

Assignment -2 : React.js Components Creation

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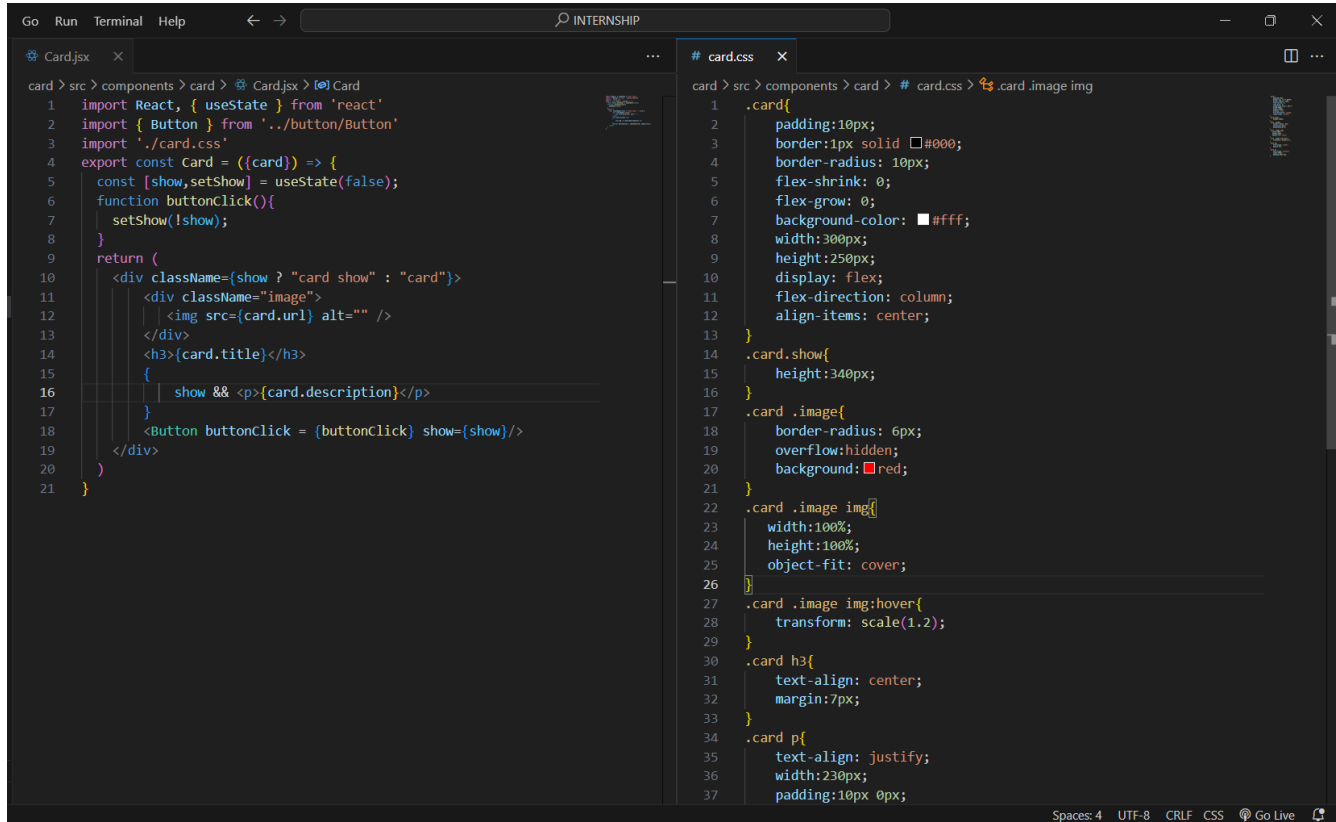
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Source Code :

