

Component **Nesting**

Komponen bisa digunakan di dalam komponen lain

Component **Reusability**

Komponen bisa di-reuse dalam aplikasi

Component **Configuration**

Komponen bisa dikonfigurasi ketika di-create

Hands On



create-react-app user-card

Kosongkan src folder

buat file **index.js**

```
import React from 'react';
import ReactDOM from 'react-dom';

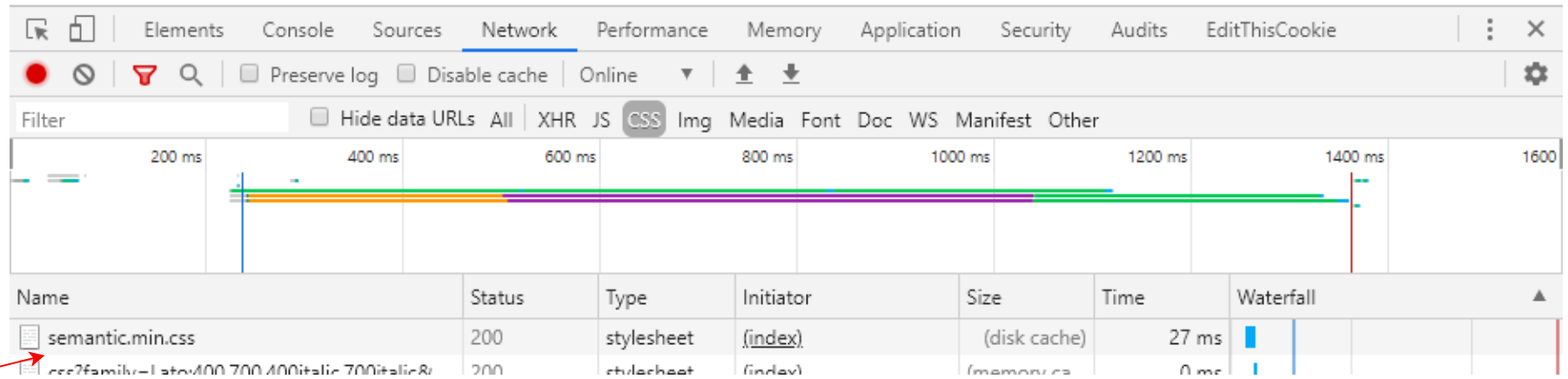
const App = () => {
  return (
    <div>Hello word</div>
  )
}

ReactDOM.render(<App />, document.querySelector('#root'));
```

pada folder **public**, file **index.html**, sisipkan tag <link/> di bagian <head>...</head>

link bootstrap 4 bisa diambil di <https://getbootstrap.com/docs/4.3/getting-started/download/>

Pastikan link stylesheet berhasil,
inspect > network > css



Berhasil didownload (status 200)

Update file src > index.js

```
const App = () => {
  return (
    <div className="container">
      <div className="card border-dark mb-3" style={{maxWidth: '25rem'}}>
        <div className="card-body text-dark">
          <img src={faker.image.avatar()} alt="avatar"
className="rounded float-left mr-2"/>
          <h5 className="card-title">Roy</h5>
          <p className="card-text">Jl. Merbabu 10</p>
          <p className="card-text">
            <small className="text-muted">Bergabung : 7 Apr 2010</small>
          </p>
        </div>
      </div>
    </div>
  );
};
```

```
npm install --save faker
```

Sample data yang bisa membantu development
Untuk detail <https://github.com/marak/Faker.js/>

```
Update file src > index.js
```

```
import React from 'react';
import ReactDOM from 'react-dom';
import faker from 'faker';

const App = () => {
  return (
    <div className="container">
      <div className="card border-dark mb-3" style={{maxWidth: '25rem'}}>
        <div className="card-body text-dark">
          <img src={faker.image.avatar()} alt="avatar" className="rounded float-left mr-2"/>
          <h5 className="card-title">Roy</h5>
          .
          .
          .
        </div>
      </div>
    </div>
  );
}
```

