

Lab Assignment 5

Create an App using React with Components, Rendering, and Data Sharing

App.js

```
import React from 'react';
import './App.css'; // Add your own styling here
import AgeCalculator from './AgeCalculator';

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

export default App;
```

Components used:

AgeCalculator.js

```
// AgeCalculator.js
import React, { useState } from 'react';
import Display from './Display';
import './styles.css';

const AgeCalculator = () => {
  const [birthday, setBirthday] = useState('');
  const [age, setAge] = useState('');

  const calculateAge = () => {
    const birthDate = new Date(birthday);
    const currentDate = new Date();
    const calculatedAge = Math.floor((currentDate - birthDate) / (365.25 * 24 *
60 * 60 * 1000));
    setAge(calculatedAge);
  };
};
```

```

return (
  <div className="age-calculator">
    <h1>Age Calculator</h1>
    <label htmlFor="birthday">Enter your birthday:</label>
    <input
      type="date"
      id="birthday"
      value={birthday}
      onChange={(e) => setBirthday(e.target.value)}
    />
    <button onClick={calculateAge}>Calculate Age</button>
    <Display age={age} />
  </div>
);
};

export default AgeCalculator;

```

Display.js

```

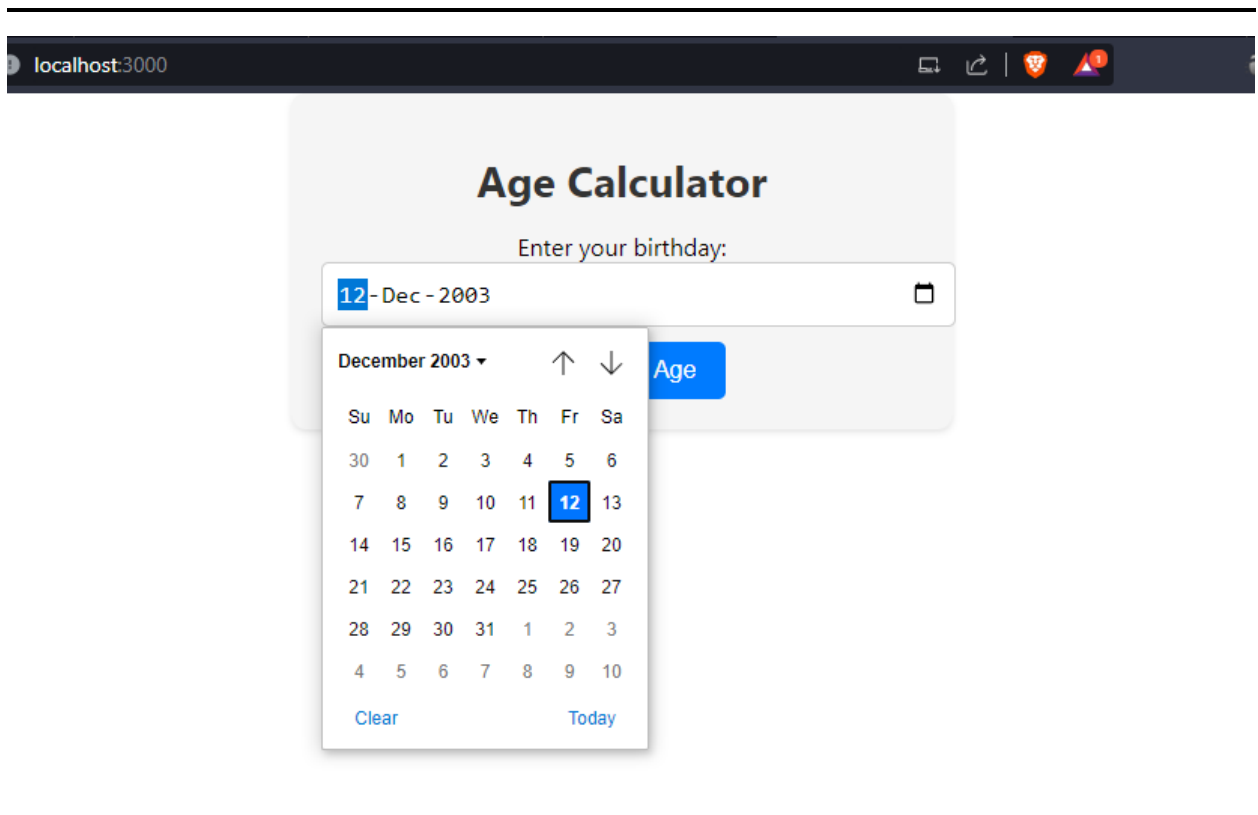
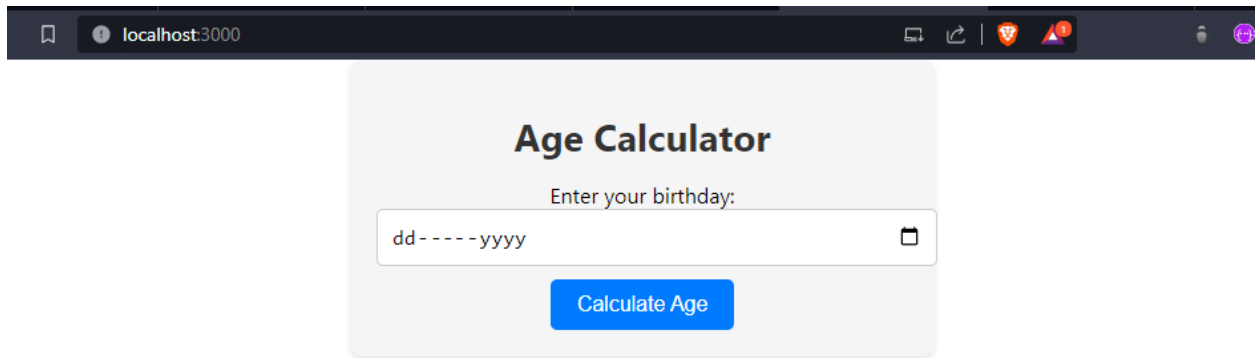
// Display.js
import React from 'react';

const Display = ({ age }) => {
  return (
    <div className="display">
      {age !== '' && <p>Your age is: {age} years</p>}
    </div>
  );
};

export default Display;

```

Output screenshots:



Age Calculator

Enter your birthday:

12-Dec-2003



Calculate Age

Your age is: 19 years