TUGAS INDIVIDU

PEMROGRAMAN BERBASIS FRAMEWORK

PERTEMUAN 2



Disusun oleh:

Rijal Ammar Irsyadul Ibad

TI-3B/2041720184

D4 TEKNIK INFORMATIKA

TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG

2023

A. Memproses Object pada JS

```
cl-- Rijal Ammar Insyadul Ibad/2841720184/T138/15 -->
clDOCTYPE html>
cltml lang="en">
chead>
cmeta Attp-equiv="X-UA-Compatible" content="IE=edge">
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cmeta name="viewport" content="width=device-width, initial-scale=1.0">
citlosReact Undercover</titlo>
chead>
chody>
chlosBelajar JavaScript (ES6)</hl>
cscript>
let mahasiswa = {
    nama: "Rijal Ammar",
    unur: 21,
    jurusan: "Teknik Informatika",
    getInfo() {
    return '${this.nama} (${this.umur} tahun) dari jurusan ${this.jurusan}^*;
    }
}
console.log(mahasiswa);
// {nama: "Rijal Ammar", umur: 21, jurusan: "Teknik Informatika", getinfo: f)

mahasiswa.umur = 20;
mahasiswa.umur = 20;
mahasiswa.umur = 20;
mahasiswa.umur = 20;
// (nama: "Rijal Ammar", umur: 21, jurusan: "Teknik Informatika", tempatlahir: "Malang", getinfo: f)

console.log(mahasiswa);
// (nama: "Rijal Ammar", umur: 21, jurusan: "Teknik Informatika", tempatlahir: "Malang", getinfo: f)

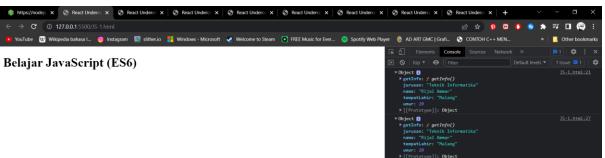
console.log(mahasiswa);
// (nama: "Rijal Ammar", umur: 21, jurusan: "Teknik Informatika", tempatlahir: "Malang", getinfo: f)

console.log(mahasiswa);
// (nama: "Rijal Ammar", umur: 21, jurusan: "Teknik Informatika", tempatlahir: "Malang", getinfo: f)

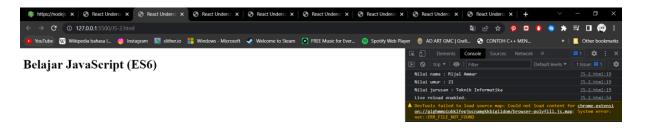
console.log(mahasiswa);
// (nama: "Rijal Ammar", umur: 21, jurusan: "Teknik Informatika", tempatlahir: "Malang", getinfo: f)

console.log(mahasiswa);
// (nama: "Rijal Ammar", umur: 21, jurusan: "Teknik Informatika", tempatlahir: "Malang", getinfo: f)

console.log(mahasiswa);
// (nama: "Rijal Ammar", umur: 21, jurusan: "Teknik Informatika", tempatlahir: "Malang", getinfo: f)
```

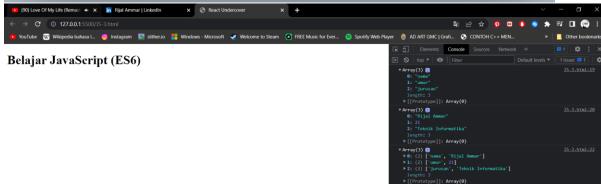


```
<!DOCTYPE html>
    <html lang="en">
   <head>
       <meta charset="UTF-8">
       <meta http-equiv="X-UA-Compatible" content="IE=edge">
       <meta name="viewport" content="width=device-width, initial-scale=1.0">
       <title>React Undercover</title>
9 </head>
   <body>
       <h1>Belajar JavaScript (ES6)</h1>
       <script>
           let mahasiswa = {
               nama: "Rijal Ammar",
               umur: 21,
               jurusan: "Teknik Informatika",
           for (prop in mahasiswa){
               console.log(`Nilai ${prop} : ${mahasiswa[prop]}`);
       </script>
27 </body>
   </html>
```

