

React JS

Using the State Hook

10.ExpAppStates-v09

- <https://reactjs.org/docs/hooks-effect.html>

```
import React, { useState } from 'react';
function Example() {
  // Declare a new state variable, which we'll call "count"
  const [count, setCount] = useState(0);

  return (
    <div>
      <p>You clicked {count} times</p>
      <button onClick={() => setCount(count + 1)}>
        Click me
      </button>
    </div>
  );
}
```

Json Data

- http://localhost/FASTSP22_Web/expense_api/api/read.php

```
[{"id":"1","title":"House Rent","price":"250","date":"2022-04-23"}, {"id":"2","title":"school fee","price":"300","date":"2022-04-23"}, {"id":"15","title":"Ticket","price":"0","date":"2022-04-23"}, {"id":"24","title":"uniform","price":"123","date":"2022-04-23"}]
```

Using the Fetch API for reading data

16.ExpAppFetchAPI-v15

- https://developer.mozilla.org/en-US/docs/Web/API/Fetch_API/Using_Fetch

A basic fetch request is really simple to set up. Have a look at the following code:

```
fetch('http://example.com/movies.json')  
  .then(response => response.json())  
  .then(data => console.log(data));
```

- `fetch()` takes one argument — the path to the resource you want to fetch — and does not directly return the JSON response body but instead returns a promise that resolves with a `Response` object.

MySQL

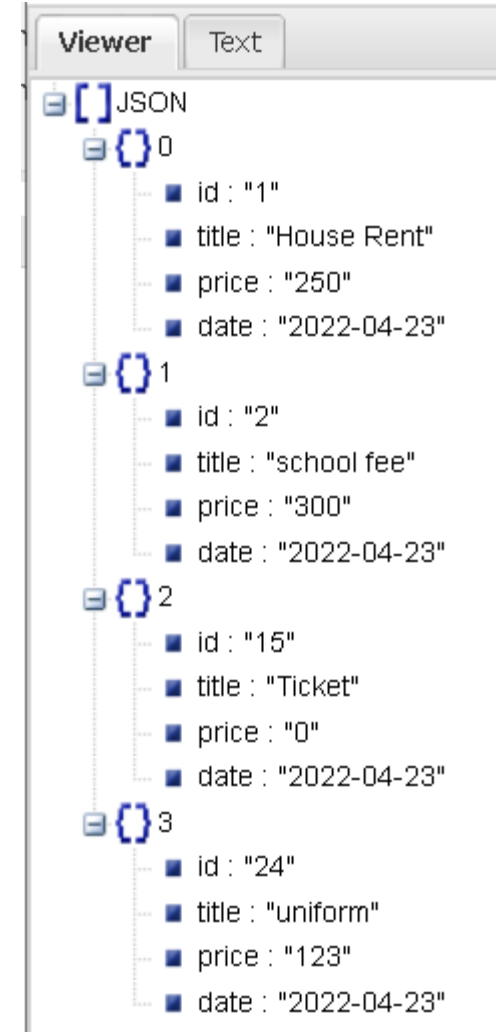
The screenshot displays the MySQL Workbench interface. On the left, the 'root@localhost' session is active, and the 'expenseapodb' database is selected. Under the 'Tables' folder, the 'expense' table is highlighted. The main workspace is divided into several panes. The top pane shows the 'Query' tab with an autocomplete hint: 'Autocomplete: [Tab]->Next Tag. [Ctrl+Space]->List Matchin'. Below this, the '1 Result' tab is active, displaying a table of data. The table has four columns: 'id', 'title', 'price', and 'date'. The data rows are as follows:

	id	title	price	date
<input checked="" type="checkbox"/>	1	House Rent	250	2022-04-23
<input type="checkbox"/>	2	school fee	300	2022-04-23
<input type="checkbox"/>	15	Ticket	0	2022-04-23
<input type="checkbox"/>	24	uniform	123	2022-04-23
*	(NULL)	(NULL)	(NULL)	(NULL)

At the bottom of the interface, there are tabs for '1 Result', '2 Profiler', '3 Messages', and '4 T'. Below these tabs, there are icons for various database operations and a section for 'All Rows' and 'Rows in a Range' with a 'First Row' indicator.

JSON Viewer

- <http://jsonviewer.stack.hu/>



React App

← → ↻ ⓘ localhost:3000/? 🔍 🔗 ☆ ⚙️ 🖱️ 👁️ ⋮

Title

Amount

Date 📅

Add Expense

House Rent	Rs 250
school fee	Rs 300
Ticket	Rs 0
uniform	Rs 123

Using the Effect Hook

17.ExpAppUseEffect-v16

- <https://reactjs.org/docs/hooks-effect.html>
- The *Effect Hook* lets you perform side effects in function components:

Using the Effect Hook

17.ExpAppUseEffect-v16

```
import React, { useState, useEffect } from 'react';
function Example() {
  const [count, setCount] = useState(0);
  // Similar to componentDidMount and componentDidUpdate:
  useEffect(() => {
    // Update the document title using the browser API
    document.title = `You clicked ${count} times`;
  });
  return (
    <div>
      <p>You clicked {count} times</p>
      <button onClick={() => setCount(count + 1)}>
        Click me
      </button>
    </div>
  );
}
```

Using the Fetch API for POST

```
fetch('http://localhost/FASTSP22_Web/expense_api/api/create.php', {  
  method: 'POST',  
  body: JSON.stringify(expense),  
  headers: {  
    'content-Type' : 'application/json'  
  }  
}).then(  
  response => {  
    fetchData(); → Using fetch API for read  
  }  
);
```

Using the Fetch API for POST

```
function fetchData(){
    fetch('http://localhost/FASTSP22_Web/expense_api/api/read.php').then(
        response => {
            return response.json()
        }
    ).then(
        data => {
            console.log(data);
            setExpenses(data);
        }
    );
}
```

Credits

- Another Simple Expense Tracker App Article
- <https://javascript.plainenglish.io/learn-react-by-building-an-expense-tracker-app-fa7625891345>
Code: <https://github.com/imran-farooq7/expense-tracker>