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>
);
}
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); }, [l]);
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;
```