

09-01-2024

ReactJs

MERN

M - MongoDB

Sql No sql

Mysql MongoDB , firebase

Oracle

E - Express.js backend

R - React.Js (FrontEnd)

N - NodeJs (BackEnd)

React.js

React.js is a library of JavaScript. It is developed by Facebook. It was developed by Jordan Walke 2013.

Feature of react.js

1. React.js is a single page application.
2. High security.
3. Component based.
4. Pre-build structure.

How to use Reactjs

1. Install node.js <https://nodejs.org/en/download/>
2. How to check node js install or not (open cmd and type node -v)
3. Install reactjs globally (open cmd and type npm i / install -g create-react-app)
4. Install reactjs project (npx create-react-app appName)
Note no any space and capital letter in app name but you can use underscore or hyphen

npx create-react-app first

Meeting id

<https://meet.goto.com/699868909>

How to start your project.

npm start

Components

1. Functional component

a. Normal function

Syntax:

```
function funName(){  
    Code here –  
}
```

1. Function declaration (FunName)

2. Function definition

3. Function calling

Note first letter of the function will always be capital letter.

```
import React from 'react';  
import './App.css';  
  
function App() {  
    return (  
        <div className="App">  
            <First />  
        </div>  
    );  
}  
  
function First(){  
    return(  
        <div>  
            <h1>Hello ReactJs</h1>  
        </div>  
    )  
}  
  
export default App;
```

Create 10 diff components and print messages.

Personal information

Create a table and print 10 student records.

Create a form

Create list tag and print rules and regulations

Create marquee tags and print notices.

b. Arrow function

Syntax:

```
const funName = () =>{
```

Code here—

```
}
```

2. Class component

```
Function abc(){
```

```
Function cde(){
```

```
}
```

```
}
```

```
Class a {
```

```
Function a(){
```

```
}
```

```
Function a(){
```

```
}
```

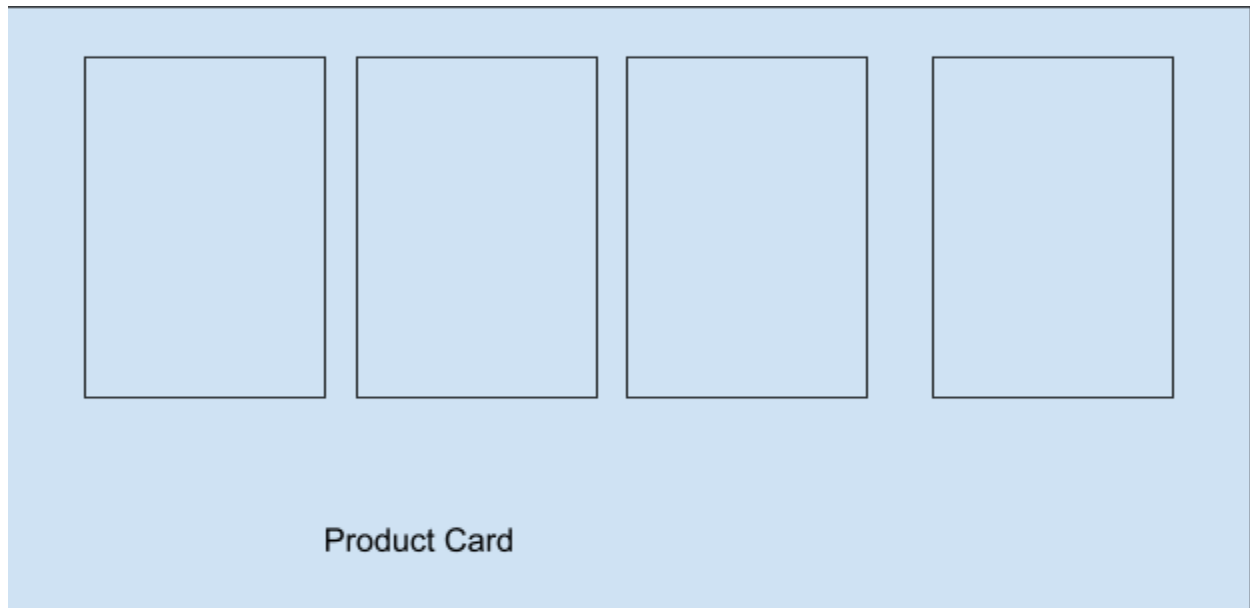
```
}
```

Core language

Framework language

Library language

11-01-2024



11-01-2023

Functional component

Internal function

Create a folder in src

Create a file with .jsx extension

File name first letter of the file will always capital.

