

IT & Computer Science

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Section: SE (GREEN)

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Lab 10

Introduction to React

Task: A small dashboard that shows:

- A list of student profile cards
- Each card displays name, age, course, and a profile image.
- Styled using both custom CSS and React Bootstrap.
- Uses props to pass student data

Code: StdCard.jsx

```
import React from 'react';
import { Button, Card, CardBody, CardFooter, CardHeader, CardImg } from 'react-bootstrap';
import 'bootstrap/dist/css/bootstrap.min.css';
import '../components/Lab10Task.css';
import imgSrc from '../assets/Lab03hm.jpg';

function Lab10Task() {
  return (
    <div className='stdCard'>
      <Card className='card'>
        <Card.Img variant="top" src={imgSrc} alt="Student" />
        <CardHeader>Student 01</CardHeader>
        <CardBody>
          <Card.Text>Abzar Khan</Card.Text>
          <Card.Text>21</Card.Text>
          <Card.Text>Web Engineering</Card.Text>
        </CardBody>
        <Button variant='danger'>Remove Card</Button>
      </Card>

      <Card className='card'>
        <Card.Img variant="top" src={imgSrc} alt="Student" />
        <CardHeader>Student 02</CardHeader>
        <CardBody>
          <Card.Text>Abzar Khan</Card.Text>
          <Card.Text>21</Card.Text>
          <Card.Text>Web Engineering</Card.Text>
        </CardBody>
        <Button variant='danger'>Remove Card</Button>
      </Card>

      <Card className='card'>
        <Card.Img variant="top" src={imgSrc} alt="Student" />
        <CardHeader>Student 03</CardHeader>
        <CardBody>
          <Card.Text>Abzar Khan</Card.Text>
          <Card.Text>21</Card.Text>
        </CardBody>
      </Card>
    </div>
  );
}
```

```
      <Card.Text>Web Engineering</Card.Text>
    </CardBody>
    <Button variant='danger'>Remove Card</Button>
  </Card>

  <Card className='card'>
    <Card.Img variant="top" src={imgSrc} alt="Student" />
    <CardHeader>Student 04</CardHeader>
    <CardBody>
      <Card.Text>Abzar Khan</Card.Text>
      <Card.Text>21</Card.Text>
      <Card.Text>Web Engineering</Card.Text>
    </CardBody>
    <Button variant='danger'>Remove Card</Button>
  </Card>

  <Card className='card'>
    <Card.Img variant="top" src={imgSrc} alt="Student" />
    <CardHeader>Student 05</CardHeader>
    <CardBody>
      <Card.Text>Abzar Khan</Card.Text>
      <Card.Text>21</Card.Text>
      <Card.Text>Web Engineering</Card.Text>
    </CardBody>
    <Button variant='danger'>Remove Card</Button>
  </Card>

  </div>
);
}

export default Lab10Task;
```


StdCardStyle.css:

```
.stdCard {
  display: flex;
  gap: 15px;
  height: auto;
  margin: 10px;
}

.card {
  width: 40%;
}

.card-img-top {
  width: 100%;
  height: auto;
  object-fit: cover;
  border-top-left-radius: 0.5rem;
  border-top-right-radius: 0.5rem;
}
```

Wellcome To lab 10




Student 01

Abzar Khan

21

Web Engineering

Remove Card




Student 02

Abzar Khan

21

Web Engineering

Remove Card




Student 03

Abzar Khan

21

Web Engineering

Remove Card




Student 04

Abzar Khan

21

Web Engineering

Remove Card



Student 05

Abzar Khan

21

Web Engineering

Rem ove Card

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Explanation:

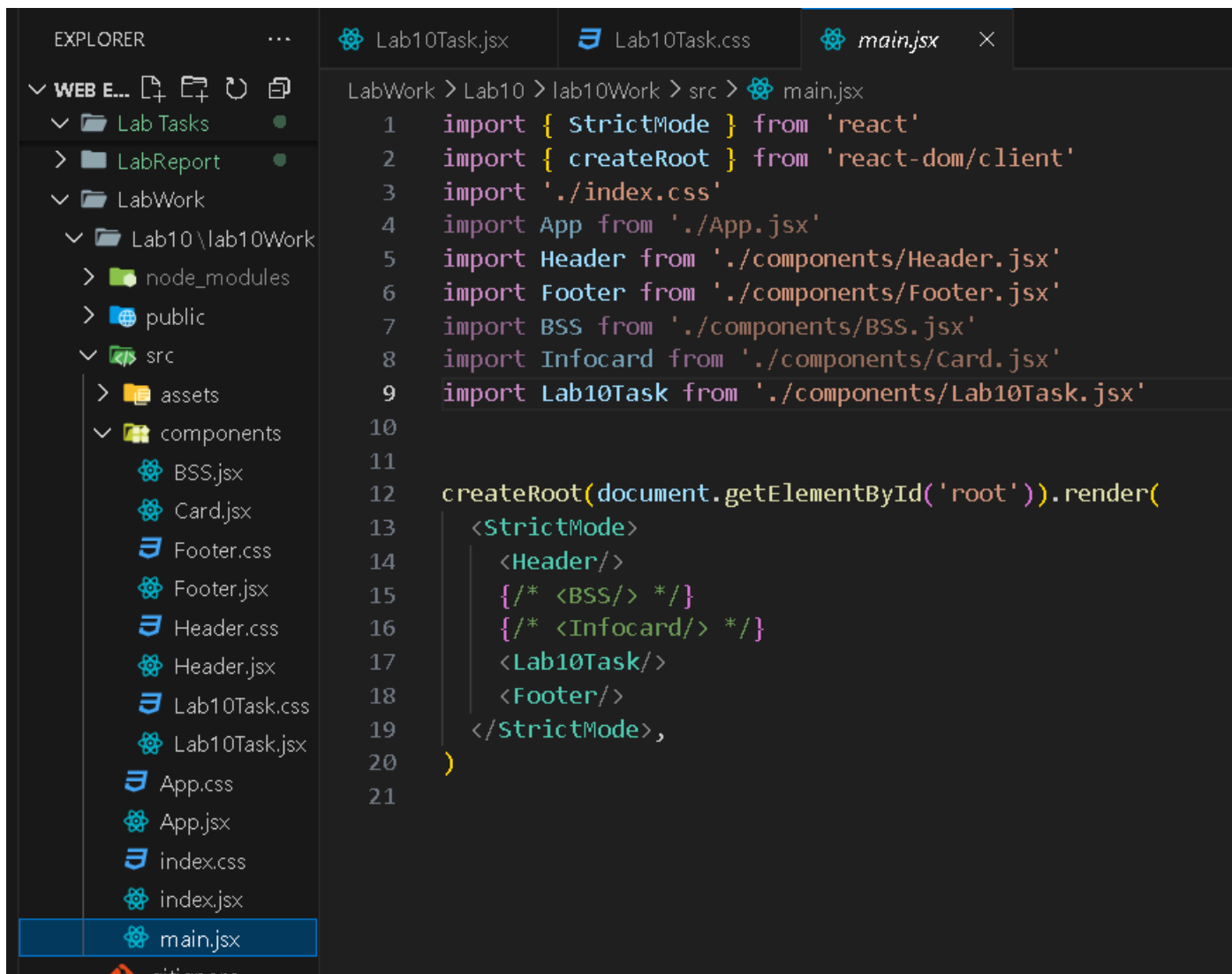
In this Lab we start basic of React first we create and install react project i personally work on react vite because of easy creation and installation

First, i create react App through **npm create vite <App Name>**

And then some write some react practice code.

Here in this task, there was creating student card having img, student name, age and course title i also add a built-in Button from bootstrap to delete a card.

The code is written inside the components folder and then called to the main.jsx file outside for rendering.



The screenshot shows the VS Code editor interface. On the left, the Explorer sidebar displays the project structure:

- WEB E...
 - Lab Tasks
 - LabReport
 - LabWork
 - Lab10\lab10Work
 - node_modules
 - public
 - src
 - assets
 - components
 - BSS.jsx
 - Card.jsx
 - Footer.css
 - Footer.jsx
 - Header.css
 - Header.jsx
 - Lab10Task.css
 - Lab10Task.jsx
 - App.css
 - App.jsx
 - index.css
 - index.jsx
 - main.jsx

The main editor area shows the content of `main.jsx` in the `src` directory:

```
1  import { StrictMode } from 'react'
2  import { createRoot } from 'react-dom/client'
3  import './index.css'
4  import App from './App.jsx'
5  import Header from './components/Header.jsx'
6  import Footer from './components/Footer.jsx'
7  import BSS from './components/BSS.jsx'
8  import Infocard from './components/Card.jsx'
9  import Lab10Task from './components/Lab10Task.jsx'
10
11
12  createRoot(document.getElementById('root')).render(
13    <StrictMode>
14      <Header/>
15      { /* <BSS/> */ }
16      { /* <Infocard/> */ }
17      <Lab10Task/>
18      <Footer/>
19    </StrictMode>,
20  )
21
```