

React.js Component Creation

Name : YALAMANDALA NAGARJUNA

Email : arjunachinna616gmail.com

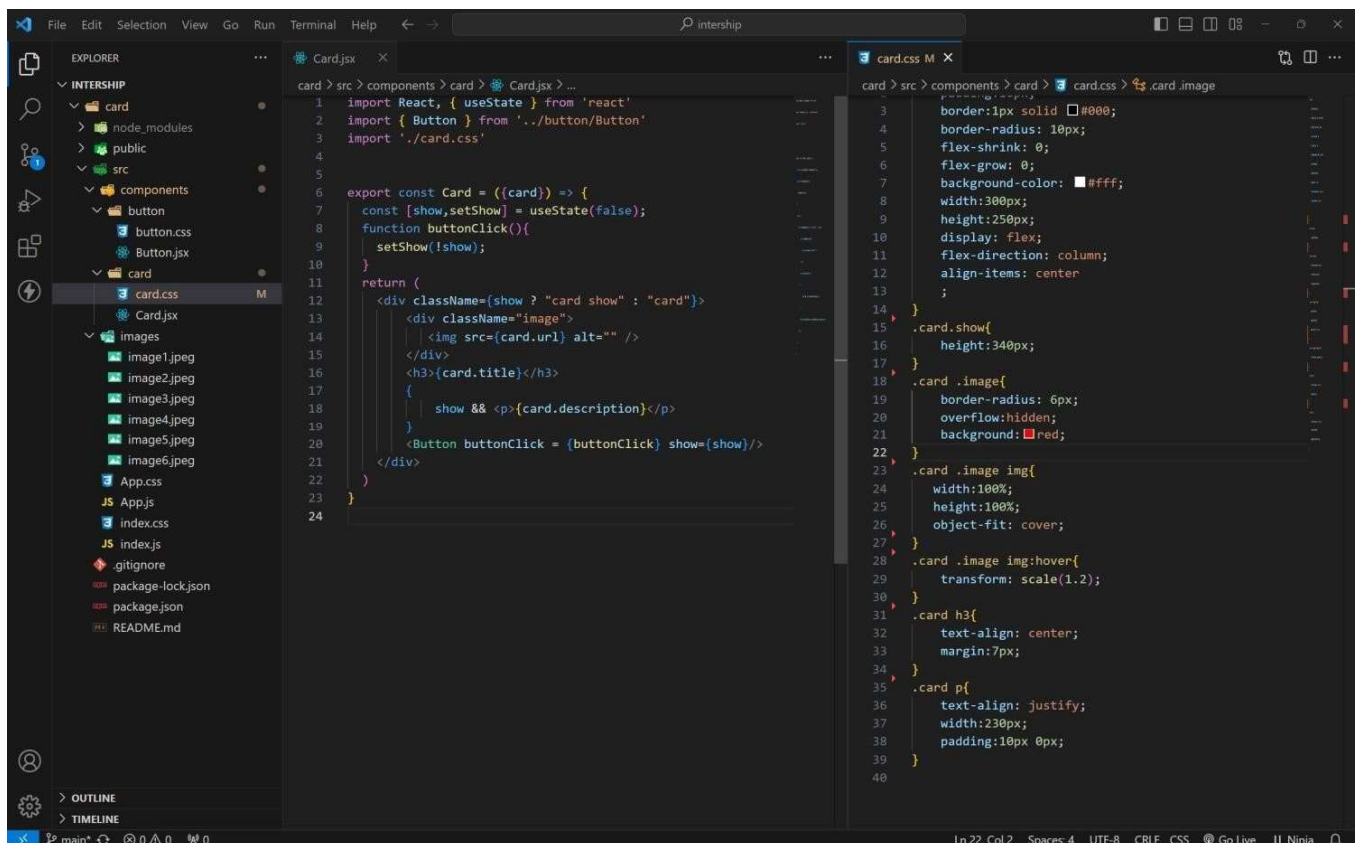
Phone no : 6304550803

Roll NO : 20HU1A0456

College Name : Chebrolu engineering college

Source Code:

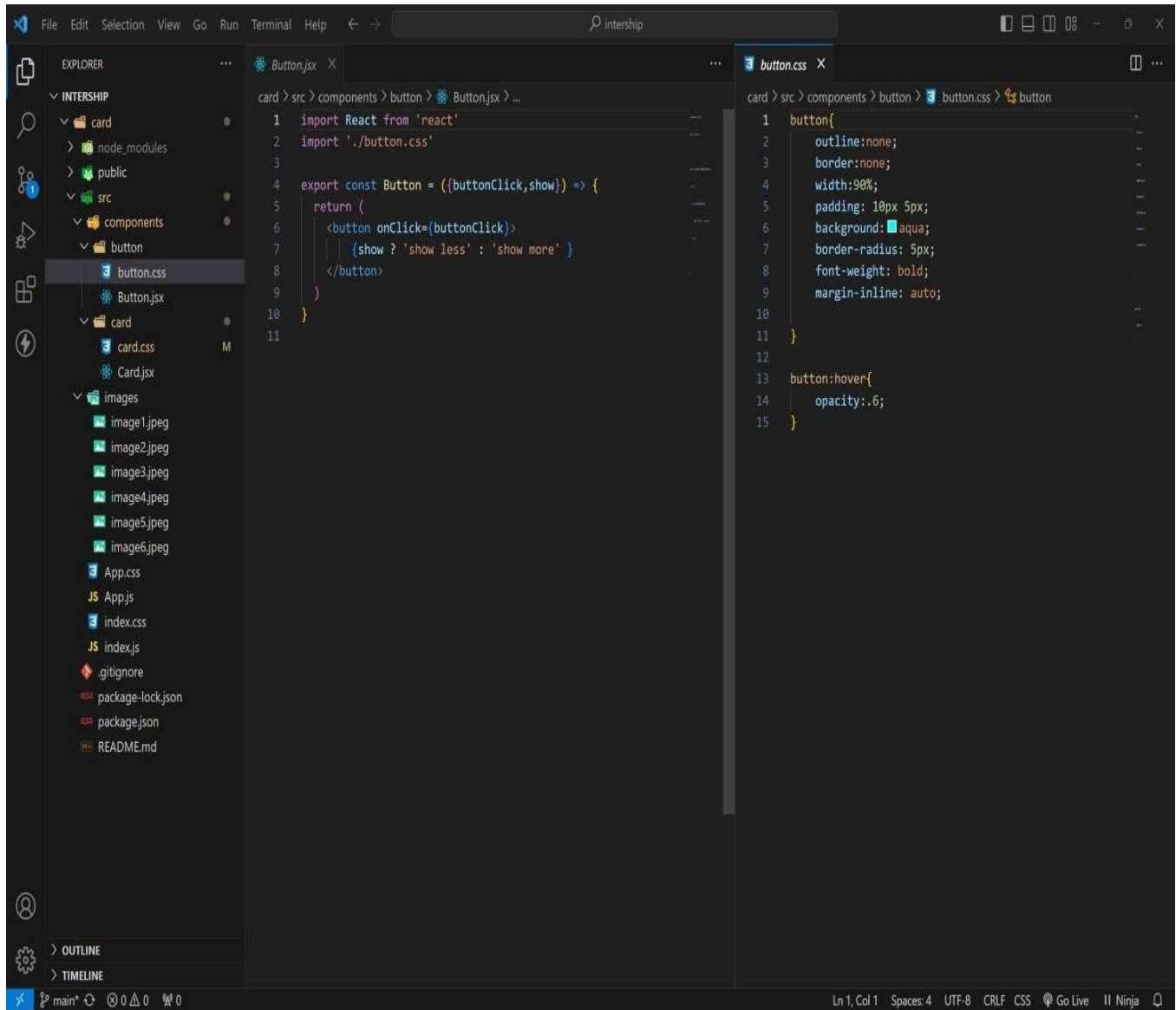
CARD COMPONENT:



```
1 import React, { useState } from 'react'
2 import { Button } from '../button/Button'
3 import './card.css'
4
5
6 export const Card = ({card}) => {
7   const [show, setShow] = useState(false);
8   function handleClick() {
9     setShow(!show);
10  }
11  return (
12    <div className={show ? "card show" : "card"}>
13      <div className="image">
14        <img src={card.url} alt="" />
15      </div>
16      <h3>{card.title}</h3>
17      {
18        show && <p>{card.description}</p>
19      }
20      <Button handleClick={handleClick} show={show}/>
21    </div>
22  )
23 }
24
```

```
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
15 .card.show{
16   height:340px;
17 }
18 .card .image{
19   border-radius: 6px;
20   overflow:hidden;
21   background: red;
22 }
23 .card .image img{
24   width:100%;
25   height:100%;
26   object-fit: cover;
27 }
28 .card .image img:hover{
29   transform: scale(1.2);
30 }
31 .card h3{
32   text-align: center;
33   margin:7px;
34 }
35 .card p{
36   text-align: justify;
37   width:230px;
38   padding:10px 0px;
39 }
40
```