File name and function name will same.

```
<>  
  
</>
```

React fragment.

- **Create 10 external components and print any message.**

First.jsx

```
import React from "react";
```

```
const First = () =>{
  return(
    <>
      <h1>Hello From External Components</h1>
    </>
  )
}

const Second = () =>{
  return(
    <>
      <h1>Hello Second</h1>
    </>
  )
}

export {First, Second}
```

App.js

```
import React from 'react';
import {First, Second} from './components/First';

function App() {
  return (
    <div className="App">
      <First />
      <Second />
    </div>
  );
}

export default App;
```

Components

Type of components

Internal component

External component

Default

Class components.

```
import React from "react";

class First extends React.Component {
  render() {
    return(
      <>
        <h1>jhfhjnmj</h1>
      </>
    )
  }
}

export default First
```

Css

1. Inline css

```
import React from "react";

const First = () => {
  return(
    <>
      <h1 style={{color:'red', backgroundColor:'green',
textAlign:'center'}}>Hello From React Components</h1>
    </>
  )
}

export default First
```

2. Internal css

```
import React from "react";

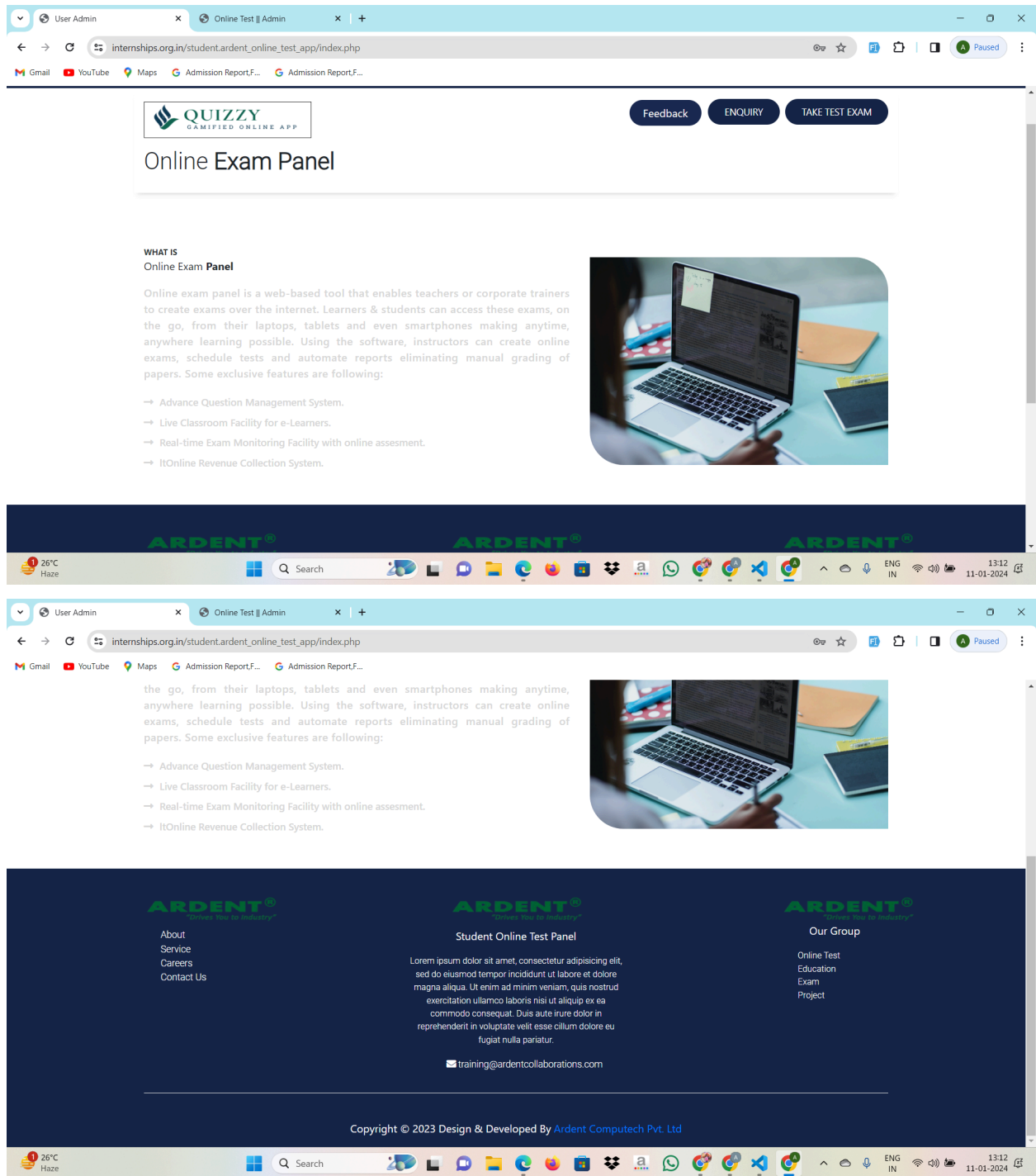
const cssStyle = {
  color: 'red',
  backgroundColor: 'pink',
  fontFamily: 'sans-serif'
}

const First = () => {
  return(
    <>
      <h1 style={cssStyle}>Hello From React Components</h1>
    </>
  )
}

export default First
```

