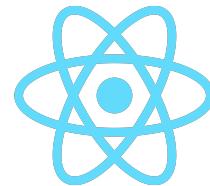




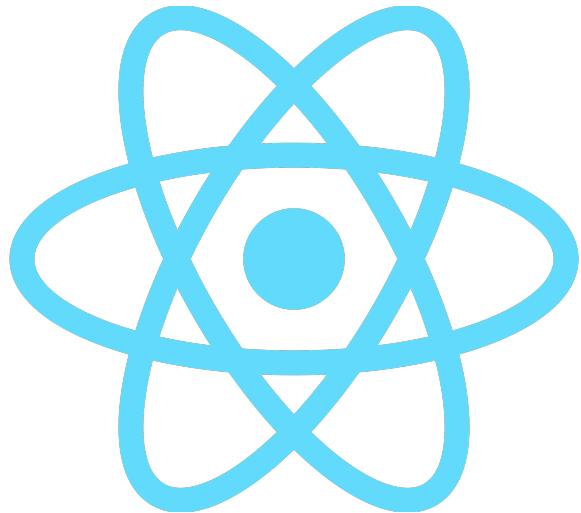
# Pemrograman Sisi Cleint ReactJS Dasar

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# Definisi



## FYI

ReactJS adalah sebuah pustaka JavaScript yang digunakan untuk membangun antarmuka pengguna, terutama untuk aplikasi web satu halaman. Dikembangkan oleh Facebook pada tahun 2013, ReactJS memungkinkan pengembang untuk membuat komponen UI yang besar dan dapat digunakan kembali.

# Definisi

```
● ● ●  
<!DOCTYPE html>  
<html lang="en">  
  <head>  
    <meta charset="UTF-8">  
    <title>AJAX dengan jQuery</title>  
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>  
  </head>  
  <body>  
  
    <h2>Daftar Post</h2>  
    <ul id="post-list"></ul>  
  
    <h2>Buat Post Baru</h2>  
    <form id="new-post-form">  
      <input type="text" id="title" placeholder="Judul" required><br>  
      <textarea id="body" placeholder="Isi Post" required></textarea><br>  
      <button type="submit">Kirim Post</button>  
    </form>  
  
    <h2>Detail Post</h2>  
    <div id="post-detail"></div>  
  
    <script src="script.js"></script>  
  
  </body>  
</html>
```