BUTTON COMPONENT:



APP COMPONENT:

The image displays a VS Code editor window with the following components:

- EXPLORER:** Shows the project structure. The `src` directory contains `components` (with `button` and `card` subdirectories), `images` (with `image1.jpeg` through `image6.jpeg`), `App.css`, `App.js`, `index.css`, and `index.js`.
- Editor:** Shows the `App.js` file. The code defines an `App` function that imports `Card` and image assets, and returns a JSX element using `cards.map`. The `App.css` file shows styling for the `.app` class.
- Terminal:** Shows the output of the development build, including the message "Compiled successfully!" and the local network address `http://localhost:3000`.

```
card > src > JS App.js > ...
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:"Audi R8",
14       description:"The definition of a supercar describes an expensive car that's flashy,"
15     },
16     {
17       url:image2,
18       title:"Maserati MC20",
19       description:"The definition of a supercar describes an expensive car that's flashy"
20     },
21     {
22       url:image3,
23       title:"Porsche 911 GT3 RS",
24       description:"The definition of a supercar describes an expensive car that's flashy"
25     },
26     {
27       url:image4,
28       title:"Lamborghini Huracan Tecnica",
29       description:"The definition of a supercar describes an expensive car that's flashy"
30     },
31     {
32       url:image5,
33       title:"Rimac Nevera",
34       description:"The definition of a supercar describes an expensive car that's flashy"
35     },
36     {
37       url:image6,
38       title:"Ferrari F9",
39       description:"The definition of a supercar describes an expensive car that's flashy"
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 export default App;
```

```
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: flex;
16   justify-content: space-between;
17   align-items:center;
18   gap:20px;
19   overflow:scroll;
20   background: #000;
21 }
```

Compiled successfully!

You can now view card in the browser.

Local: http://localhost:3000
On Your Network: http://192.168.1.10:3000

Note that the development build is not optimized.
To create a production build, use `npm run build`.

webpack compiled successfully

Approach:

1 . initially taking an array of objects like below

```
const cards = [  
  {  
    url:image1,  
    title:"Audi R8",  
    description:"The definition of a supercar describes an expensive car that's flashy,"  
  },  
  {  
    url:image2,  
    title:"Maserati MC20",  
    description:"The definition of a supercar describes an expensive car that's flashy"  
  },  
  {  
    url:image3,  
    title:"Porsche 911 GT3 RS",  
    description:"The definition of a supercar describes an expensive car that's flashy"  
  },  
  {  
    url:image4,  
    title:"Lamborghini Huracan Tecnica",  
    description:"The definition of a supercar describes an expensive car that's flashy"  
  },  
  {  
    url:image5,  
    title:"Rimac Nevera",  
    description:"The definition of a supercar describes an expensive car that's flashy"  
  },  
  {  
    url:image6,  
    title:"ferrari F9",  
    description:"The definition of a supercar describes an expensive car that's flashy"  
  },  
]
```

