Backend database - json server

```
1   // 20220712155937
2   // http://localhost:4000/items
3
4   [
5     {
6       "payeeName": "Rahul",
7       "product": "Bike Repair",
8       "price": 1000,
9       "setDate": "2022-04-07",
10      "id": 1
11    },
12    {
13      "payeeName": "Rahul",
14      "product": "Movie",
15      "price": 1044,
16      "setDate": "2022-04-05",
17      "id": 2
18    },
19    {
20      "payeeName": "Ramesh",
21      "product": "Vegetables",
22      "price": 366,
23      "setDate": "2022-04-01",
24      "id": 3
25    },
26    {
27      "payeeName": "Rahul",
28      "product": "Water",
29      "price": 40,
30      "setDate": "2022-04-02",
31      "id": 4
```

Expense Tracker

Add expense

Spinner Animation before loading the data

Expense Tracker

Add expense

#	Payee	Description	Date	Amount
1	Rahul	Bike Repair	2022-04-07	1000
2	Rahul	Movie	2022-04-05	1044
3	Ramesh	Vegetables	2022-04-01	366
4	Rahul	Water	2022-04-02	40
5	Ramesh	Grocery	2022-04-03	192
6	Ramesh	Rice Bag	2022-04-05	2000
7	Ramesh	Internet Bills	2022-04-06	1200
8	Rahul	Electricity Bill	2022-04-04	724
9	Ramesh	Water	2022-04-05	40
10	Rahul	Water	2022-04-06	40
11	Rahul	Plumbing work	2022-04-05	250
12	Rahul	Tubelight	2022-04-01	149
13	Ramesh	LPG	2022-04-05	1000
			Rahul paid	3247
			Ramesh paid	4798
			Rahul has to pay	775.5

Initial List

Expense Tracker

Add expense

#	Payee	Descripti			Amount
1	Rahul	Bike Repai			1000
2	Rahul	Movie			1044
3	Ramesh	Vegetables			366
4	Rahul	Water			40
5	Ramesh	Grocery			192
6	Ramesh	Rice Bag			2000
7	Ramesh	Internet Bi			1200
8	Rahul	Electricity			724
9	Ramesh	Water			40
10	Rahul	Water	2022-04-06		40
11	Rahul	Plumbing work	2022-04-05		250
12	Rahul	Tubelight	2022-04-01		149
13	Ramesh	LPG	2022-04-05		1000
				Rahul paid	3247
				Ramesh paid	4798
				Rahul has to pay	775.5

Add an expense ✕

Who paid?

--Select payee -- ▼

--Select payee --
Rahul
Ramesh

How much?

[Close] [Add expense]

Adding expense with 2 hard-coded users

Expense Tracker

Add expense

#	Payee	Descriptio		Amount
1	Rahul	Bike Repai		1000
2	Rahul	Movie		1044
3	Ramesh	Vegetables		366
4	Rahul	Water		40
5	Ramesh	Grocery		192
6	Ramesh	Rice Bag		2000
7	Ramesh	Internet Bi		1200
8	Rahul	Electricity		724
9	Ramesh	Water		40
10	Rahul	Water	2022-04-06	40
11	Rahul	Plumbing work	2022-04-05	250
12	Rahul	Tubelight	2022-04-01	149
13	Ramesh	LPG	2022-04-05	1000
			Rahul paid	3247
			Ramesh paid	4798
			Rahul has to pay	775.5

Expenditure by Rahul for cab

Add an expense ✕

Who paid?

Rahul ⌄

For What?

Cab

How much?

250

Close Add expense

Expense Tracker

Add expense

#	Payee	Description	Date	Amount
1	Rahul	Bike Repair	2022-04-07	1000
2	Rahul	Movie	2022-04-05	1044
3	Ramesh	Vegetables	2022-04-01	366
4	Rahul	Water	2022-04-02	40
5	Ramesh	Grocery	2022-04-03	192
6	Ramesh	Rice Bag	2022-04-05	2000
7	Ramesh	Internet Bills	2022-04-06	1200
8	Rahul	Electricity Bill	2022-04-04	724
9	Ramesh	Water	2022-04-05	40
10	Rahul	Water	2022-04-06	40
11	Rahul	Plumbing work	2022-04-05	250
12	Rahul	Tubelight	2022-04-01	149
13	Ramesh	LPG	2022-04-05	1000
14	Rahul	Cab	2022-07-12	250
			Rahul paid	3497
			Ramesh paid	4798
			Rahul has to pay	650.5

Expenditure undertaken shows up in the list and gets added to the backend too

Expense Tracker

Add an expense ✕

Who paid?

Ramesh ⌄

For What?

Petrol

How much?

500

Close **Add expense**

#	Payee	Descriptio			Amount
1	Rahul	Bike Repai			1000
2	Rahul	Movie			1044
3	Ramesh	Vegetables			366
4	Rahul	Water			40
5	Ramesh	Grocery			192
6	Ramesh	Rice Bag			2000
7	Ramesh	Internet Bi			1200
8	Rahul	Electricity			724
9	Ramesh	Water			40
10	Rahul	Water	2022-04-06		40
11	Rahul	Plumbing work	2022-04-05		250
12	Rahul	Tubelight	2022-04-01		149
13	Ramesh	LPG	2022-04-05		1000
14	Rahul	Cab	2022-07-12		250
				Rahul paid	3497
				Ramesh paid	4798
				Rahul has to pay	650.5

Adding expenditure by second user Ramesh

localhost:3000

Expense Tracker

Add expense

#	Payee	Description	Date	Amount
1	Rahul	Bike Repair	2022-04-07	1000
2	Rahul	Movie	2022-04-05	1044
3	Ramesh	Vegetables	2022-04-01	366
4	Rahul	Water	2022-04-02	40
5	Ramesh	Grocery	2022-04-03	192
6	Ramesh	Rice Bag	2022-04-05	2000
7	Ramesh	Internet Bills	2022-04-06	1200
8	Rahul	Electricity Bill	2022-04-04	724
9	Ramesh	Water	2022-04-05	40
10	Rahul	Water	2022-04-06	40
11	Rahul	Plumbing work	2022-04-05	250
12	Rahul	Tubelight	2022-04-01	149
13	Ramesh	LPG	2022-04-05	1000
14	Rahul	Cab	2022-07-12	250
15	Ramesh	Petrol	2022-07-12	500
			Rahul paid	3497
			Ramesh paid	5298
			Rahul has to pay	900.5

Expenditure undertaken by the 2nd user also shows up with date and the amount

Screenshot of the calls made during application interaction

Code visible in editor:

```tsx
import { useState, useEffect, useRef, FormEvent } from "react";
import { Spinner, Alert, Container, Table, Button, Modal, Form } from 'react-bootstrap';
import { getItems, addItem } from "../services/items";
import IItem from "../models/IItems";

const ExpenseTracker = () => {
    const [items, setItems] = useState<IItem[]>([] as IItem[]);
    const [error, setError] = useState<Error | null>(null);
    const [loading, setLoading] = useState<boolean>(true);

    // 1. initiate backend call after first render
    useEffect(() => {
        const fetchItems = async () => {
            try {
                const items = await getItems();
                setItems(items); // 4. we are able to use the items
            } catch (error) {
                setError(error as Error);
            } finally {
                setLoading(false);
            }
```

Terminal output:

```
Home
http://localhost:4000

GET /db 200 2019.815 ms - -
GET /items 200 2023.172 ms - -
GET /items 304 2035.112 ms - -
GET /items 304 2032.652 ms - -
POST /items 201 2072.578 ms - 101
POST /items 201 2054.445 ms - 105
```

Backend calls