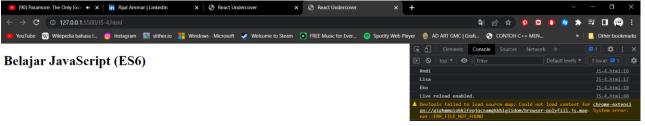


B. Contoh Penggunaan Memproses Object pada JS

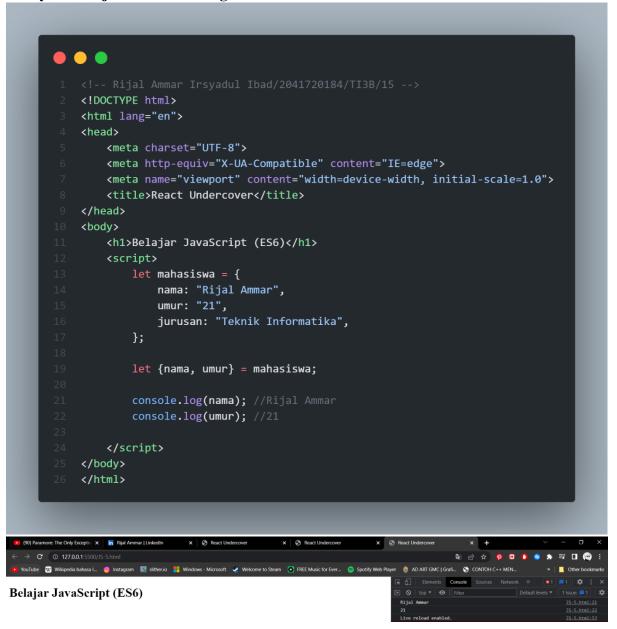
```
<!DOCTYPE html>
   <html lang="en">
   <head>
        <meta charset="UTF-8">
        <meta http-equiv="X-UA-Compatible" content="IE=edge">
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
        <title>React Undercover</title>
   <body>
        <h1>Belajar JavaScript (ES6)</h1>
            let mahasiswa = {
                nama: "Rijal Ammar",
                 umur: 21,
jurusan: "Teknik Informatika",
            console.log(Object.keys(mahasiswa));  //["nama", "umur", "jurusan"]
console.log(Object.values(mahasiswa));  //["Rijal", "21", "Teknik Informatika"]
             console.log(Object.entries(mahasiswa));
        </script>
    </body>
    </html>
```

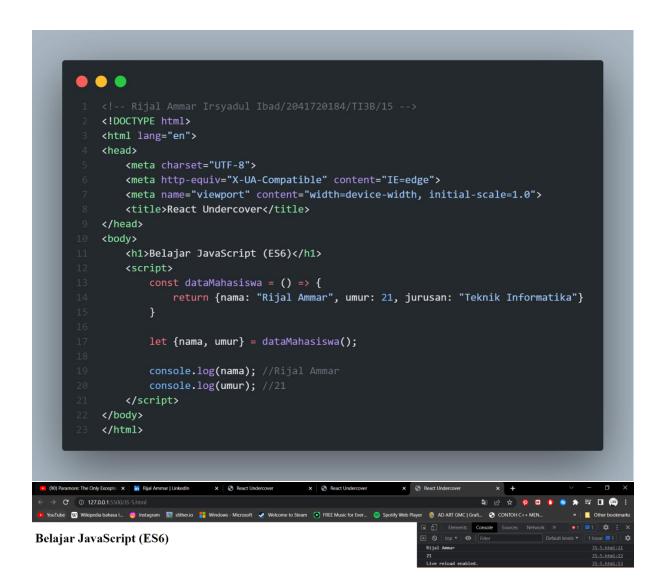


```
<!DOCTYPE html>
    <html lang="en">
    <head>
       <meta charset="UTF-8">
       <meta http-equiv="X-UA-Compatible" content="IE=edge">
       <meta name="viewport" content="width=device-width, initial-scale=1.0">
       <title>React Undercover</title>
    </head>
    <body>
       <h1>Belajar JavaScript (ES6)</h1>
       <script>
           let mahasiswa = ["Andi", "Lisa", "Eko"];
           let [a, b, c] = mahasiswa;
           console.log(a); //Andi
           console.log(b); //Lisa
           console.log(c); // Eko
        </script>
   </body>
    </html>
```



C. Array dan Object Destructuring





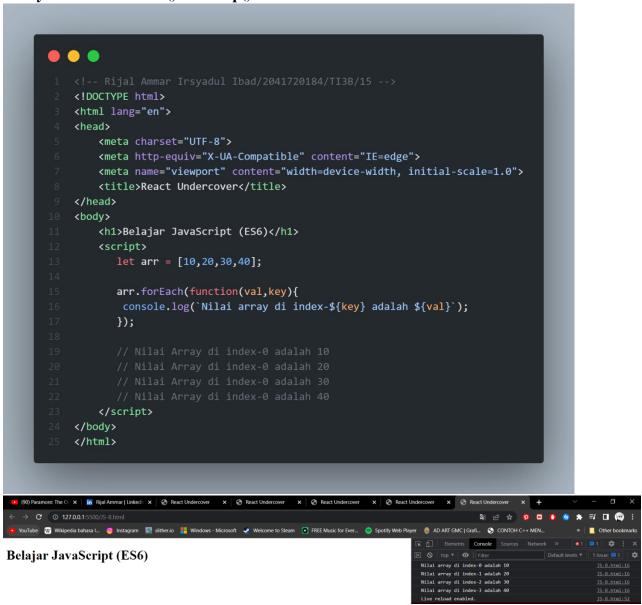
```
<!DOCTYPE html>
           <html lang="en">
           <head>
               <meta charset="UTF-8">
                <meta http-equiv="X-UA-Compatible" content="IE=edge">
               <meta name="viewport" content="width=device-width, initial-scale=1.0">
               <title>React Undercover</title>
           </head>
           <body>
               <h1>Belajar JavaScript (ES6)</h1>
               <script>
                    const dataMahasiswa = () => {
                        return {nama: "Rijal Ammar", umur: 21, jurusan: "Teknik Informatika"}
                    let {nama: namaMahasiswa, umur: umurMahasiswa} = dataMahasiswa();
                    console.log(namaMahasiswa); //Rijal Ammar
                    console.log(umurMahasiswa); //21
               </script>
           </body>
           </html>
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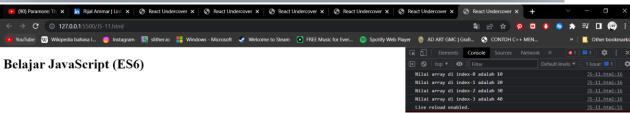
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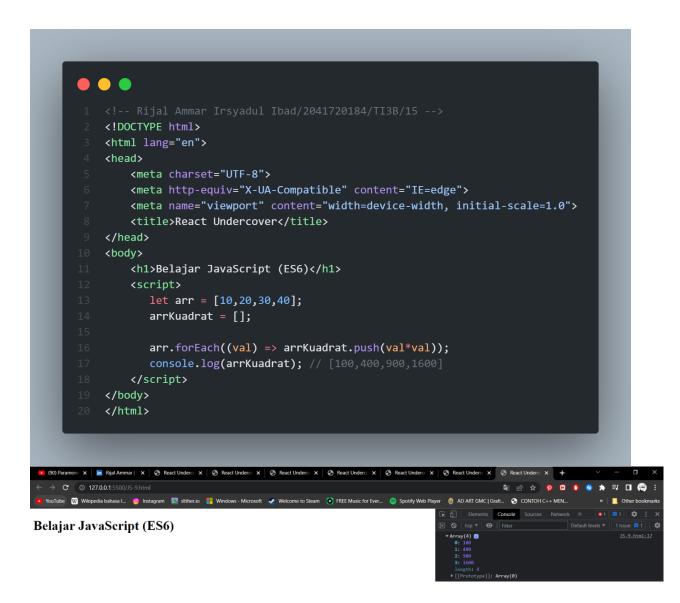
Rijal Ammar
Belajar JavaScript (ES6)
```

