

Create React Application by using "Create-React-App" library

- "Create-react-app" is a tool that provides commands for building and managing **React Application**.
- There are 2 techniques
 - o **Install "Create React App" tool**
C:\> npm install -g create-react-app
C:\> create-react-app **your_app_name**
 - o **Directly Create React Application by using "NPX"**
C:\> npx create-react-app your_app_name
C:\> **npx create-react-app react-shopping**
- Open your application folder in Editor: Visual Studio Code
- Open the terminal
- Run the command
> npm start
this will compile and start your react application on <http://localhost:3000>
- Access the URL from any Browser.

Ex: Customize Index by rendering HTML content.

- Go to "index.js" in "src" folder
ReactDOM.render(
 <React.StrictMode>
 <h2>**React-Shopping-Application**</h2>
 </React.StrictMode>,
 document.getElementById('root')
>);

React Components

- A component is a combination of
 - o Presentation [HTML]
 - o Styles [CSS]
 - o Logic [JavaScript | TypeScript]
- React components are designed by using
 - o JavaScript Functions
 - o JavaScript Classes

Creating a new Component using JavaScript Function

- Go to SRC folder
- Add a new folder "components"
- Add a new JavaScript file
LoginComponent.js

```

export default function LoginComponent(){
  const title = "User Login";
  return(
    <div>
      <h2>{title}</h2>
      <dl>
        <dt>User Name</dt>
        <dd>
          <input type="text" />
        </dd>
        <dt>Password</dt>
        <dd>
          <input type="password" />
        </dd>
      </dl>
      <button>Login</button>
    </div>
  )
}

```

- Go to Index.js
- Import LoginComponent

```

import React from 'react';
import ReactDOM from 'react-dom';
import './index.css';
import App from './App';
import reportWebVitals from './reportWebVitals';
import LoginComponent from './components/LoginComponent';

```

```

ReactDOM.render(
  <React.StrictMode>
    <div style={{margin:'30px'}}>
      <h2>React-Shopping-Application</h2>
      <LoginComponent />
    </div>
  </React.StrictMode>,
  document.getElementById('root')
);

```