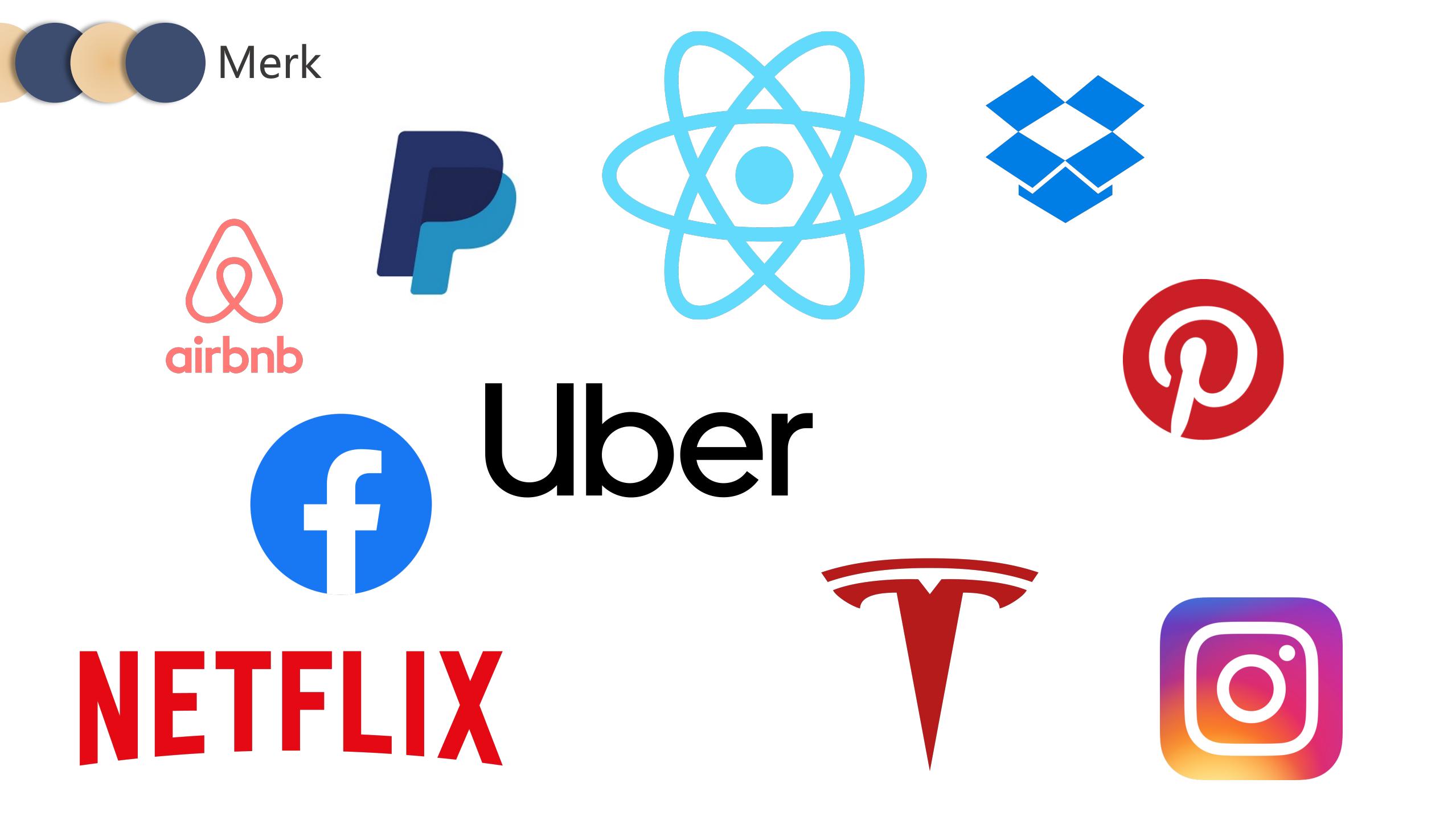
```
const name = 'Dunia';  
const element = <h1>Halo, {name}</h1>;
```



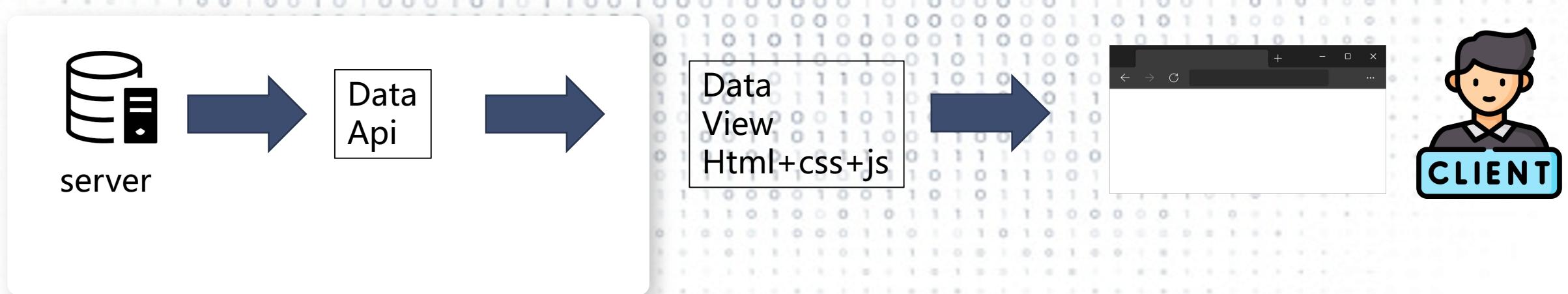
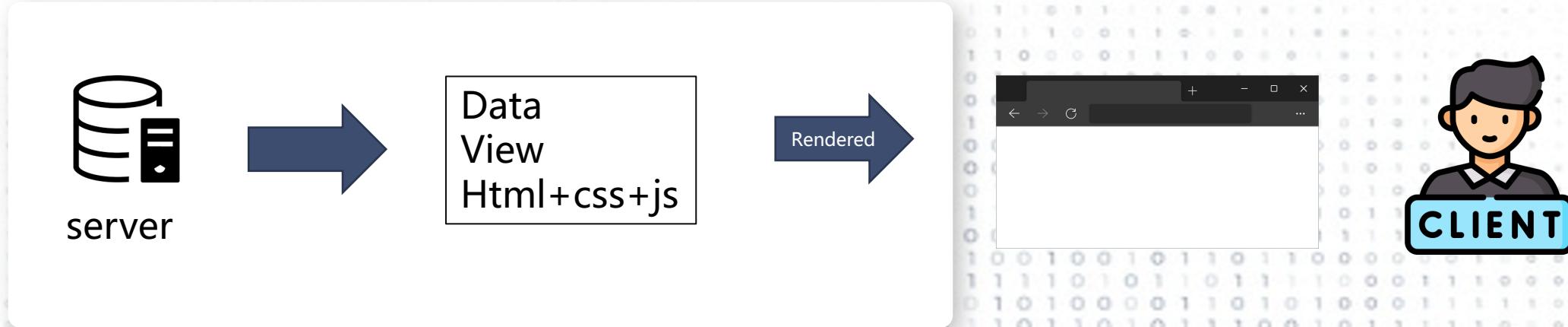
```
function Welcome(props) {  
  return <h1>Hello, {props.name}</h1>;  
}
```



```
const myElement = <div className="myClass">Hello World</div>;
```



