

V-EX TECH

Web Development

Java / Node.js / PHP / .Net / Python

Certification Course

**Assured Placement Program
With International Certificate**

About V-Ex Tech....

V-Ex Tech is an elevated education platform providing rigorous industry-relevant programs Designed and delivered on collaboration with industry professionals. It has been constantly Into process of creating an immersive learning experience binding latest technologies, pedagogy and services with enormous job placement opportunities too.

REACT JS

Create React App

[Node.js](#) is required to use `create-react-app`.

```
npx create-react-app my-react-app
```

Run the React Application

```
cd my-react-app
```

```
npm start
```

`localhost:3000`

WATCH VIDEO:

<https://www.youtube.com/watch?v=zsvPDDpz5jU&list=PLfHFR4U0QuQJSC7IOWVyVpBKA3eaLZ1LP>

install react snippet for rafce shortcut

What is ES6?

ES6 stands for ECMAScript 6.

- [Arrow Functions](#)
-
- [Variables](#) (let, const, var)
-
- [Destructuring](#)
-
- [Modules](#) –IMPORT AND EXPORT
-
- [Ternary Operator](#)
-
- [Spread Operator](#)

Destructing Arrays

```
const vehicles = ['mustang', 'f-150', 'expedition'];  
  
// old way  
const car = vehicles[0];  
const truck = vehicles[1];  
const suv = vehicles[2];
```

destructured

```
const vehicles = ['mustang', 'f-150', 'expedition'];
```

```
const [car, truck, suv] = vehicles;
```

Array MAP

```
const myArray = ['apple', 'banana', 'orange'];  
const myList = myArray.map((item) => <p>{item}</p>)
```

MODULES

shortcut

```
const name = "Jesse"  
const age = 40  
  
export { name, age }  
const message = () => {  
  const name = "Jesse";  
  const age = 40;  
  return name + ' is ' + age + 'years old.';  
}
```

```
};
```

```
export default message;
```

import

```
import { name, age } from "./person.js";
```

Ternary Operator

conditional operator like `if / else`.

Syntax: `condition ? <expression if true> : <expression if false>`

```
if (age>23) {  
    Logout();  
} else {
```

```
    Login();  
}
```

With ternary

```
Age>23 ? Logout() : Login();
```

SPREAD OPERATOR

```
const numbersOne = [1, 2, 3];  
const numbersTwo = [4, 5, 6];  
const numbersCombined = [...numbersOne, ...numbersTwo];
```

ARROW FUNCTION

```
hello = () => "Hello World!";
```

What is JSX?

JSX stands for JavaScript XML. --Extensible Markup Language

JSX allows us to write HTML in React.

```
Const Xy="hi"  
Const students = {"veer","amit","mehul"}  
Const h2 = <h2>hi{5+5} welcome {students}
```

```
({h2}, {Xy}, 'I do not {6+6} use JSX!')
```

```
const x = 5;  
let text = "Goodbye";  
if (x < 10) {  
  text = "Hello";  
}
```

Props

```
function Car(props) {  
  return <h2>I am a {props.color} Car!</h2>;  
}
```

```
const root = ReactDOM.createRoot(document.getElementById('root'));  
root.render(<Car color="red"/>);
```

Pass Data

```
function Car(props) {  
  return <h2>I am a { props.brand }!</h2>;  
}
```

```
function Garage() {  
  return (  
    <>  
      <h1>Who lives in my garage?</h1>  
      <Car brand="Ford" />  
    </>  
  );  
}
```


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```
}
```

```
function Car(props) {  
  return <h2>I am a { props.brand }!</h2>;  
}
```

```
function Garage() {  
  const carName = "Ford";  
  return (  
    <>  
    <h1>Who lives in my garage?</h1>  
    <Car brand={ carName } />  
  </>  
  );  
}
```

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```
function Car(props) {  
  return <h2>I am a { props.brand.model }!</h2>;  
}  
  
function Garage() {  
  const carInfo = { name: "Ford", model: "Mustang" };  
  return (  
    <>  
      <h1>Who lives in my garage?</h1>  
      <Car brand={ carInfo } />  
    </>  
  );  
}
```

React Router

```
npm i -D react-router-dom
```

```
<BrowserRouter>
```

```
<Routes>
```

```
<Route path>
```

App.js

```
<div>

  <BrowserRouter>

    <Routes>
      <Route path="/" element={<Header/>}/>
      <Route path="/home" element={<Home/>}/>

      <Route path="/header" element={<Contact/>}/>
    </Routes>

  </BrowserRouter>

</div>
```