Membuat komponen yang bisa di-reuseable dan dikonfigurasi

Identifikasi JSX yang kira2 bisa duplikat

Pikirkan tujuan komponen ini, lalu berikan penamaan yang sesuai

Contoh :
PostingDetailComponent,
UserInfoCardComponent

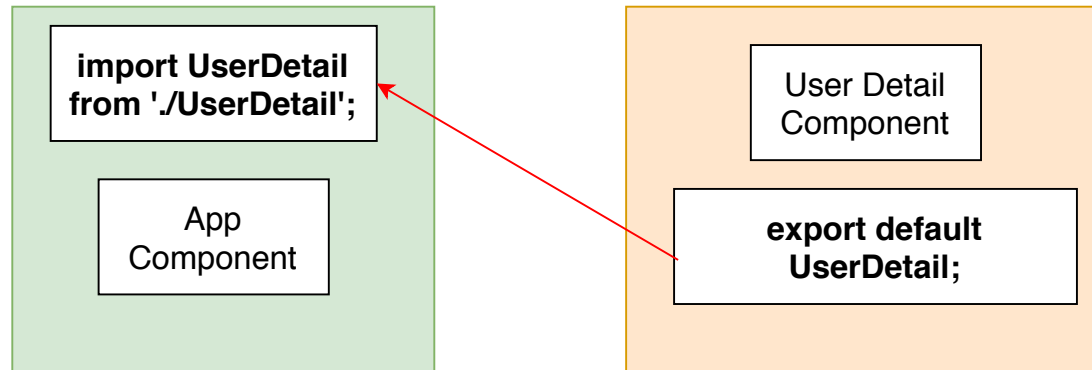
Buat file js baru untuk komponen ini, nama file sama dengan nama komponen

Buat komponen bisa dikonfigurasi dengan **React Props** system

Buat file baru src > UserDetails.js

```
import React from 'react';
import faker from 'faker';

const UserDetails = () => {
  return (
    <div className="card border-dark mb-3" style={{maxWidth: '25rem'}}>
      <div className="card-body text-dark">
        <img src={faker.image.avatar()} alt="avatar" class="rounded float-left mr-2"/>
        <h5 className="card-title">Roy</h5>
        <p className="card-text">Jl. Merbabu 10</p>
        <p class="card-text">
          <small class="text-muted">Bergabung : 7 Apr 2010</small>
        </p>
      </div>
    </div>
  );
};
export default UserDetails;
```

Update file src > index.js

```
import React from 'react';
import ReactDOM from 'react-dom';
import UserDetails from './UserDetail';

const App = () => {
  return (
    <div className="container">
      <UserDetail />
    </div>
  );
};

ReactDOM.render(<App />, document.querySelector('#root'));
```

Props

Passing data dari
komponen **parent** ke komponen **child**

Tujuannya untuk **mengkonfigurasi child** komponen

Ubah file src > index.js

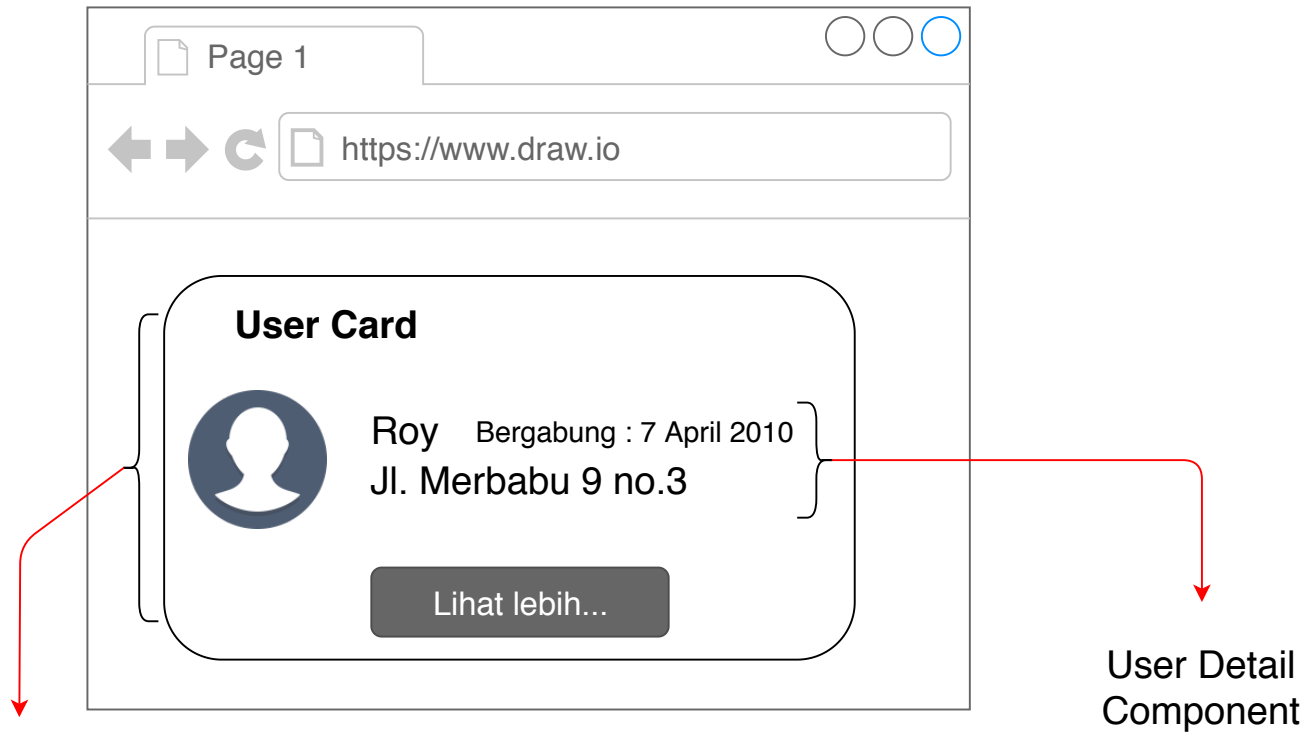
```
...
import faker from 'faker';
import UserDetails from './UserDetail';

const App = () => {
  return (
    <div className="container">
      <UserDetail
        nama="Roy"
        tanggalGabung="7 Apr 2010"
        alamat="Jl. Abc"
        avatar={faker.image.avatar()} />
      <UserDetail
        nama="Aron"
        tanggalGabung="17 jan 2009"
        alamat="Jl. Kucing"
        avatar={faker.image.avatar()} />
    </div>
  );
};
...
```

Update file src > UserDetails.js

```
import React from 'react';

const UserDetails = (props) => {
  console.log(props);
  return (
    <div className="card border-dark mb-3" style={{maxWidth: '25rem'}}>
      <div className="card-body text-dark">
        <img src={props.avatar} alt="avatar" class="rounded float-left mr-2"/>
        <h5 className="card-title">{props.nama}</h5>
        <p className="card-text">{props.alamat}</p>
        <p class="card-text">
          <small class="text-muted">Bergabung : {props.tanggalGabung}</small>
        </p>
      </div>
    </div>
  );
};
export default UserDetails;
```



Buat file baru src > UserCard.js

```
import React from 'react';

const UserCard = (props) => {
  return (
    <div className="card" style={{width : '30rem'}}>
      <div className="card-body">
        <h5 className="card-title">User Card</h5>
        {props.children}
        <a href="#" className="card-link">Lihat lebih...</a>
      </div>
    </div>
  )
};
export default UserCard ;
```

Ubah file src > index.js

```
...
import faker from 'faker';
import UserDetails from './UserDetail';
import UserCard from './UserCard';

const App = () => {
  return (
    <div className="container">
      <UserCard>
      <UserDetail
        nama="Roy"
        tanggalGabung="7 Apr 2010"
        alamat="Jl. Abc"
        avatar={faker.image.avatar()} />
      </UserCard>
      <UserCard>
      <UserDetail
        nama="Aron"
        tanggalGabung="17 jan 2009"
        alamat="Jl. Kucing"
        avatar={faker.image.avatar()} />
      </UserCard>
    </div>
  );
};
...
```