3. External

1. Diff between normal function and arrow function.
2. Functional and class components.
3. Diff. between .js and .jsx



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1. Bootstrap

How to use bootstrap

Link cdn with your application.

```
import React from 'react';

const Boots = () =>{
  return(
    <>
      <div className='container-fluid'>
        <div className='row'>
          <div className='col-lg-1 col-md-6 col-sm-12
first'></div>
          <div className='col-lg-1 col-md-6 col-sm-12
sec'></div>
          <div className='col-lg-1 col-md-6 col-sm-12
first'></div>
          <div className='col-lg-1 col-md-6 col-sm-12
sec'></div>
          <div className='col-lg-1 col-md-6 col-sm-12
first'></div>
          <div className='col-lg-1 col-md-6 col-sm-12
sec'></div>
          <div className='col-lg-1 col-md-6 col-sm-12
first'></div>
          <div className='col-lg-1 col-md-6 col-sm-12
sec'></div>
          <div className='col-lg-1 col-md-6 col-sm-12
first'></div>
          <div className='col-lg-1 col-md-6 col-sm-12
sec'></div>
          <div className='col-lg-1 col-md-6 col-sm-12
first'></div>
          <div className='col-lg-1 col-md-6 col-sm-12
sec'></div>
        </div>
      </div>
    </>
  )
}
```

