuliah Yang diambil": ["1. Praktikum Jaringan Komputer",
    "2. Pemrograman WEB",
    "3. Jaringan Komputer",
    "4. Rekayasa Perangkat Lunak",
    "5. Organisasi dan Arsitektur Komputer",
    "6. Praktikum Algoritma dan Struktur Data",
    "7. Algoritma dan Struktur Data",
    "8. Sistem Multimedia",
    "9. Praktikum Pemrograman WEB",
    "10. Kemuhmadiyahahan" ],
  "Jadwal": [
    {
      "No": 1,
      "hari": "senin",
      "Jam": "3-4",
      "Ruang": "LSITIF",
      "kode matkul": "TIF3221133",
      "Mata kuliah": "Praktikum Jaringan Komputer",
      "Kelas": "K",
      "Dosen Pengampu": "Ihsan Cahyo Utomo, M.Kom"
    },
    {
      "No": 2,
      "hari": "senin",
      "Jam": "7-9",
      "Ruang": "SA706",
      "kode matkul": "TIF3221330",
      "Mata kuliah": "Pemrograman WEB",
      "Kelas": "K",
      "Dosen Pengampu": "Gunawan Ariyanto, ST. M.Comp Sc., Ph.D"
    },
    {
      "No": 3,
      "hari": "selasa",
      "Jam": "9-9",
      "Ruang": "J.Int.I",
      "kode matkul": "TIF3221332",
      "Mata kuliah": "Jaringan Komputer",
      "Kelas": "K",
      "Dosen Pengampu": "Yudi Wahyu Wibowo, ST, M.Eng"
    },
    {
      "No": 4,
      "hari": "selasa",
      "Jam": "10-12",
      "Ruang": "SA706",
      "kode matkul": "TIF3221334",
      "Mata kuliah": "Rekayasa Perangkat Lunak",
      "Kelas": "K",
      "Dosen Pengampu": "Yusuf Sulistyio Nugroho, Dr. Eng."
    },
    {
      "No": 5,
      "hari": "rabu",
      "Jam": "3-4",
      "Ruang": "SA706",
      "kode matkul": "TIF3221235",
      "Mata kuliah": "Organisasi dan Arsitektur Komputer",
      "Kelas": "K",
      "Dosen Pengampu": "Helmi Imaduddin, S.Kom., M.Eng."
    },
    {
      "No": 6,
      "hari": "rabu",
      "Jam": "5-6",
      "Ruang": "LABRPL",
      "kode matkul": "TIF3221129",
      "Mata kuliah": "Praktikum Algoritma dan Struktur Data",
      "Kelas": "K",
      "Dosen Pengampu": "Endang Wahyu Pamungkas, SKom, MKom."
    },
    {
      "No": 7,
      "hari": "rabu",
      "Jam": "7-8",
      "Ruang": "SA706",
      "kode matkul": "TIF3221328",
      "Mata kuliah": "Algoritma dan Struktur Data",
      "Kelas": "K",
      "Dosen Pengampu": "Endang Wahyu Pamungkas, SKom, MKom."
    },
    {
      "No": 8,
      "hari": "kamis",
      "Jam": "10-12",
      "Ruang": "J.Int.I",
      "kode matkul": "TIF3221353",
      "Mata kuliah": "Sistem Multimedia",
      "Kelas": "K",
      "Dosen Pengampu": "Khanun Roisatul Umah, S.Tr.T., M.Tr.Kom."
    },
    {
      "No": 9,
      "hari": "jumat",
      "Jam": "7-8",
      "Ruang": "LABRPL",
      "kode matkul": "TIF3221131",
      "Mata kuliah": "Praktikum Pemrograman WEB",
      "Kelas": "K",
      "Dosen Pengampu": "Gunawan Ariyanto, ST. M.Comp Sc., Ph.D"
    },
    {
      "No": 10,
      "hari": "senin",
      "Jam": "1-2",
      "Ruang": "J.Int.I",
      "kode matkul": "TIF1221227",
      "Mata kuliah": "Kemuhmadiyahahan",
      "Kelas": "K",
      "Dosen Pengampu": "Endang Fauziati, Prof. Dr. M.Hum"
    }
  ]
}
```

- Result

The screenshot shows a JSON viewer interface with the following data structure:

```

{
  "Nama": "Cesario Hafidh Arifa Noorcholish",
  "NIM": "L200224217",
  "Prodi": "Informatics Technology",
  "Semester": "4",
  "Alamat": "Teras, Boyolali",
  "Usia": "20",
  "Matakuliah Yang diambil": [
    { "id": 0, "name": "1. Praktikum Jaringan Komputer" },
    { "id": 1, "name": "2. Pemrograman WEB" },
    { "id": 2, "name": "3. Jaringan Komputer" },
    { "id": 3, "name": "4. Rekayasa Perangkat Lunak" },
    { "id": 4, "name": "5. Organisasi dan Arsitektur Komputer" },
    { "id": 5, "name": "6. Praktikum Algoritma dan Struktur Data" },
    { "id": 6, "name": "7. Algoritma dan Struktur Data" },
    { "id": 7, "name": "8. Sistem Multimedia" },
    { "id": 8, "name": "9. Praktikum Pemrograman WEB" },
    { "id": 9, "name": "10. Kemuhammadiyahan" }
  ],
  "Jadwal": [
    { "id": 0, "details": {
      "No": 1,
      "hari": "senin",
      "Jam": "3-4",
      "Ruang": "LSITIF",
      "kode matkul": "TIF3221133",
      "Mata kuliah": "Praktikum Jaringan Komputer",
      "Kelas": "X",
      "Dosen Pengampu": "Ihsan Cahyo Utomo, M.Kom"
    } },
    { "id": 1, "details": {
      "No": 2,
      "hari": "senin",
      "Jam": "7-9",
      "Ruang": "SW706",
      "kode matkul": "TIF3221330",
      "Mata kuliah": "Pemrograman WEB",
      "Kelas": "X",
      "Dosen Pengampu": "Gunawan Ariyanto, ST. M.Comp Sc., Ph.D"
    } },
    { "id": 2, "details": {
      "No": 3,
      "hari": "selasa",
      "Jam": "7-9",
      "Ruang": "J.Int.1",
      "kode matkul": "TIF3221332",
      "Mata kuliah": "Jaringan Komputer",
      "Kelas": "X",
      "Dosen Pengampu": "Yudi Mahyul Nibowo, ST, M.Eng"
    } }
  ]
}

```

** If there is a code that is difficult/cannot be understand. I have uploaded my code on my github.

** Untuk lebih jelas kodenya bisa lihat di github saya.

Link to My Github : https://github.com/Pidhhh/Praktikum-Web/tree/main/Modul_10