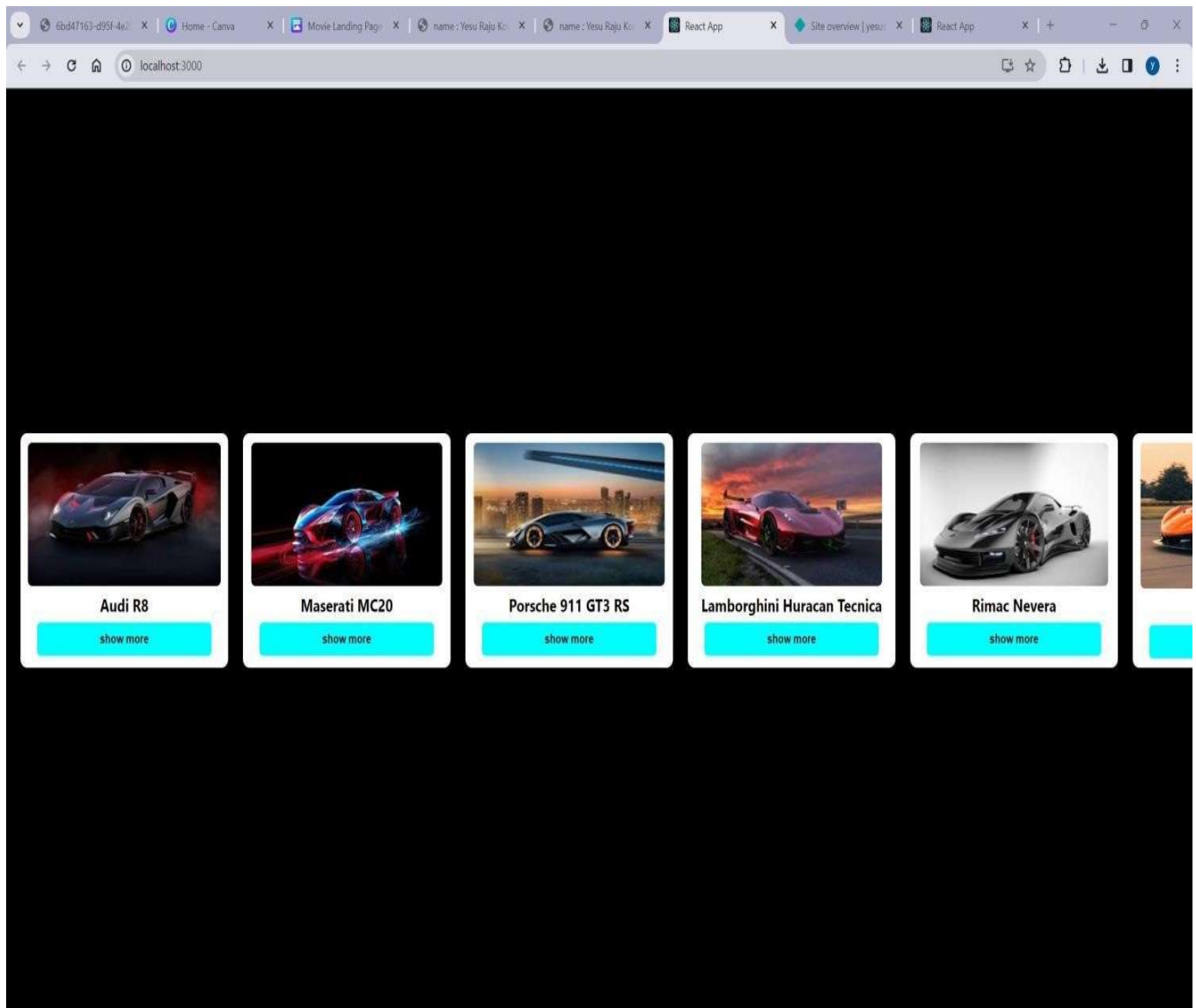
2 . Passing this card array to child (card component) of App component by using props;

3 . getting data as argument like {card} in card component.


4 . in card component i use one state [show, set Show] to get extra info as description.

5 . When we click the button then show becomes true by assigning set Show (! show).

OUTPUT:




AFTER BUTTON CLICKS:



Audi R8


The definition of a supercar describes an expensive car that's flashy.

show less



Maserati MC20


show more



Porsche 911 GT3 RS


The definition of a supercar describes an expensive car that's flashy.

show less



Lamborghini Huracan Tecnica


show more




Rimac Nevera

The definition of a supercar describes an expensive car that's flashy.

show less




The definition of a supercar describes an expensive car that's flashy.



Maserati MC20

The definition of a supercar describes an expensive car that's flashy.


show less



Porsche 911 GT3 RS

The definition of a supercar describes an expensive car that's flashy.


show less



Lamborghini Huracan Tecnica

The definition of a supercar describes an expensive car that's flashy.


show less



Rimac Nevera

The definition of a supercar describes an expensive car that's flashy.

show less



ferrari F9

The definition of a supercar describes an expensive car that's flashy.

show less