

```

import React, { useState, useEffect } from "react";
import axios from "axios";
import "./App.css";

function App() {
  const [inputData, setInputData] = useState(""); // Input field data
  const [error, setError] = useState(""); // Error message
  const [responseData, setResponseData] = useState(null); // API response data
  const [dropdownOptions, setDropdownOptions] = useState([]); // Dropdown
  selection

  // Set the website title to your roll number
  useEffect(() => {
    document.title = "CSE101";
  }, []);

  const handleSubmit = async (event) => {
    event.preventDefault();
    setError("");
    setResponseData(null);

    try {
      // Validate JSON
      const parsedData = JSON.parse(inputData);

      // Call the backend API
      const response = await axios.post("https://your-backend-api-url.com/",
parsedData);
      setResponseData(response.data);
    } catch (err) {

```

```
      setError("Invalid JSON format or API error. Please check the input.");
    }
  };
```

```
const handleDropdownChange = (event) => {
  const selectedOptions = Array.from(
    event.target.selectedOptions,
    (option) => option.value
  );
  setDropdownOptions(selectedOptions);
};
```

```
return (
  <div className="App">
    <header className="App-header">
      <h1>JSON Processor</h1>
    </header>
    <main>
      <form onSubmit={handleSubmit}>
        <label htmlFor="jsonInput">Enter JSON:</label>
        <textarea
          id="jsonInput"
          rows="5"
          cols="50"
          value={inputData}
          onChange={(e) => setInputData(e.target.value)}
          placeholder='e.g., { "data": ["A", "C", "Z"] }'
        />
        <br />
      </form>
    </main>
  </div>
);
```

```
<button type="submit">Submit</button>
```

```
</form>
```

```
{error && <p className="error">{error}</p>}
```

```
{responseData && (
```

```
<>
```

```
<div>
```

```
<label htmlFor="dropdown">Select Response Fields:</label>
```

```
<select
```

```
  id="dropdown"
```

```
  multiple
```

```
  onChange={handleDropdownChange}
```

```
  style={{ marginLeft: "10px" }}
```

```
>
```

```
<option value="Alphabets">Alphabets</option>
```

```
<option value="Numbers">Numbers</option>
```

```
<option value="Highest Lowercase Alphabet">
```

```
  Highest Lowercase Alphabet
```

```
</option>
```

```
</select>
```

```
</div>
```

```
<div className="response">
```

```
<h2>Response:</h2>
```

```
<pre>
```

```
  {dropdownOptions.includes("Alphabets") &&
```

```
    responseData.alphabets_array && (
```

```
      <>
```

```

        <strong>Alphabets:</strong>{" "}
        {JSON.stringify(responseData.alphabets_array, null, 2)}
        <br />
    </>
    })
    {dropdownOptions.includes("Numbers") &&
    responseData.numbers_array && (
    <>
        <strong>Numbers:</strong>{" "}
        {JSON.stringify(responseData.numbers_array, null, 2)}
        <br />
    </>
    })
    {dropdownOptions.includes("Highest Lowercase Alphabet") &&
    responseData.highest_lowercase_alphabet && (
    <>
        <strong>Highest Lowercase Alphabet:</strong>{" "}
        {responseData.highest_lowercase_alphabet}
        <br />
    </>
    })
    </pre>
</div>
</>
    })
</main>
</div>
);
}

```

```
export default App;
```