Header.js

```
import React from 'react'
import { Link } from 'react-router-dom'

const Header = () => {
  return (
    <div>

      <ul>
        <li>
          <Link to="/home"> home</Link>
        </li>
        <li>
          <Link to="/contact"> contact</Link>
        </li>
      </ul>
    </div>
  )
}

export default Header
```

increment of number

App.js

```
import React, { useState } from 'react'

const App = () => {

  const [incre,setIncre] = useState(0);

  const increment = () =>{
    setIncre(incre+1);
  }
  return (
    <div>

      <button onClick={increment}>+</button>
      <h2>{incre}</h2>
    </div>
  )
}

export default App
```

React Using CSS

Inline Styling

App.js

```
import React from 'react'

const App = () => {
  return (
    <div>

      <h1 style={{color: "red"}}>Hello Style!</h1>
      <p>Add a little style!</p>

    </div>
  )
}

export default App
```

App.js

```
import React from 'react'

const Header = () => {
  const myStyle = {
    color: "white",
    backgroundColor: "DodgerBlue",
    padding: "10px",
    fontFamily: "Sans-Serif"
  };
  return (
    <>
      <h1 style={myStyle}>Hello Style!</h1>
      <p>Add a little style!</p>
    </>
  );
}

export default App
```

CSS Modules

Create the CSS module with the `.module.css` extension, example: `my-style.module.css`.

Header,module.css

```
.head {  
  color: DodgerBlue;  
  padding: 40px;  
  font-family: Sans-Serif;  
  text-align: center;  
}
```

App.js

```
import React from 'react'  
import styles from './Header.module.css';  
  
const App = () => {  
  return (  
    <div >  
  
      <div className={styles.head}>react app</div>  
  
      <div className={styles.head}>Welcome</div>  
    </div>  
  )  
}  
  
export default App
```


React Using Sass

```
>npm i sass
```

Create a Sass file

Extension `.scss`

`Saas.scss`

```
$myColor: red;

h1 {
  color: $myColor;
}
```

App.js

```
import React from 'react'
import '../src/sass.scss';

const App = () => {
  return (
    <div >

      <h1>hi hellow</h1>
    </div>
  )
}

export default App
```

What is a Hook?S

Hooks allow us to "hook" into React features such as state and lifecycle methods.

App.js

```
import React, { useState } from 'react'

const App = () => {
  const [color, setColor] = useState("red");

  return (
    <>
      <h1>My favorite color is {color}!</h1>
      <button
        type="button"
        onClick={() => setColor("blue")}
      >Blue</button>
      <button
        type="button"
        onClick={() => setColor("red")}
      >Red</button>
      <button
        type="button"
        onClick={() => setColor("pink")}
      >Pink</button>
      <button
        type="button"
        onClick={() => setColor("green")}
      >Green</button>
    </>
  );
}

export default App
```

useEffect Hooks

App.js

```
import { useState, useEffect } from "react";

const App = () => {
  const [count, setCount] = useState(0);

  useEffect(() => {
    setTimeout(() => {
      setCount((count) => count + 1);
    }, 1000);
  });

  return <h1>I have rendered {count} times!</h1>;
}

export default App
```

useNavigate() Hook

```
const navigate = useNavigate();

import {useNavigate} from "react-router-dom"
```

App.js

```
import { useNavigate } from "react-router-dom";

const App = () => {
  const navigate = useNavigate();

  return(
    <button onClick={()=>navigate("/home")}>About</button>
  )
}

export default App
```

1)Header

2)Routing

3)Loader

Install

```
npm i react-spinners
```

loader.jsx

```
import React from 'react';
import PuffLoader from "react-spinners/PuffLoader";

import './Load.scss'

const Load = () => {

  return (

    <div className="loading">
      <PuffLoader

        color={"blue"}
        loading={"true"}

        // size={20}
        aria-label="Loading Spinner"
        data-testid="loader"
      />
    </div>

  )
}

export default Load;
```

app.js

```
import React, { useEffect, useState } from 'react'
import Header from './components/Header/Header'
import { BrowserRouter, Route, Routes } from 'react-router-dom'
import Home from './components/Home/Home'
import Contact from './components/Contact/Contact'
import About from './components/About/About'
import Service from './components/Service/Service'
import Load from './components/Loader/Load'

const App = () => {

  const [isLoading, setIsLoading] = useState(true);

  useEffect(() => {

    // Wait for 3 seconds
    setTimeout(() => {
      setIsLoading(false);
    }, 3000);
  }, []);

  return (

    isLoading ?

      <Load/>:

    <div>

      <BrowserRouter>
      <Header/>

      <Routes>
```

```
    <Route path="/" element={<Home/>}/>

    <Route path="/contact" element={<Contact/>}/>
    <Route path="/about" element={<About/>}/>
    <Route path="/service" element={<Service/>}/>

  </Routes>

  </BrowserRouter>
</div>

)
}

export default App
```