D. Array Method: forEach() dan map()



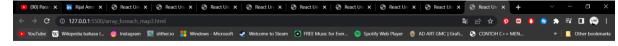
```
<!DOCTYPE html>
   <html lang="en">
   <head>
        <meta charset="UTF-8">
       <meta http-equiv="X-UA-Compatible" content="IE=edge">
       <meta name="viewport" content="width=device-width, initial-scale=1.0">
       <title>React Undercover</title>
   </head>
   <body>
       <h1>Belajar JavaScript (ES6)</h1>
       <script>
          let arr = [10,20,30,40];
          arr.forEach( (val,key) =>
          console.log(`Nilai array di index-${key} adalah ${val}`));
       </script>
   </body>
   </html>
```





```
<!DOCTYPE html>
          <html lang="en">
          <head>
              <meta charset="UTF-8">
             <meta http-equiv="X-UA-Compatible" content="IE=edge">
             <meta name="viewport" content="width=device-width, initial-scale=1.0">
             <title>React Uncover</title>
          </head>
          <body>
             <h1>Belajar JavaScript (ES6)</h1>
              <script>
                 const mahasiswas = [
                         nama: "Eka",
                         umur: 19,
                         jurusan: "Teknik Informatika"
                     },
                         nama: "Lisa",
                         umur: 18,
jurusan: "Sistem Informasi"
                         nama: "Rudi",
                         umur: 19,
                         jurusan: "Teknik Elektro"
                      `${mahasiswa.nama} (${mahasiswa.umur}), ${mahasiswa.jurusan}`;
                 const formatMahasiswas = mahasiswas.map(prosesMahasiswa);
             </script>
          </body>
          </html>
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 🔻 YouTube 🔞 Wikipedia bahasa L. 🧔 Instagram 🕵 sitherio 🚦 Windows - Microsoft 🛫 Welcome to Steam 🔞 FREE Music for Ever... 🔞 Spotify Web Player 🐧 AD ART GMC | Grafi... 📀 CONTOH C++ MEN...
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Belajar JavaScript (ES6)
```

```
. .
    <!DOCTYPE html>
        <meta charset="UTF-8">
        <meta http-equiv="X-UA-Compatible" content="IE=edge">
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
        <title>React Uncover</title>
    </head>
    <body>
        <h1>Belajar JavaScript (ES6)</h1>
        <div id="root"></div>
        <button onclick="renderData()">Tampilkan Data Mahasiswa/button>
        <script>
                    nama: "Eka",
                    umur: 19,
jurusan: "Teknik Informatika"
                },
                    nama: "Lisa",
                    umur: 18,
jurusan: "Sistem Informasi"
                    nama: "Rudi",
                    umur: 19,
jurusan: "Teknik Elektro"
            const prosesMahasiswa = (mahasiswa) =>
                 `${mahasiswa.nama} (${mahasiswa.umur} tahun) -
                    <i>${mahasiswa.jurusan}</i>;
            const formatMahasiswas = mahasiswas.map(prosesMahasiswa);
        </script>
    </body>
    </html>
```



Belajar JavaScript (ES6)

Eka (19 tahun) - Teknik Informatika Lisa (18 tahun) - Sistem Informasi Rudi (19 tahun) - Teknik Elektro Tampilkan Data Mahasiswa E. Asynchronous JavaScript (Promise / Async - Await)

```
<!DOCTYPE html>
          <html lang="en">
          <head>
              <meta charset="UTF-8">
              <meta http-equiv="X-UA-Compatible" content="IE=edge">
              <meta name="viewport" content="width=device-width, initial-scale=1.0">
              <title>React Uncover</title>
          </head>
          <body>
             <h1>Belajar JavaScript (ES6)</h1>
              <script>
                const getUser = () => "Rudi";
                console.log("Start..."); // Start...
                console.log(getUser()); // Rudi
                console.log("Finish");
             </script>
      19 </body>
          </html>

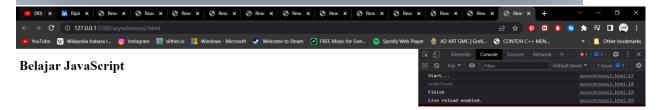
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Belajar JavaScript (ES6)
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                                                            <meta name="viewport" content="width=device-width, initial-scale=1.0">
                                                           <title>React Uncover</title>
                                            </head>
                                            <body>
                                                           <h1>Belajar JavaScript (ES6)</h1>
                                                           <script>
                                                                         const getUser = () => "Rudi";
                                                                          console.log("Start..."); // Start...
                                                                       console.log(getUser()); // Rudi
                                                                          console.log("Finish");
                                                            </script>
                              19 </body>
                                            </html>
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Belajar JavaScript (ES6)
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```
<!DOCTYPE html>
    <html lang="en">
   <head>
        <meta charset="UTF-8">
        <meta http-equiv="X-UA-Compatible" content="IE=edge">
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
        <title>React Uncover</title>
    </head>
    <body>
        <h1>Belajar JavaScript</h1>
        <script>
             const getUser = () => {
                  setTimeout(() => "Rudi", 2000)
             console.log("Start...");  // Start...
console.log(getUser());  // undefined
console.log("Finish");  // Finish
        </script>
    </body>
    </html>
```



```
<!DOCTYPE html>
                                          <html lang="en">
                                         <head>
                                                        <meta charset="UTF-8">
                                                         <meta http-equiv="X-UA-Compatible" content="IE=edge">
                                                         <meta name="viewport" content="width=device-width, initial-scale=1.0">
                                                        <title>React Uncover</title>
                                         </head>
                                         <body>
                                                         <h1>Belajar JavaScript</h1>
                                                         <script>
                                                                                                      console.log("Processing done!");
                                                                                                       return "Rudi";
                                                                                        }, 2000)
                                                                        console.log("Start..."); // Start...
                                                                        console.log(getUser());  // undefined
                                                                        console.log("Finish");
                                                        </script>
                                         </body>
                                          </html>
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      🔋 VouTube 📆 Wikipedia bahasa I... 🔞 Instagram 🔝 Sitherjo 👯 Windows - Microsoft 🐶 Welcome to Steam 💽 FREE Music for Ever... 🏐 Sportly Web Player 🔞 AD ART GMC | Graft... 📀 CONTOH C++ MEN...
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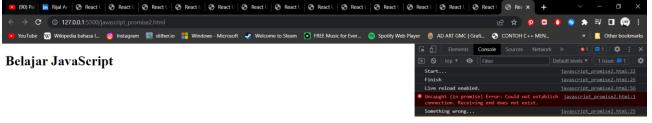
        Image: Image:
Belajar JavaScript
```

