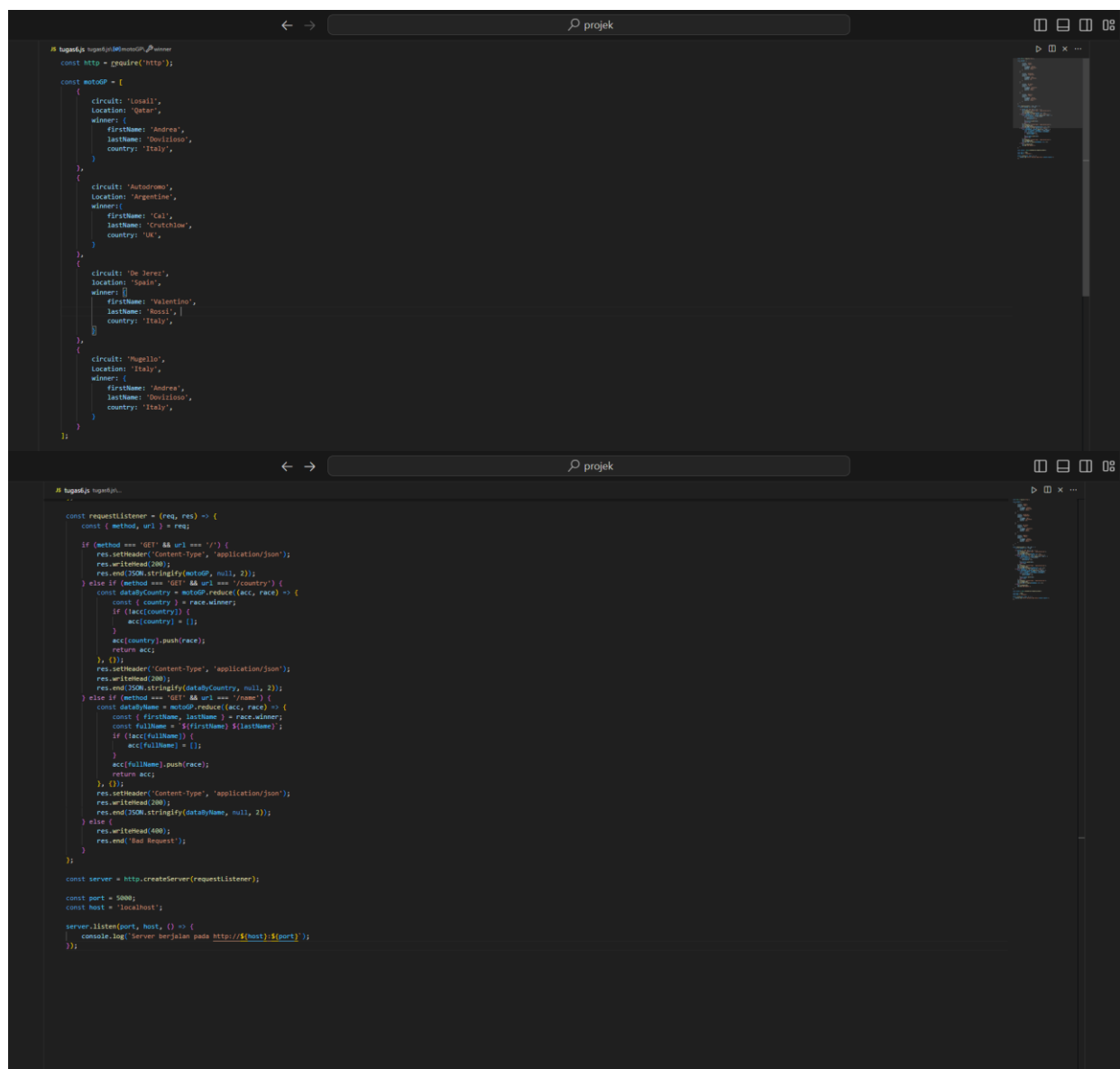


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## **TUGAS PEMROGRAMAN BERBASIS PLATFORM SESI 6**

1. Buat server Web untuk menangani permintaan dan tanggapan dengan data berikut:

Nama file : tugas6.js



```
const http = require('http');

const motoGP = [
  {
    circuit: 'Losail',
    location: 'Qatar',
    winner: {
      firstName: 'Andrea',
      lastName: 'Dovizioso',
      country: 'Italy',
    },
  },
  {
    circuit: 'Autodromo',
    location: 'Argentina',
    winner: {
      firstName: 'Cal',
      lastName: 'Crutchlow',
      country: 'UK',
    },
  },
  {
    circuit: 'De Jerez',
    location: 'Spain',
    winner: {
      firstName: 'Valentino',
      lastName: 'Rossi',
      country: 'Italy',
    },
  },
  {
    circuit: 'Mugello',
    location: 'Italy',
    winner: {
      firstName: 'Andrea',
      lastName: 'Dovizioso',
      country: 'Italy',
    },
  },
];

const requestListener = (req, res) => {
  const { method, url } = req;

  if (method === 'GET' && url === '/') {
    res.setHeader('Content-Type', 'application/json');
    res.writeHead(200);
    res.end(JSON.stringify(motoGP, null, 2));
  } else if (method === 'GET' && url === '/country') {
    const dataByCountry = motoGP.reduce((acc, race) => {
      const { country } = race.winner;
      if (!acc[country]) {
        acc[country] = [];
      }
      acc[country].push(race);
