**Create a QR code generator app using ReactJS**

**Creating a React application:**

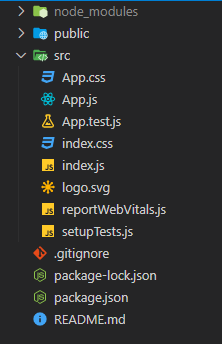
**Step 1:** Create a react application by typing the following command in the terminal.

npx create-react-app qrcode-gen

**Step 2:** Now, go to the project folder i.e qrcode.gen by running the following command.

cd qrcode-gen

**Project Structure:** It will look like the following.



* Javascript

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| import { useEffect, useState } from 'react';  import './App.css';    function App() {    const [temp, setTemp] = useState("");    const [word, setWord] = useState("");    const [size, setSize] = useState(400);    const [bgColor, setBgColor] = useState("ffffff");    const [qrCode, setQrCode] = useState("");      // Changing the URL only when the user    // changes the input    useEffect(() => {      setQrCode   (`http://api.qrserver.com/v1/create-qr-code/?data=${word}!&size=${size}x${size}&bgcolor=${bgColor}`);    }, [word, size, bgColor]);      // Updating the input word when user    // click on the generate button    function handleClick() {      setWord(temp);    }      return (      <div className="App">        <h1>QR Code Generator</h1>        <div className="input-box">          <div className="gen">            <input type="text" onChange={              (e) => {setTemp(e.target.value)}}              placeholder="Enter text to encode" />            <button className="button"              onClick={handleClick}>              Generate            </button>          </div>          <div className="extra">            <h5>Background Color:</h5>            <input type="color" onChange={(e) =>            { setBgColor(e.target.value.substring(1)) }} />            <h5>Dimension:</h5>            <input type="range" min="200" max="600"             value={size} onChange={(e) =>             {setSize(e.target.value)}} />          </div>        </div>        <div className="output-box">          <img src={qrCode} alt="" />          <a href={qrCode} download="QRCode">            <button type="button">Download</button>          </a>        </div>      </div>    );  }    export default App; |

Now, let’s edit the file named **App.css**to design our app.

* CSS

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| --- |
| @import url('<http://fonts.cdnfonts.com/css/lilly>');  .App{    display: flex;    flex-direction: column;    justify-content: center;    align-items: center;    gap: 50px;    padding-top: 30px;  }  h1{    font-family: 'Lilly', sans-serif;    font-size: 50px;  }  .gen input{    height: 35px;    width: 250px;    font-size: 20px;    padding-left: 5px;  }  button{    position: relative;    height: 38px;    width: 100px;    top: -2px;    font-size: 18px;    border: none;    color: whitesmoke;    background-color: forestgreen;    box-shadow: 2px 2px 5px rgb(74, 182, 74);    cursor: pointer;  }  button:active{    box-shadow: none;  }  .extra{    padding-top: 20px;    display: flex;    justify-content: space-around;    gap: 10px;  }  .output-box{    display: flex;    flex-direction: column;    align-items: center;    gap: 40px;  } |

**Step to Run Application:** Run the application using the following command from the root directory of the project:

npm start

**Output:** Now open your browser and go to **http://localhost:3000/**, you will see the following output:

