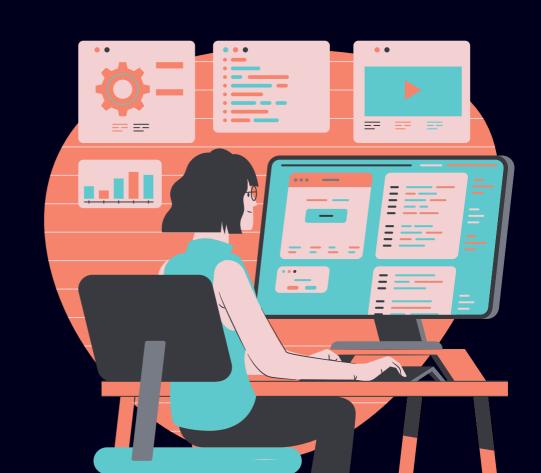# React JS

Source: Chai Aur Code

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Notes: Araiz Naqvi

For my connections and me :)

Part 7

Components and Props

So in order to begin firstly, we'll use Tailwind.
Hence, we will first follow its installation in VIte.

```
npm install -D tailwindcss postcss autoprefixernpx
tailwindcss init -p
```

What are Components?

Sometimes we need to use certain sections like say
navigation bars, again and again. So will you keep
writing or pasting it again and again? Not me ;)
Hence,
this is where Components come in.
Components are parts that can be used repeatedly,
making it easy to reuse code and make everything
more readable and easy to understand.
It is created as follows:

```
import React from 'react'

function Form(){
 console.log(username);
 return(
     <h1>Name: </h1>
 )
}
```

Next, we include it in the app.jsx
Firstly, include the Form.jsx as follows:

```
import Form from './Components/Form'
```

So, now we have the Form function and it can be used as much as you'd like as follows:

```
return (
 <>
 <h1 className='bg-green-400 text-black p-4
rounded-xl'>Tailwind Test</h1>
 <Form />
 <Form /> //As many times as you'd like
 </>
 )
```

However, if you notice now that there is no way we can call the function for different inputs. So how is this to be solved?
This is where props come in.

What are Props?

Props in React are like the short to 'Properties'.
They enable us to pass values just like in cpp or java
we can send in parameters. So How is this done?
As follows:

```
import React from 'react'

function Form({username}){
 console.log(username);
 return(
 <h1>Name: {username}</h1>  ) }
```

In the above, we pass by dereferencing the
username prop within '{}' and use it similarly.
Next, the way we send it in app.jsx is as follows:

```
<Form username="araiznaqvi"/>
```

Thanks