load.css

```
.loading{

  position: absolute;
  top: 50%;
  left: 50%;
  transform: translate(-50%);
  // width: 100px;
  // height: 100px;

}
```

sideMenu In React

Header.js

```
import React, { useState } from 'react'
import './Header.scss'
import { BsSearch } from "react-icons/bs"
import { AiOutlineMenuUnfold } from "react-icons/ai"
import { Link } from 'react-router-dom'
import Menu from '../Menu/Menu'

const Header = () => {

  const [menu, setMenu] = useState(false);
  return (
    <>
      <div className='header_main'>
        <div className='header-section'>
          <ul className='left'>
            <li><Link to="/service">Service</Link></li>
            <li><Link to="/contact">Contact</Link></li>
            <li><Link to="/about">About</Link></li>
          </ul>

          <div className='center'>
            <Link to="/">Veer Consultancy</Link>
          </div>

          <div className='right'>

            <div className="search" onClick={ () =>
setMenu(true)}>
              <BsSearch />
            </div>


```



```
        <div className="menu">
          <AiOutlineMenuUnfold />
        </div>

      </div>
    </div>

    </div>
    <hr />

{ menu ?
  <Menu setMenu={setMenu}/>:null
}

    </>
  )
}

export default Header
```

menu.js

```
import React from 'react'
import {MdClose} from "react-icons/md"
import "./Menu.scss"

const Menu = ({setMenu}) => {
  return (
    <div className="search-modal">
      <div className="form-field">
        <input
          autoFocus
```

```

        type="text"
        placeholder="Search for Service"

      />
      <MdClose
        className="close-btn"
        onClick={() => setMenu(false)}
      />
    </div>
    <div className="search-result-content">

      <div className="search-results">


        <div className="search-result-item" >


          <div>


            </div>


          </div>


        </div>


      </div>
    </div>
  )
}

export default Menu
```

menu.scss

```
@import "../css-config/mixins.scss";
.search-modal {
  position: fixed;
  width: 30%;
  height: 100%;
  z-index: 999;
  top: 0;
  right: 0;
  background-color: white;
  transform: translateX(50%);
  animation: slideSearchWindow 0.3s ease forwards;
  border-left: 2px solid rgba(0, 0, 0, 0.05);

  .form-field {
    width: 100%;
    display: flex;
    justify-content: center;
    padding: 10px 50px;
    border-bottom: 1px solid rgba(0, 0, 0, 0.1);
    position: relative;

    @include md {
      padding: 20px 0;
    }

    input {
      width: 100%;
      // max-width: 1200px;
      height: 50px;
      text-align: center;
      font-size: 10px;
      font-weight: 600;
      color: #212121;
      outline: none;
      border: none;
      text-transform: capitalize;
    }
  }
}
```

```
@include md {
    height: 80px;
    font-size: 28px;

}
&::placeholder {
    color: #ff0e0ea1;

}
}
.close-btn {
    position: absolute;
    font-size: 25px;
    right: 20px;
    top: 50%;
    transform: translateY(-50%);
    cursor: pointer;
    @include md {
        right: 40px;
        font-size: 40px;
    }
}
.search-result-content {
    max-width: calc(100% - 20px);
    margin: 0 auto;
    @include md {
        max-width: 800px;
    }
    .start-msg {
        text-align: center;
        margin-top: 20px;
        color: rgba(0, 0, 0, 0.5);
    }
    .search-results {
        height: calc(100vh - 110px);
        overflow: auto;
        margin: 20px 0;
        @include md {
            height: calc(100vh - 160px);
        }
    }
}
```

```
}
.search-result-item {
  display: flex;
  align-items: center;
  gap: 10px;
  padding: 10px 0;
  border-bottom: 1px solid rgba(0, 0, 0, 0.1);
  cursor: pointer;
  .image-container {
    background-color: rgba(0, 0, 0, 0.05);
    width: 60px;
    background-size: cover;
    height: 60px;
    flex-shrink: 0;

    img {
      width: 100%;
      height: 100%;
    }
  }
  .prod-details {
    overflow: hidden;
    .name {
      text-overflow: ellipsis;
      white-space: nowrap;
      overflow: hidden;
      font-size: 16px;
      line-height: 1;
      margin-bottom: 10px;
      font-weight: 600;
      display: block;
    }
  }
}
}
}
}
}

@keyframes slideSearchWindow {
  0% {
```

```
    transform: translateX(50%);  
  }  
  100% {  
    transform: translateX(0);  
  }  
}
```

