

React.js Component Creation

Name : VUCHA VAMSI KRISHNA

Email : vuchavamsi@gmail.com

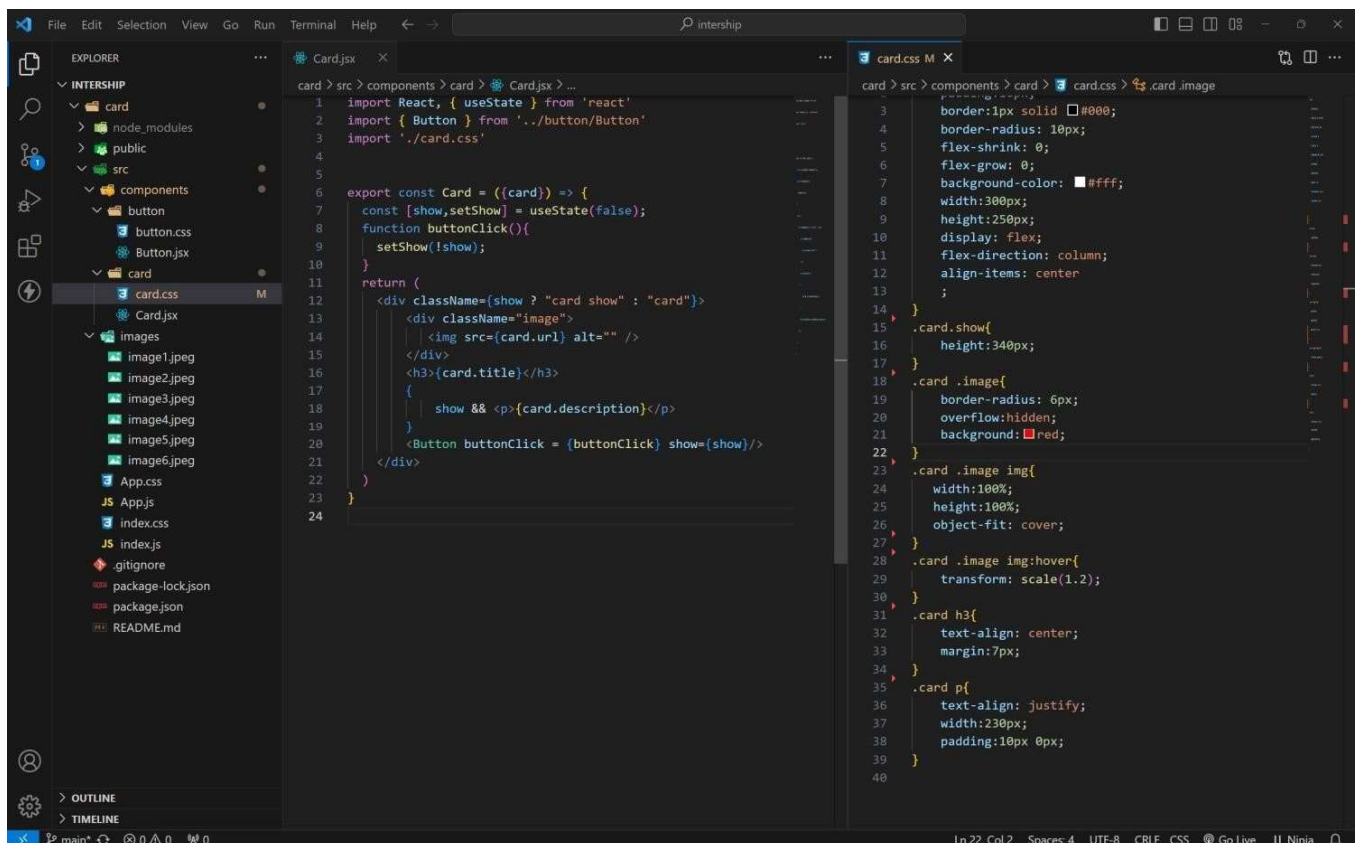
Phone no : 7075384483

Roll NO : 20HU1A0453

College Name : Chebrolu engineering college

Source Code:

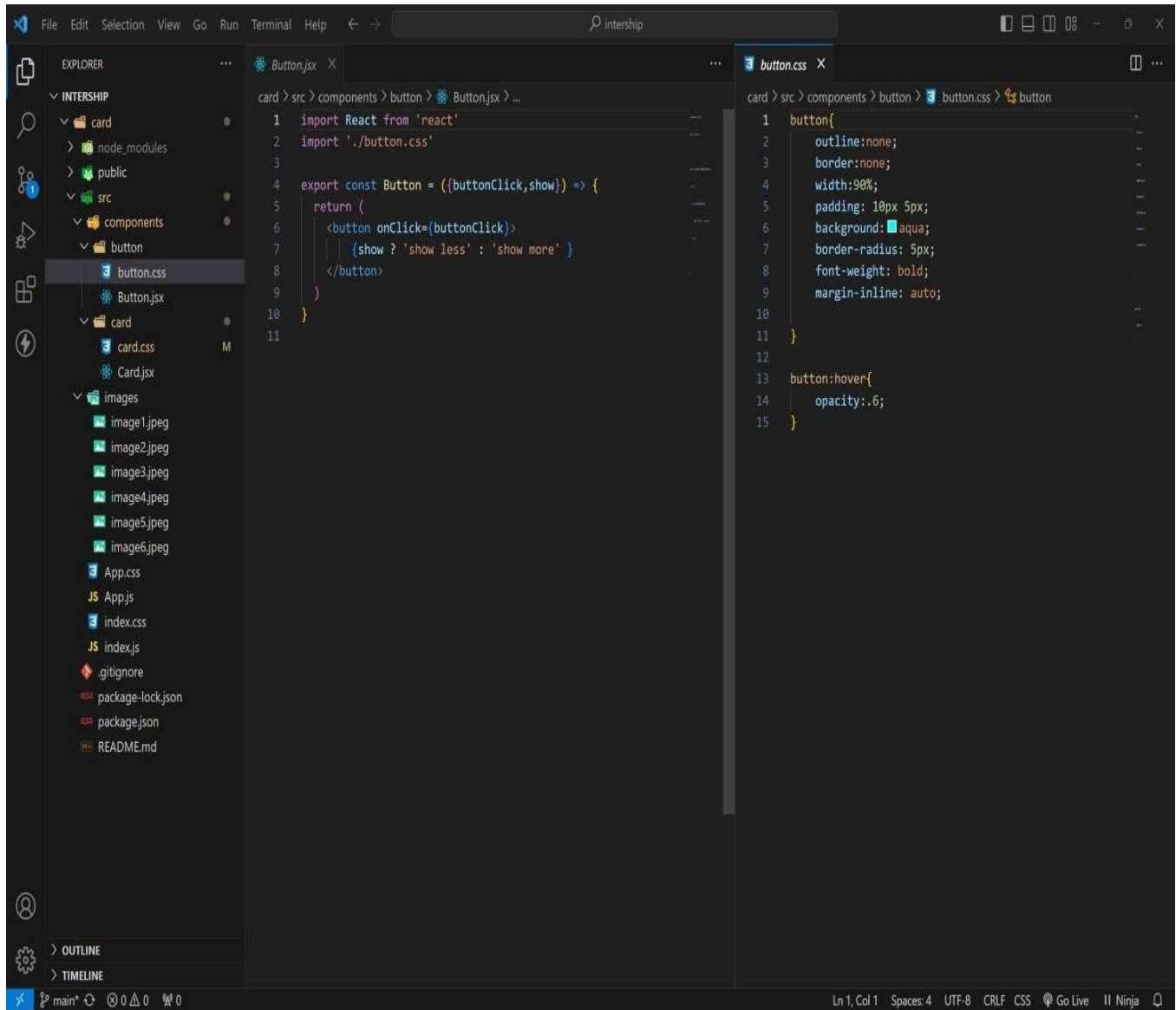
CARD COMPONENT:



```
card > src > components > card > Card.jsx > ...
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
```

```
card > src > components > card > card.css > card_image
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:300px;
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 Visual Studio Code editor window with a project named "intership". The Explorer sidebar on the left shows the project structure:

- INTERSHIP
 - card
 - node_modules
 - public
 - src
 - components
 - button
 - button.css
 - Button.jsx
 - card
 - card.css
 - Card.jsx
 - images
 - image1.jpeg
 - image2.jpeg
 - image3.jpeg
 - image4.jpeg
 - image5.jpeg
 - image6.jpeg
 - App.css
 - JS App.js
 - index.css
 - JS index.js
 - .gitignore
 - package-lock.json
 - package.json
 - README.md

The Editor window shows the `App.js` file with the following code:

```
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
10 function App() {
11   const cards = [
12     {
13       url:image1,
14       title:"Audi R8",
15       description:"The definition of a supercar describes an expensive car that's flashy,"
16     },
17     {
18       url:image2,
19       title:"Maserati MC20",
20       description:"The definition of a supercar describes an expensive car that's flashy"
21     },
22     {
23       url:image3,
24       title:"Porsche 911 GT3 RS",
25       description:"The definition of a supercar describes an expensive car that's flashy"
26     },
27     {
28       url:image4,
29       title:"Lamborghini Huracan Tecnica",
30       description:"The definition of a supercar describes an expensive car that's flashy"
31     },
32     {
33       url:image5,
34       title:"Rimac Nevera",
35       description:"The definition of a supercar describes an expensive car that's flashy"
36     },
37     {
38       url:image6,
39       title:"Ferrari F9",
40       description:"The definition of a supercar describes an expensive car that's flashy"
41     }
42   ];
43
44   return (
45     <div className="app">
46       {
47         cards.map((card,index)=><Card key={index} card={card}/>)
48       }
49     </div>
50   );
51 }
52 export default App;
```

The `App.css` file shows the following 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 }
```

The Terminal window shows the following output:

```
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"  
  },  
]
```

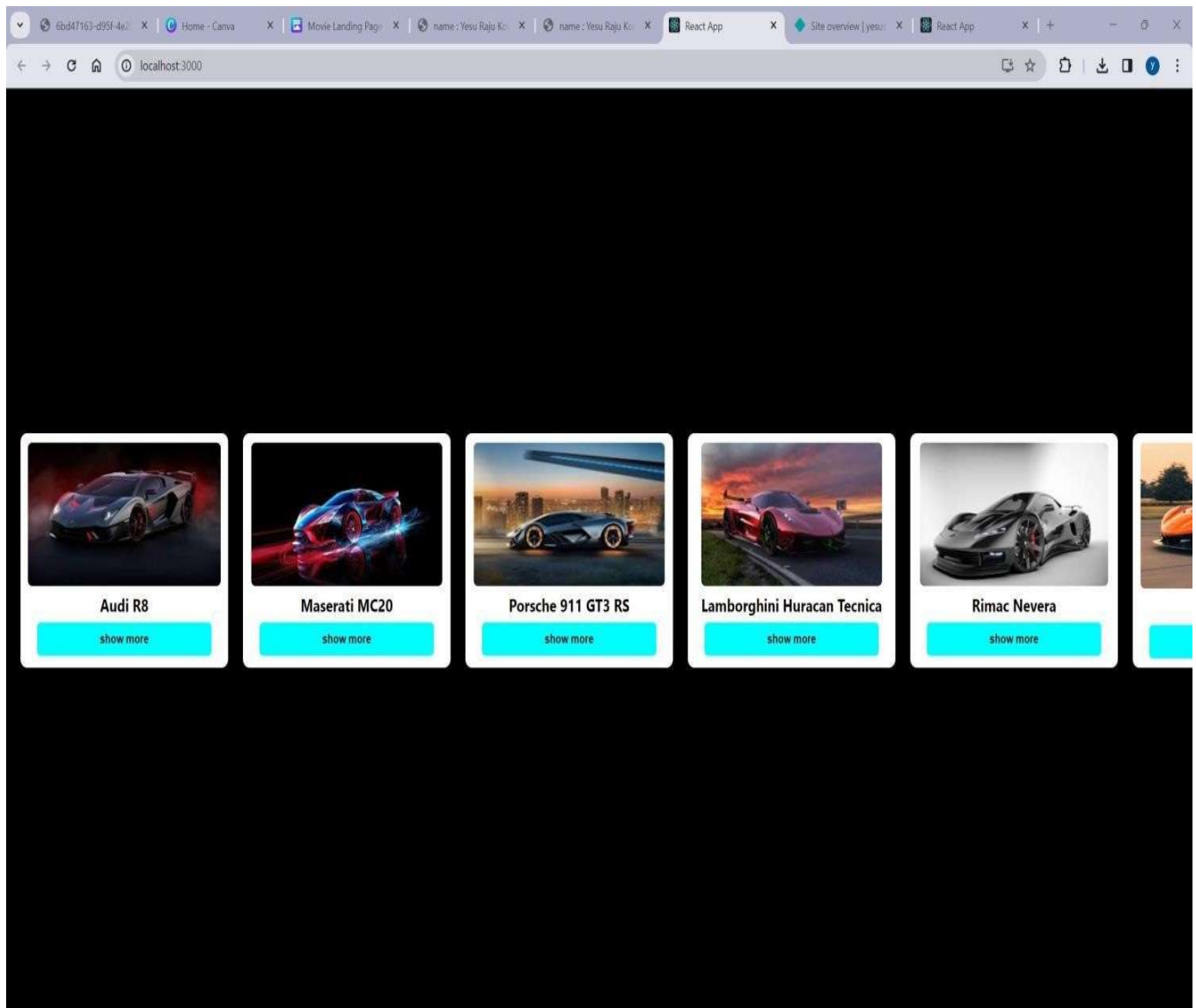
2 . Passing this card array to child (card component) of App component by using props;

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