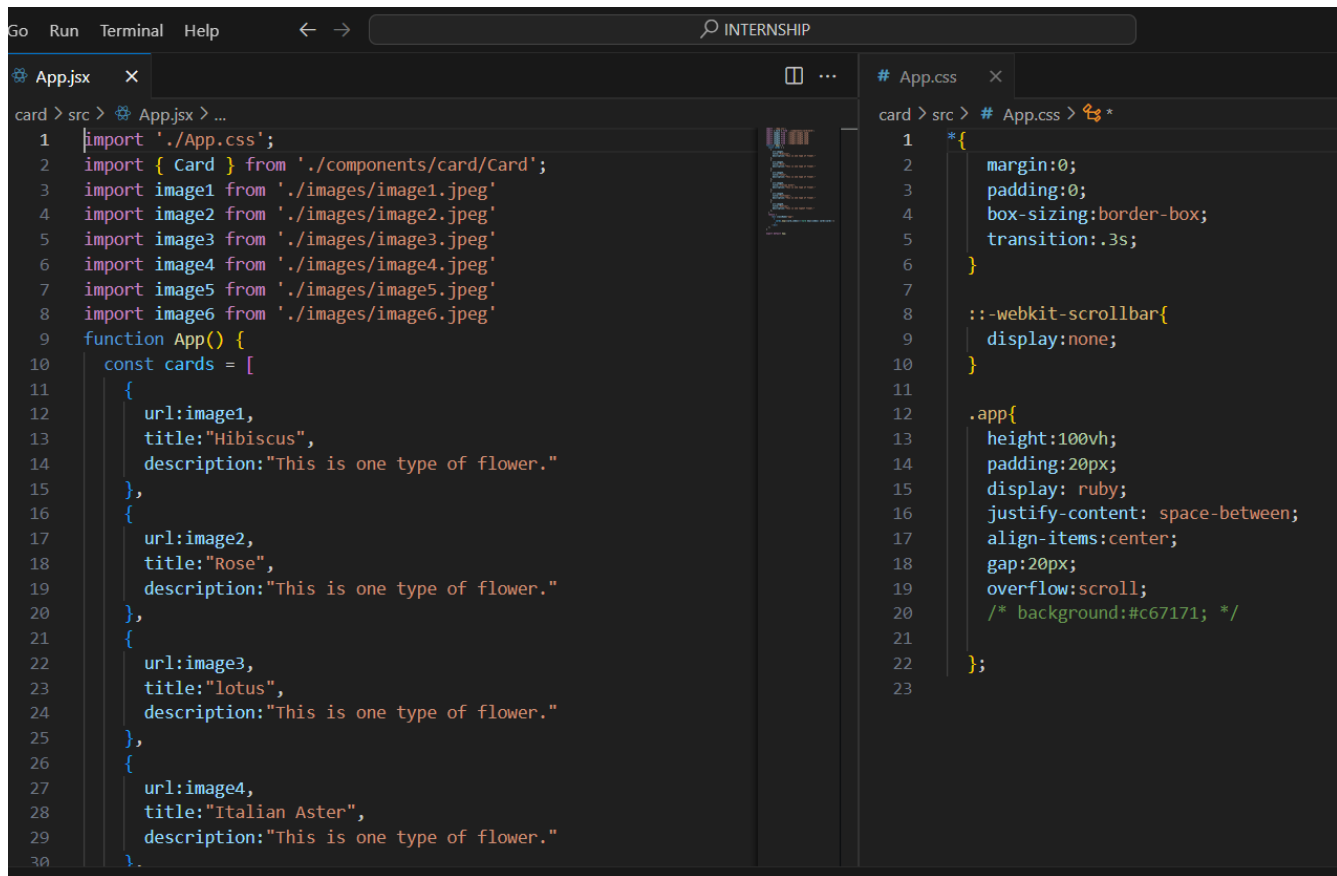
- Card Component



```
card > src > components > card > Card.jsx > @ Card
1 import React, { useState } from 'react'
2 import { Button } from '../button/Button'
3 import './card.css'
4 export const Card = ({card}) => {
5   const [show, setShow] = useState(false);
6   function handleClick(){
7     setShow(!show);
8   }
9   return (
10    <div className={show ? "card show" : "card"}>
11      <div className="image">
12        <img src={card.url} alt="" />
13      </div>
14      <h3>{card.title}</h3>
15      {
16        show && <p>{card.description}</p>
17      }
18      <Button handleClick = {handleClick} show={show}/>
19    </div>
20  )
21 }

# card.css
1 .card{
2   padding:10px;
3   border:1px solid #000;
4   border-radius: 10px;
5   flex-shrink: 0;
6   flex-grow: 0;
7   background-color: #fff;
8   width:300px;
9   height:250px;
10  display: flex;
11  flex-direction: column;
12  align-items: center;
13 }
14 .card.show{
15   height:340px;
16 }
17 .card .image{
18   border-radius: 6px;
19   overflow:hidden;
20   background: red;
21 }
22 .card .image img{
23   width:100%;
24   height:100%;
25   object-fit: cover;
26 }
27 .card .image img:hover{
28   transform: scale(1.2);
29 }
30 .card h3{
31   text-align: center;
32   margin:7px;
33 }
34 .card p{
35   text-align: justify;
36   width:230px;
37   padding:10px 0px;
```

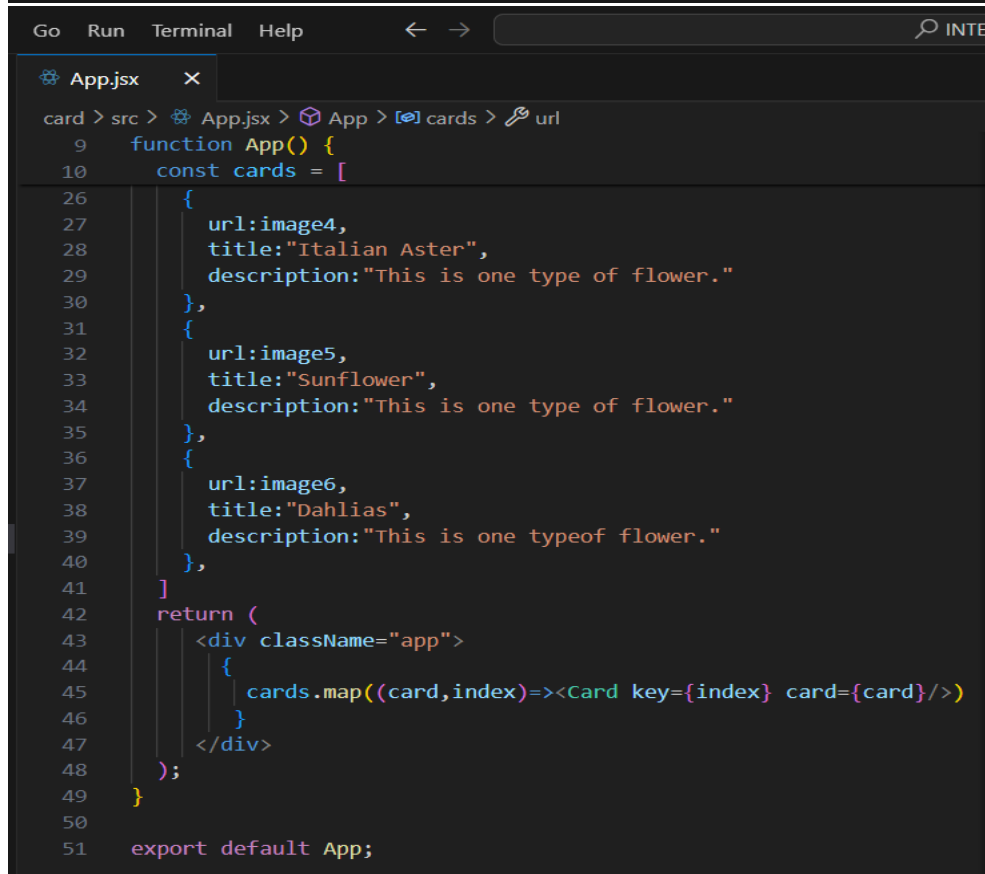
• App Component:



The screenshot shows a code editor with two files open: App.jsx and App.css. The App.jsx file contains imports for the App.css file and six image files from the ./images directory. It also defines an App function that returns a list of card objects. The App.css file contains styles for the app container, including margin, padding, box-sizing, transition, and a background color.

```
card > src > App.jsx > ...
1  import './App.css';
2  import { Card } from './components/card/Card';
3  import image1 from './images/image1.jpeg';
4  import image2 from './images/image2.jpeg';
5  import image3 from './images/image3.jpeg';
6  import image4 from './images/image4.jpeg';
7  import image5 from './images/image5.jpeg';
8  import image6 from './images/image6.jpeg';
9  function App() {
10   const cards = [
11     {
12       url:image1,
13       title:"Hibiscus",
14       description:"This is one type of flower."
15     },
16     {
17       url:image2,
18       title:"Rose",
19       description:"This is one type of flower."
20     },
21     {
22       url:image3,
23       title:"lotus",
24       description:"This is one type of flower."
25     },
26     {
27       url:image4,
28       title:"Italian Aster",
29       description:"This is one type of flower."
30     }
31   ];
32 }
```

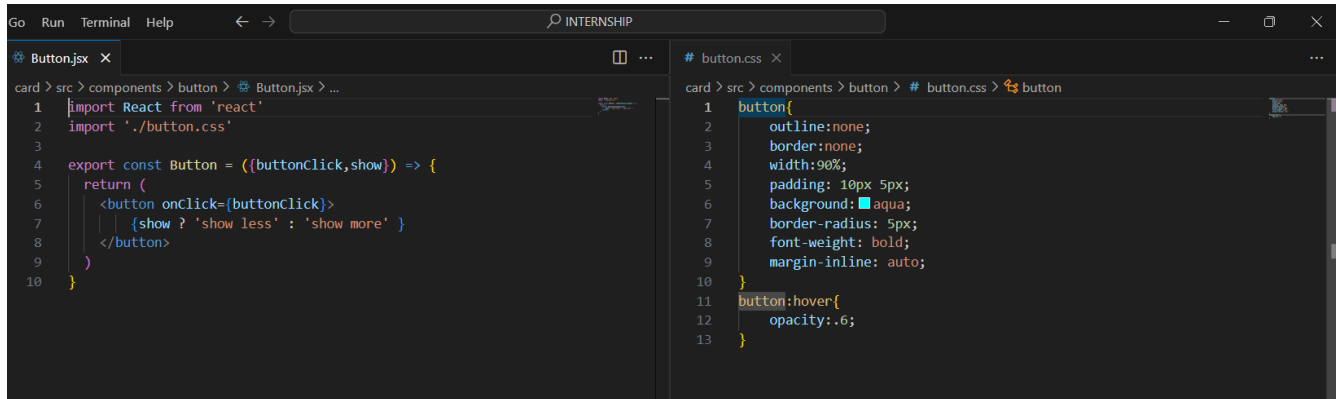
```
card > src > # App.css > *
1  *{
2    margin:0;
3    padding:0;
4    box-sizing:border-box;
5    transition:.3s;
6  }
7
8  ::-webkit-scrollbar{
9    display:none;
10 }
11
12 .app{
13   height:100vh;
14   padding:20px;
15   display: ruby;
16   justify-content: space-between;
17   align-items:center;
18   gap:20px;
19   overflow:scroll;
20   /* background:#c67171; */
21 }
22
23
```



The screenshot shows a code editor with the App.jsx file open. The file contains the App function, which returns a list of card objects and a JSX element. The JSX element is a div with className="app" containing a map of the cards array. The App function is exported as the default export.

```
card > src > App.jsx > App > cards > url
9  function App() {
10   const cards = [
26     {
27       url:image4,
28       title:"Italian Aster",
29       description:"This is one type of flower."
30     },
31     {
32       url:image5,
33       title:"Sunflower",
34       description:"This is one type of flower."
35     },
36     {
37       url:image6,
38       title:"Dahlias",
39       description:"This is one type of flower."
40     }
41   ];
42   return (
43     <div className="app">
44       {
45         cards.map((card,index)=><Card key={index} card={card}/>)
46       }
47     </div>
48   );
49 }
50
51 export default App;
```

Button Component :



The screenshot shows a code editor with two files open: Button.js and button.css. The Button.js file contains a React component definition for a button. The button.css file contains CSS rules for the button, including a default style and a hover effect.

```
Button.js
1 import React from 'react'
2 import './button.css'
3
4 export const Button = ({buttonClick,show}) => {
5   return (
6     <button onClick={buttonClick}>
7       {show ? 'show less' : 'show more' }
8     </button>
9   )
10 }

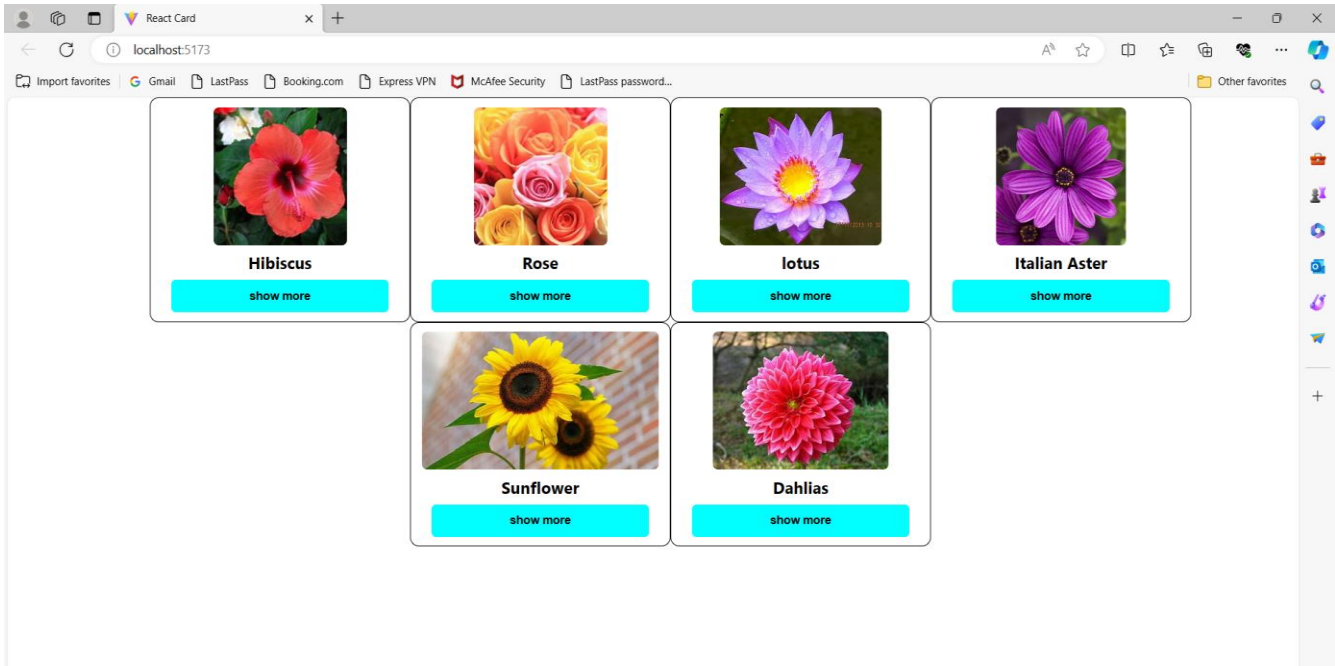
button.css
1 button{
2   outline:none;
3   border:none;
4   width:90%;
5   padding: 10px 5px;
6   background: aqua;
7   border-radius: 5px;
8   font-weight: bold;
9   margin-inline: auto;
10 }
11 button:hover{
12   opacity:.6;
13 }
```

Breif Description About The Approach :

Initially took an array of objects like shown in App.jsx. Later Passed this card array to child (card component) of App component by using the properties. After getting data as argument like {card} in card component i used one state [show, setShow] to get extra info as description. But when we click the button then show becomes true by assigning setShow (!show) . In this way, I tried to create these components in react.js. Finally, this is the brief description about the approach which I followed in React.js components creation.

Output :

Before Button Clicked :



After Button Clicked :