Import Slider

We use npm for slider

Install: `react-responsive-carousel`

- Create slider folder in home page
- Create slider.jsx and slider.scss file in slider folder

Slider.jsx

```
import React from 'react'
import "react-responsive-carousel/lib/styles/carousel.min.css"; // requires a loader
import { Carousel } from 'react-responsive-carousel';
import Slider1 from "../../assets/category/cat-1.jpg" ;
import Slider2 from "../../assets/category/cat-2.jpg" ;
import Slider3 from "../../assets/category/cat-3.jpg" ;
import Slider4 from "../../assets/category/cat-4.jpg" ;

const Slider = () => {
  return (
    <div>
      <Carousel>
        <div>
          <img src={Slider1} />
          <p className="legend">Legend 1</p>
        </div>

        <div>
          <img src={Slider2} />
          <p className="legend">Legend 2</p>
        </div>

        <div>
          <img src={Slider3}/>
          <p className="legend">Legend 3</p>
        </div>

        <div>
          <img src={Slider4}/>
          <p className="legend">Legend 4</p>
        </div>
      </Carousel>
    </div>
  )
}

export default Slider
```

Slider.scss

You can change as per your required.

Attributes

In Slider.js

```
<Carousel
  autoFocus={true}
  autoPlay={true}
  emulateTouch={true}
  infiniteLoop={true}
  interval={3000}
  transitionTime={2000}
  showThumbs={false}
>
```

Home.js

```
import React from 'react'
import Slider from './Slider/Slider'
import './Home.scss'

const Home = () => {
  return (
    <div className='home_main'>
      <Slider/>
    </div>
  )
}

export default Home
```


useparams()

App.js

```
<Route exact path="/MERNSTACK" element={<Home />} />  
  <Route path="/contact" element={<Contact/>} />  
  <Route path="/service" element={<Service/>} />  
  <Route path="/service/:name" element={<Fullstack/>}/>
```

App.js

```
const params = useParams();  
const {name} = params  
console.warn(name)
```

```
<h1>name is {name} page</h1>  
  
<ul>  
  <li><Link to="/service/mohit">mohit page</Link></li>  
  <li><Link to="/service/sumit">sumit page</Link></li>  
</ul>
```

Userparam() dynamic

App.js

```
import React from 'react'
import {
  BrowserRouter as Router,

  Route,
  Routes
} from "react-router-dom";

import ExploreContainer from './ExploreContainer';
import ExploreDetail from './ExploreDetail';

const App = () => {
  const data = [
    {
      id: 1,
      name: 'Hong Kong Disneyland',
      category: 'Entertainment'
    },
    {
      id: 2,
      name: 'Repulse Bay and the Beaches',
      category: 'Outdoor'
    },
    {
      id: 3,
      name: 'Star Ferry PierVictoria Harbour',
      category: 'Attraction'
    }
  ]
}
```

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```
return (  
  <Router>  
    <Routes>  
      <Route path='/explore' element={<ExploreContainer data={ data }/>}/>  
  
      <Route path='/explore/:name' element={<ExploreDetail data={ data } />}/>  
  
    </Routes>  
  </Router>  
)  
}  
  
export default App
```

ExploreConatiner.js

```
import React from 'react'  
import ExploreCard from './ExploreCard'  
  
const ExploreContainer = ({data}) => {  
  return (  
    <div>  
      <ExploreCard data={data}/>  
    </div>  
  )  
}  
  
export default ExploreContainer
```

ExploreCard.js

```
import React from 'react'
import { Link } from 'react-router-dom'

const ExploreCard = ({ data }) => {
  return (
    <>
      { data.map(list => (
        <div key={ list.id }>
          <h4>Name: <Link to={` /explore/${list.name}`}>{list.name}</Link></h4>
        </div>
      )))}
    </>
  )
}

export default ExploreCard;
```

ExploreDetails.jsx

```
import React from 'react'
import { useParams } from 'react-router-dom'

const ExploreDetail = ({ data }) => {
  const { name } = useParams();

  return (
    <div className="full-detail">
      <div className="explore-container">
        {
          data
            .filter((list) => list.name === name)
            .map((list) => (
              <div className="full-card" key={ list.id }>

```

```
        <h2>Name: {list.name}</h2>
        <h4>Category: {list.category}</h4>
      </div>
    )))
  </div>
</div>
)
}

export default ExploreDetail;
```