F. Asynchronous JavaScript (Promise / Async - Await)

```
<!DOCTYPE html>
               <html lang="en">
               <head>
                     <meta charset="UTF-8">
                     <meta http-equiv="X-UA-Compatible" content="IE=edge">
                      <meta name="viewport" content="width=device-width, initial-scale=1.0">
                      <title>React Uncover</title>
               </head>
               <body>
                    <h1>Belajar JavaScript</h1>
                     <script>
                          const getUser = () => {
                                 return new Promise((resolve) => {
                                       setTimeout(() => {
                                              resolve("Rudi");
                                         }, 2000)
                            console.log("Start..."); // Start...
                            getUser().then((userName) => console.log(userName));
                            console.log("Finish");
                     </script>
               </body>
                </html>
🗷 (90) X | 📊 Rija X | 😚 Rea X | 😚 Rea X | 💸 Rea X | 🖎 Rea X | \rat{100}
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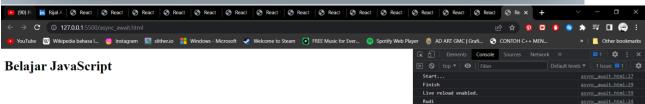


```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta http-equiv="X-UA-Compatible" content="IE=edge">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>React Uncover</title>
<body>
   <h1>Belajar JavaScript</h1>
    <script>
       const getUser = () => {
           return new Promise((resolve, reject) => {
                setTimeout(() => {
                   reject("Something wrong...");
                }, 2000)
        console.log("Start..."); // Start...
        getUser()
            .then((userName) => console.log(userName))
            .catch((error) => console.log(error));
       console.log("Finish");  // Finish
   </script>
</body>
</html>
```



G. Async - Await

```
<!DOCTYPE html>
   <html lang="en">
   <head>
       <meta charset="UTF-8">
       <meta http-equiv="X-UA-Compatible" content="IE=edge">
       <meta name="viewport" content="width=device-width, initial-scale=1.0">
       <title>React Uncover</title>
   </head>
   <body>
       <h1>Belajar JavaScript</h1>
       <script>
           const getUser = () => {
               return new Promise((resolve, reject) => {
                   setTimeout(() => {
                       resolve("Rudi");
                       reject("Something wrong...");
                   }, 2000)
           const tryGetGame = async () => {
               let userName = await getUser();
               console.log(userName);
           console.log("Start...");
           tryGetGame();
           console.log("Finish");
       </script>
   </body>
   </html>
```



```
<!DOCTYPE html>
    <html lang="en">
    <head>
       <meta charset="UTF-8">
       <meta http-equiv="X-UA-Compatible" content="IE=edge">
       <meta name="viewport" content="width=device-width, initial-scale=1.0">
       <title>React Uncover</title>
   </head>
   <body>
       <h1>Belajar JavaScript</h1>
       <script>
           const getUser = () => {
               return new Promise((resolve, reject) => {
                   setTimeout(() => {
                       reject("Something wrong...");
                   }, 2000)
                   let userName = await getUser();
                   console.log(userName);
               catch (error){
                   console.log(error);
           console.log("Start...");
           tryGetGame();
           console.log("Finish");
       </script>
   </body>
   </html>
```