# Konsep

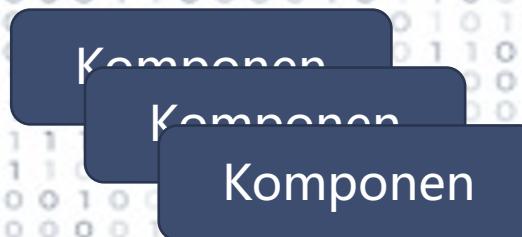


# Konsep

## Dasar

Pada dasarnya Website yang dikembangkan saat ini kebanyakan menggunakan konsep 1 halaman 1 technology

Dalam React 1 halaman N komponen



# Konsep Komponen

The screenshot shows the Traveloka website interface with several UI components highlighted by red boxes and labeled "Komponen".

- Header:** A dark blue header bar containing the Traveloka logo, language switch (EN / IDR), partnership status, saved bookings, and a user profile for "Muhammad | 9.821".
- Navigation:** A horizontal navigation bar with links for Hotels, Flights, Trains, Bus & Travel, Airport Transfer, Car Rental, Things to Do, and More.
- Promotions:** A section titled "Promos" showing offers like "Disc. up to IDR 1 Mio" and "Min. transaction IDR 900k with PayLater".
- Flight Search:** A search bar for "Jakarta (JKTA) → Singapore (SINA)" with travel dates from "Wed, 17 Apr 2024" to "Sat, 20 Apr 2024". It includes a "Student Ticket" button.
- Filter:** A sidebar titled "Filter:" with sections for "No. of Transit" (Direct, 1 transit(s), 2+ transits) and "Airline" (AirAsia Berhad (Malaysia), AirAsia Indonesia, Batik Air, Batik Air (Malaysia), China Airlines).
- Flight Options:** Two flight options listed:
  - Citilink:** Departure at 16:55 from CGK to SIN, duration 1h 45m, price Rp 716.400/pax, priority points 498. Includes tabs for Flight Details, Fare & Benefits, Refund, Reschedule, and Promos.
  - Batik Air:** Departure at 17:45 from CGK to SIN, duration 1h 50m, price Rp 773.800/pax, priority points 696. Includes tabs for Flight Details, Fare & Benefits, Refund, Reschedule, and Promos.
- Refund & Reschedule:** A promotional message: "Don't Worry, No Rugi! Plan your holiday with peace of mind! Our refund & reschedule features have got you covered. Check Now" with a green checkmark icon.