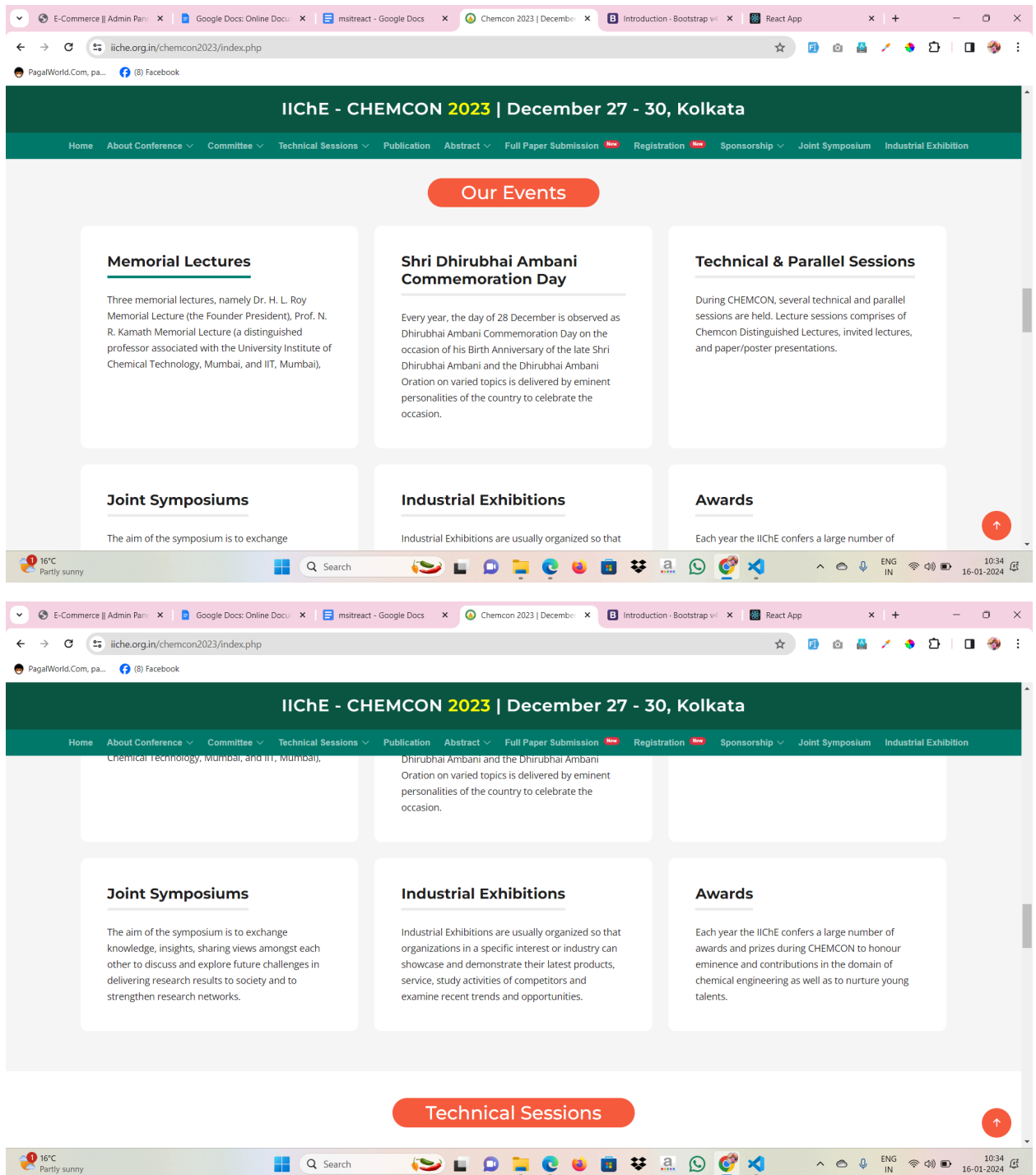
```
        </div>
      </div>
    </>
  )
}

export default Boots
```

```
import React from 'react';
import './App.css';
import Boots from './components/Boots';

function App() {
  return (
    <div className="App">
      <Boots />
    </div>
  );
}

export default App;
```



2. Router

How to use router

- Install (`npm install react-router-dom`)
- Import and use.

```

import React from "react";
import { NavLink } from "react-router-dom";

const Menu = () =>{
  return(
    <>
      <div className="container-fluid">
        <div className="row">
          <div className="col-12 menu">
            <nav>
              <ul>
                <li><NavLink to={'/'}>
className={'name'}>Home</NavLink></li>
                <li><NavLink to={'/About'}>
className={'name'}>About Us</NavLink></li>
                <li><NavLink to={' '}>
className={'name'}>Gallery</NavLink></li>
                <li><NavLink to={' '}>
className={'name'}>Rules & Regulation</NavLink></li>
                <li><NavLink to={' '}>
className={'name'}>Admission</NavLink></li>
                <li><NavLink to={' '}>
className={'name'}>Contact Us</NavLink></li>
              </ul>
            </nav>
          </div>
        </div>
      </div>
    </>
  )
}

export default Menu

```

```

import React from 'react';
import './App.css';
import { BrowserRouter, Routes, Route } from 'react-router-dom';
import Menu from './components/Menu';
import About from './components/About';

```

```

function App() {
  return (
    <div className="App">
      <BrowserRouter>
        <Routes>
          <Route exact path="/" element={<Menu />}></Route>
          <Route exact path="/About" element={<About />}></Route>
        </Routes>
      </BrowserRouter>
    </div>
  );
}

export default App;

