

Week -9

1.Skill builder

Welcome.jsx

```
import React from 'react';

import './Welcome.css';

function Welcome({ name }) {

  return (

    <div className='welcome'>

      <h2>{name}</h2>

    </div>

  );

};

export default Welcome;
```

Welcome.css

```
.welcome h2 {

margin: 5px 0;

color: #333;

}
```

App.js

```
import './App.css';

import Welcome from './components/Welcome';

function App() {

  return (

    <div className="App">

      <h1>Neo Players</h1>

      <h3>Top Students List</h3>

      <Welcome name="Sara" />

      <Welcome name="Chahal" />

      <Welcome name="Phillips" />

    </div>

  );

}
```

```

</div>

);

}

export default App;

```

2.Challenge yourself

LifecycleLogs.js

```

import React from 'react';

const LifecycleLogs = ({ logs, CL }) => {

  return (

    <div style={{ marginTop: '30px' }}>

      <h2>Lifecycle Logs</h2>

      <button onClick={CL}>Clear Log</button>

      <div

        style={{

          border: '1px solid #ccc',

          marginTop: '10px',

          padding: '10px',

          minHeight: '100px',

        }}

        >

        {logs.length === 0 ? (

          <p>No logs yet</p>

        ) : (

          logs.map((l, ind) => <p key={ind}>{l}</p>)

        )}

      </div>

    </div>

  );

};

```

```
export default LifecycleLogs;
```

CityFilter.js

```
import React, { useEffect } from 'react';

const CityFilter = ({ currentFilter, onFilterChange, addLog, renderCount }) => {

  useEffect(() => {

    addLog('CityFilter Mounted');

  }, [addLog]);

  return (

    <div style={{ marginBottom: '20px' }}>

      <h2>Filter by Condition</h2>

      <select

        role="combobox"

        value={currentFilter}

        onChange={(e) => onFilterChange(e.target.value)}

        >

        <option value="all">All Conditions</option>

        <option value="Sunny">Sunny</option>

        <option value="Cloudy">Cloudy</option>

        <option value="Rainy">Rainy</option>

        <option value="Snowy">Snowy</option>

      </select>

      <p>Render Count: {renderCount}</p>

    </div>

  );

};

export default CityFilter;
```

Weathercard.js

```
import React, { useEffect } from 'react';

const WeatherCard = ({ city, onToggle, addLog }) => {

  useEffect(() => {

    addLog(`WeatherCard Mounted: ${city.name}`)

  }, [addLog, city]);

  return (

    <div style={{

      border: '1px solid #ddd',

      marginBottom: '10px',

      padding: '10px',

      borderRadius: '8px',

      backgroundColor: '#f9f9f9'

    }}>

      <h3>{city.name}</h3>

      <p>{city.temp}°C</p>

      <span style={{

        background: '#ddd',

        padding: '4px 8px',

        borderRadius: '6px'

      }}>

        {city.condition}

      </span>

      <div style={{ marginTop: '10px' }}>

        <button onClick={() => onToggle(city.id)}>

          {city.active === true ? 'Remove City' : 'Add City'}

        </button>

      </div>

    </div>

    <p>{city.condition}</p>
```

```

<p>{city.condition}</p>
</div>
</div>
);
};
export default WeatherCard;

```

App.js

```

import React, { useState, useEffect, useCallback } from 'react';
import CityFilter from './components/CityFilter';
import WeatherCard from './components/WeatherCard';
import LifecycleLogs from './components/LifecycleLogs';
function App() {
  const [c, setC] = useState([
    { id: 1, name: 'New York', condition: 'Sunny', temp: 22, active: true },
    { id: 2, name: 'London', condition: 'Cloudy', temp: 15, active: true },
    { id: 3, name: 'Tokyo', condition: 'Rainy', temp: 18, active: true },
    { id: 4, name: 'Paris', condition: 'Snowy', temp: 20, active: true }
  ]);
  const [l, setL] = useState([]);
  const [f, setF] = useState('all');
  const [rc, setRC] = useState(1);
  const AL = useCallback((m) => {
    setL((p) => [...p, `${new Date().toLocaleTimeString()} - ${m}`]);
  }, []);
  const FC = (v) => {
    setF(v);
    AL(`Filter changed to: ${v}`);
  };
  const TC = (id) => {
    setC((p) => p.map((ct) => ct.id === id ? { ...ct, active: !ct.active } : ct));
  };

```

```

AL(`City toggled: ${id}`);
};

const CL = () => setL(['Logs cleared']);

useEffect(() => { AL('App Mounted'); }, [AL]);

useEffect(() => { setRC((cnt) => cnt + 1); }, [!]);

const fc = f === 'all' ? c.filter((ct) => ct.active) : c.filter((ct) => ct.active && ct.condition === f);

return (
<div style={{ padding: '20px', fontFamily: 'Arial' }}>
<h1>Weather Dashboard</h1>
<CityFilter currentFilter={f} onFilterChange={FC} addLog={AL} renderCount={rc} />
<h2>Cities</h2>
{
fc.length > 0 ? (
fc.map((ct) => (
<WeatherCard key={ct.id} city={ct} onToggle={TC} addLog={AL} />
))
): (
<p>No cities to display</p>
)
}
<LifecycleLogs logs={l} CL={CL} />
</div>
);
}

export default App;

```