# Komponen

Komponen



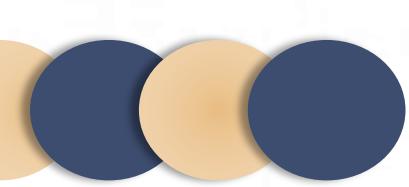
Data

Logika

Tampilan

The screenshot shows the Traveloka website interface for flight search. Several UI elements are highlighted with red boxes and labeled 'Komponen':

- Header:** Shows 'Komponen' in the top right corner.
- Search Bar:** Shows 'Jakarta (JKTA) → Singapore (SINA)' and travel dates from 'Tue, 16 Apr' to 'Sat, 20 Apr'.
- Flight Options:** Shows flight details for Citilink (16:55 CGK to 19:45 SIN), Batik Air (17:45 CGK to 20:35 SIN), and AirAsia Indonesia (18:45 CGK to 20:35 SIN).
- Filter Section:** Shows 'Filter:' and 'No. of Transit' options (Direct, 1 transit(s), 2+ transits).
- Airline Section:** Shows a list of airlines with their flight details and prices, such as AirAsia Berhad (Malaysia) for Rp 1.016.518.
- Footer:** Shows a message 'Don't Worry, No Rugi!' and a 'Check Now' button.



# Pembuatan Komponen

Pembuatan komponen terkesan menjadikan pembuatan aplikasi yang kita buat akan semakin lama namun dalam penerapannya setiap komponen yang kita buat dapat kita pergunakan kembali.

Dalam pembuatan komponen, konsep lain yang digunakan adalah props

**Konsep utama dari React adalah membuat UI tetap update dengan data**

# Mulai !

`npx create-react-app nama-aplikasi`

atau

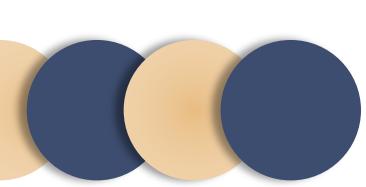
`react.new`

```
> node_modules
> public
▽ src
  # App.css
  JS App.js
  JS App.test.js
  # index.css
  JS index.js
  └─ logo.svg
  JS reportWebVitals.js
  JS setupTests.js
  .gitignore
  {} package-lock.json
  {} package.json
  ⓘ README.md
```



# Komponen

```
● ● ●  
export default function App( ){  
  return (  
    <div>  
      <h1>Selamat Datang</h1>  
      <p>  
        Hari ini hari yang cerah  
        untuk memulai hari baru dengan  
        skill baru  
      </p>  
    </div>  
  );  
}
```



# Komponen Komponen



```
export default function App( ){
    return (
        <div>
            <h1>Selamat Datang</h1>
            <Deskripsi />
        </div>
    );
}

function Deskripsi( ){
    <p>
        Hari ini hari yang cerah
        untuk memulai hari baru dengan
        skill baru
    </p>
}
```



# Komponen

● ● ●

```
export default function App(){
  return (
    <div>
      
      <h1>Judul Card</h1>
      <p>
        Ini adalah deskripsi singkat tentang card. Ini bisa berisi informasi atau pengantar tentang subjek card.
      </p>
      <a href="https://example.com">Learn More</a>
    </div>
  );
}
```



# Komponen

```
export default function App(){
  const judul = "Ini judul card";
  const deskripsi = "Ini adalah deskripsi singkat tentang card. Ini bisa berisi informasi atau pengantar tentang subjek card.";

  return (
    <div>
      
      <h1>{judul}</h1>
      <p>
        {deskripsi}
      </p>
      <a href="https://example.com">Learn More</a>
    </div>
  );
}
```



# Styling Komponen

```
/* src/Card.css */  
 .card {  
   border: 1px solid #ddd;  
   box-shadow: 0 2px 5px rgba(0,0,0,0.1);  
   width: 300px;  
   margin: 20px;  
   overflow: hidden;  
 }  
  
.card-image {  
  width: 100%;  
  height: 150px;  
  object-fit: cover;  
}  
  
.card-content {  
  padding: 15px;  
}  
  
.card-title {  
  margin: 0;  
  color: #333;  
}  
  
.card-description {  
  font-size: 14px;  
  color: #666;  
}  
  
.card-link {  
  display: inline-block;  
  margin-top: 10px;  
  color: #007BFF;  
  text-decoration: none;  
}
```

```
// src/Card.js  
import React from 'react';  
import './Card.css'; // Impor CSS  
  
export default function App(){  
  <div className="card">  
      
    <div className="card-content">  
      <h1 className="card-title">Judul Card</h1>  
      <p className="card-description">  
        Ini adalah deskripsi singkat tentang card. Ini bisa berisi  
        informasi atau pengantar tentang subjek card.  
      </p>  
      <a href="https://example.com" className="card-link">Learn More</a>  
    </div>  
  </div>  
};
```