      return acc;
    }, {});
    res.setHeader('Content-Type', 'application/json');
    res.writeHead(200);
    res.end(JSON.stringify(dataByCountry, null, 2));
  } else if (method === 'GET' && url === '/fullName') {
    const dataByFullName = motoGP.reduce((acc, race) => {
      const { firstName, lastName } = race.winner;
      const fullName = `${firstName} ${lastName}`;
      if (!acc[fullName]) {
        acc[fullName] = [];
      }
      acc[fullName].push(race);
      return acc;
    }, {});
    res.setHeader('Content-Type', 'application/json');
    res.writeHead(200);
    res.end(JSON.stringify(dataByFullName, null, 2));
  } else {
    res.writeHead(400);
    res.end('Bad Request');
  }
};

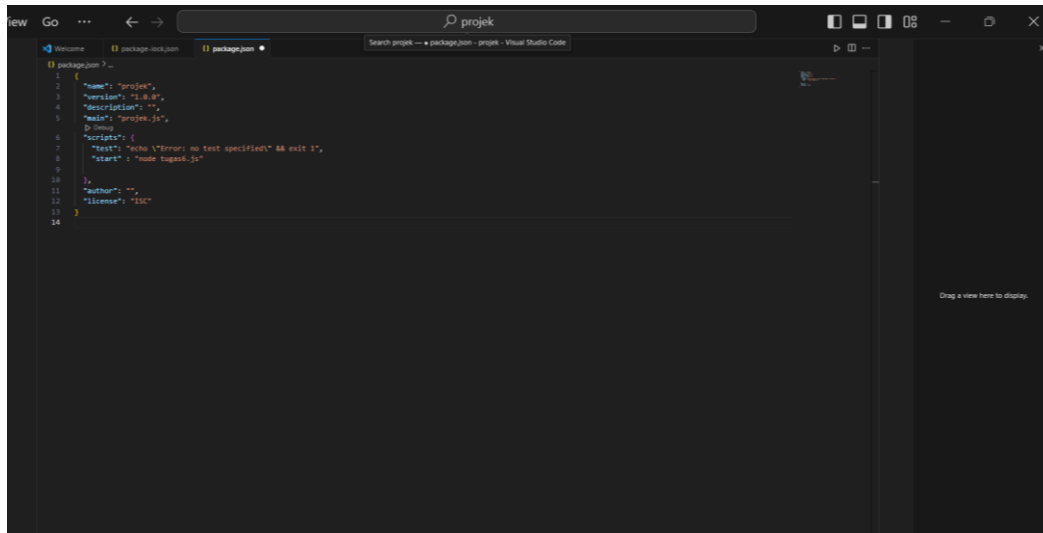
const server = http.createServer(requestListener);

const port = 5000;
const host = 'localhost';

server.listen(port, host, () => {
  console.log(`Server berjalan pada http://${host}:${port}`);
});
```

[https://github.com/IMARAIYN/tugas6\\_npm/blob/main/tugas6.js](https://github.com/IMARAIYN/tugas6_npm/blob/main/tugas6.js)

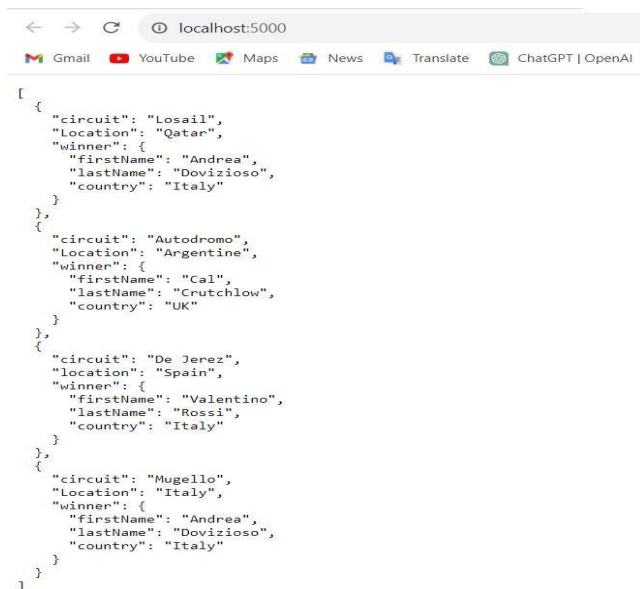
nama file : fackage.johnsn



```
1 {
2   "name": "projek",
3   "version": "1.0.0",
4   "description": "",
5   "main": "projek.js",
6   "scripts": {
7     "test": "echo \"Error: no test specified\" && exit 1",
8     "start": "node tugas6.js"
9   },
10  "author": "",
11  "license": "ISC"
12 }
```

[https://github.com/IMARAIYN/tugas6\\_npm/blob/main/package.json](https://github.com/IMARAIYN/tugas6_npm/blob/main/package.json)

2. Jika server diakses dengan alamat url: `http://localhost:5000`, maka akan muncul data secara lengkap



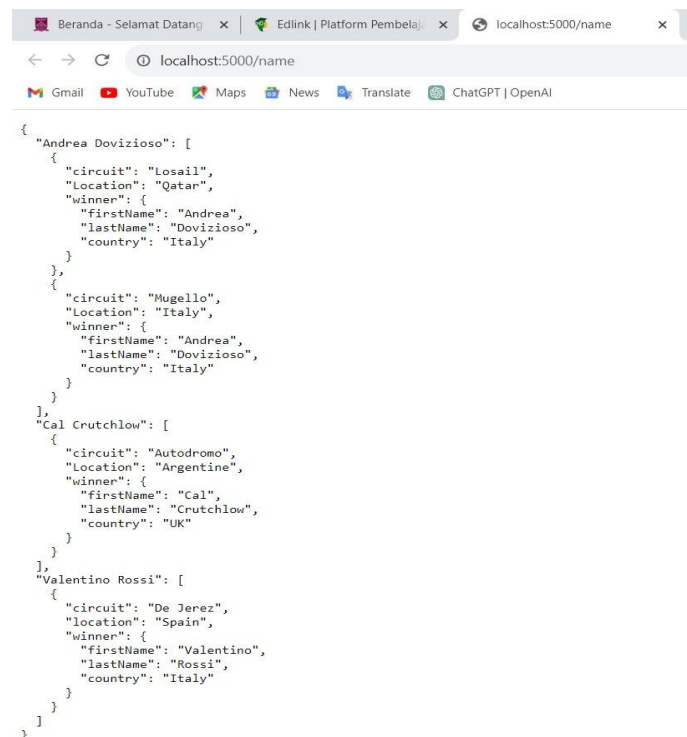
```
[
  {
    "circuit": "Losail",
    "Location": "Qatar",
    "winner": {
      "firstName": "Andrea",
      "lastName": "Dovizioso",
      "country": "Italy"
    }
  },
  {
    "circuit": "Autodromo",
    "Location": "Argentina",
    "winner": {
      "firstName": "Cal",
      "lastName": "Crutchlow",
      "country": "UK"
    }
  },
  {
    "circuit": "De Jerez",
    "Location": "Spain",
    "winner": {
      "firstName": "Valentino",
      "lastName": "Rossi",
      "country": "Italy"
    }
  },
  {
    "circuit": "Mugello",
    "Location": "Italy",
    "winner": {
      "firstName": "Andrea",
      "lastName": "Dovizioso",
      "country": "Italy"
    }
  }
]
```

3. Jika server diakses dengan alamat url: <http://localhost:5000/country> maka akan ditampilkan data berdasarkan pengelompokan negara.



```
{
  "Italy": [
    {
      "circuit": "Losail",
      "Location": "Qatar",
      "winner": {
        "firstName": "Andrea",
        "lastName": "Dovizioso",
        "country": "Italy"
      }
    },
    {
      "circuit": "De Jerez",
      "location": "Spain",
      "winner": {
        "firstName": "Valentino",
        "lastName": "Rossi",
        "country": "Italy"
      }
    },
    {
      "circuit": "Mugello",
      "Location": "Italy",
      "winner": {
        "firstName": "Andrea",
        "lastName": "Dovizioso",
        "country": "Italy"
      }
    }
  ],
  "UK": [
    {
      "circuit": "Autodromo",
      "Location": "Argentine",
      "winner": {
        "firstName": "Cal",
        "lastName": "Crutchlow",
        "country": "UK"
      }
    }
  ]
}
```

4. Jika server diakses dengan alamat url: <http://localhost:5000/name> maka akan ditampilkan data berdasarkan pengelompokan nama pemenang.



```
{
  "Andrea Dovizioso": [
    {
      "circuit": "Losail",
      "Location": "Qatar",
      "winner": {
        "firstName": "Andrea",
        "lastName": "Dovizioso",
        "country": "Italy"
      }
    },
    {
      "circuit": "Mugello",
      "Location": "Italy",
      "winner": {
        "firstName": "Andrea",
        "lastName": "Dovizioso",
        "country": "Italy"
      }
    }
  ],
  "Cal Crutchlow": [
    {
      "circuit": "Autodromo",
      "Location": "Argentine",
      "winner": {
        "firstName": "Cal",
        "lastName": "Crutchlow",
        "country": "UK"
      }
    }
  ],
  "Valentino Rossi": [
    {
      "circuit": "De Jerez",
      "location": "Spain",
      "winner": {
        "firstName": "Valentino",
        "lastName": "Rossi",
        "country": "Italy"
      }
    }
  ]
}
```

5. Selain url akan muncul "Bad Request"