```

Css

```

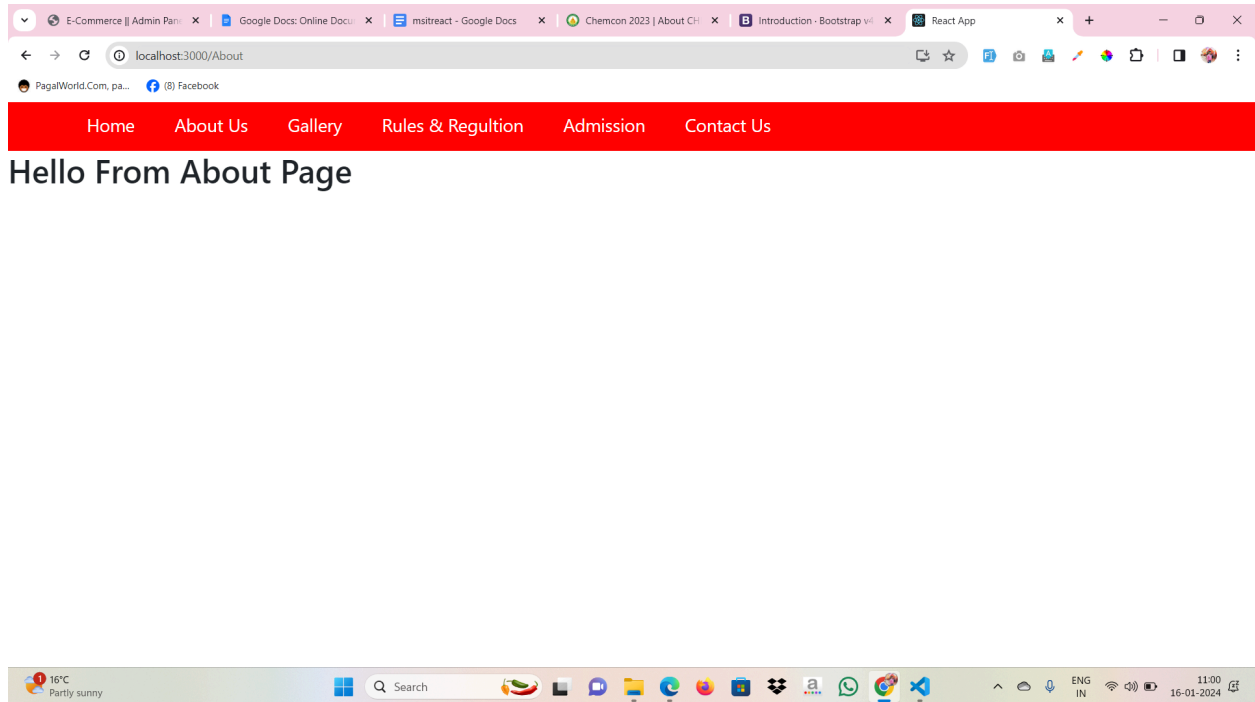
body{
  margin: 0px;
  padding: 0px;
}
.menu{
  height: 60px;
  background-color: red;
  padding-top: 11px;
}
.menu nav ul li{
  display: inline-block;
}
.menu nav ul li .name{
  color: #fff;
  text-decoration: none;
  font-size: 22px;
  margin-left: 35px;
  padding: 3px 7px;
}

```

```
}  
.menu nav ul li .name:hover{  
  color: red;  
  background-color: #fff;  
  transition: all 2s;  
}
```

About.jsx

```
import React from "react";  
import Menu from "../Menu";  
  
const About = () =>{  
  return(  
    <>  
      <Menu />  
      <h1>Hello From About Page</h1>  
    </>  
  )  
}  
  
export default About
```



18-01-2024
Project

1. Cricket events.
2. College to college communication.
3. E-commerce.
4. CHATBOT.
5. Employee management system.
6. CALL CENTER MANAGEMENT.
7. ONLINE EDUCATION.
8. ONLINE CRIME FILE MANAGEMENT SYSTEM
9. Online voting system.
10. Online job portal
11. NET BANKING SYSTEM
12. PATIENT SMART CARD
13. DOCTOR PATIENT TRACKER PORTAL

14. TRAVEL AND TOURISM APP

Props

Props is a method to transfer one component data to another component (parent to child) .

Prop.jsx

```
import React from 'react';

const Prop = (kajal) =>{
  return(
    <>
      <h1>{kajal.name}</h1>
    </>
  )
}

export default Prop
```

App.js

```
import React from 'react';
import './App.css';
import Prop from './components/Prop';

function App() {
  return (
    <div className="App">
      <Prop
        name = 'Hello From Props'
      />
    </div>
  );
}

export default App;
```