# Reactjs x Bootstrap

**npm install bootstrap**

**yarn add bootstrap**

**atau**

```
import React from 'react';
import 'bootstrap/dist/css/bootstrap.min.css'; // Pastikan Bootstrap CSS diimpor

function BootstrapCard() {
  return (
    <div className="card" style={{ width: '18rem' }}> /* Atur lebar card */
      
      <div className="card-body">
        <h5 className="card-title">Judul Card</h5>
        <p className="card-text">Ini adalah deskripsi singkat tentang card. Ini bisa berisi informasi atau pengantar tentang subjek card.</p>
        <a href="https://example.com" className="btn btn-primary">Learn More</a>
      </div>
    </div>
  );
}

export default BootstrapCard;
```



# Reactjs x Tailwind

```
npm install -D tailwindcss@latest postcss@latest autoprefixer@latest
```

```
npx tailwindcss init -p
```



```
module.exports = {  
  content: [  
    "./src/**/*.{js,jsx,ts,tsx}",  
  ],  
  theme: {  
    extend: {},  
  },  
  plugins: [],  
}
```

Buka tailwind.config.js dan konfigurasikan content untuk mengarah ke file komponen React



# Reactjs x Tailwind



```
@tailwind base;  
@tailwind components;  
@tailwind utilities;
```

Di dalam file `src/index.css`, tambahkan direktif Tailwind

# Reactjs x Tailwind

```
import React from 'react';

function App() {
  return (
    <div className="p-4">
      <div className="max-w-sm rounded overflow-hidden shadow-lg">
        
        <div className="px-6 py-4">
          <div className="font-bold text-xl mb-2">Judul Card</div>
          <p className="text-gray-700 text-base">
            Ini adalah deskripsi singkat tentang card. Ini bisa berisi informasi atau pengantar tentang subjek card.
          </p>
        </div>
        <div className="px-6 pt-4 pb-2">
          <a href="https://example.com" className="inline-block bg-blue-500 rounded-full px-3 py-1 text-sm font-semibold text-white mr-2 mb-2">Learn More</a>
        </div>
      </div>
    </div>
  );
}

export default Card;
```



# Exercise



**PORTAL UDINUS**

**Login**

Home / Halaman Login Siadin Mahasiswa

**SIADIN LOGIN!**

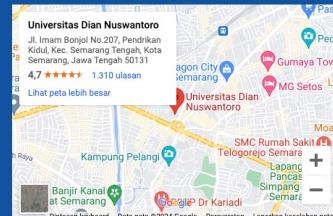
NIM

Password

[Siadin Activation/Reset Link \(Aktivasi/Reset/Lupa Password\)](#)

[Siadin Activation/Reset Tutorial](#)

**Login**

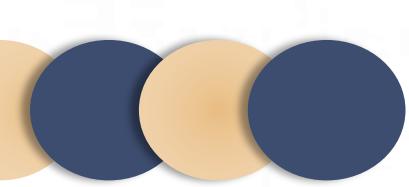


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- [sekretariat@dinus.ac.id](mailto:sekretariat@dinus.ac.id)

TRY... 

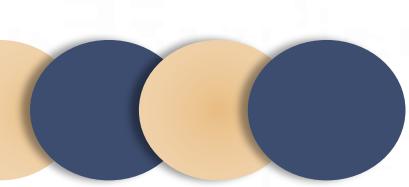
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# Exercise



Lets go deep on next meeting !



# Referensi

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4. Waweru Mwaura, **End-to-End Web Testing with Cypress**, 2021
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# Thanks

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