

JSON Server is the quickest and easiest way to get a 100% working real CRUD backend with zero backend coding.

Below is the **full guide + all files you need.**

□ **STEP 1 — Install JSON Server**

Run this in your terminal:

```
npm install -g json-server
```

If you're using `npx`:

```
npx json-server --watch db.json --port 5000
```

□ **STEP 2 — Create a `db.json` file**

Create a new file in your project root:

db.json

```
{
  "users": []
}
```

You can also pre-fill it with sample data if you want:

```
{
  "users": [
    { "id": 1, "name": "John Doe", "email": "john@gmail.com", "phone": "555-111" },
    { "id": 2, "name": "Sara Lee", "email": "sara@gmail.com", "phone": "555-222" }
  ]
}
```

□ **STEP 3 — Start the JSON Server**

Run this:

```
json-server --watch db.json --port 5000
```

You should see:

Resources

<http://localhost:5000/users>

```
F:\react-notes\react-crud>json-server --watch db.json --port 5000
--watch/-w can be omitted, JSON Server 1+ watches for file changes by default
JSON Server started on PORT :5000
Press CTRL-C to stop
Watching db.json...

(~^ ~ ^~)

Index:
http://localhost:5000/

Static files:
Serving ./public directory if it exists

Endpoints:
http://localhost:5000/users
```

This is your NEW real backend.

STEP 4 — Update your React app API URL

To this:

```
const API = "http://localhost:5000/users";
```

NOW CRUD WILL WORK PERFECTLY

- ADD works
 - UPDATE works
 - DELETE works
 - Data is saved into db.json
 - No more 500 errors
 - No API limitations
 - New records can be edited
-

□ STEP 5 — FULL WORKING React CRUD Code (with JSON Server)

Copy/paste this into your `UserCRUD.js`:

```
import React, { useEffect, useState } from "react";
import axios from "axios";

const API = "http://localhost:5000/users";

function UserCRUD() {
  const [users, setUsers] = useState([]);
  const [form, setForm] = useState({
    id: "",
    name: "",
    email: "",
    phone: ""
  });

  // LOAD USERS
  useEffect(() => {
    axios.get(API)
      .then(res => setUsers(res.data))
      .catch(err => console.log(err));
  }, []);

  // INPUT HANDLER
  const handleChange = (e) => {
    setForm({ ...form, [e.target.name]: e.target.value });
  };

  // ADD USER
  const handleAdd = (e) => {
    e.preventDefault();

    axios.post(API, {
      name: form.name,
      email: form.email,
      phone: form.phone
    })
      .then(res => {
        setUsers([...users, res.data]);
        setForm({ id: "", name: "", email: "", phone: "" });
      })
      .catch(err => console.log(err));
  };
};
```

```

// LOAD USER FOR EDIT
const handleEdit = (user) => {
  setForm({
    id: user.id,
    name: user.name,
    email: user.email,
    phone: user.phone
  });
};

// UPDATE USER
const handleUpdate = () => {
  if (!form.id) {
    alert("Please select a user to edit!");
    return;
  }

  axios.put(`${API}/${form.id}`, {
    name: form.name,
    email: form.email,
    phone: form.phone
  })
  .then(res => {
    setUsers(users.map(u => (u.id === form.id ? res.data : u)));
    setForm({ id: "", name: "", email: "", phone: "" });
  })
  .catch(err => console.log(err));
};

// DELETE USER
const handleDelete = (id) => {
  axios.delete(`${API}/${id}`)
  .then(() => setUsers(users.filter(u => u.id !== id)))
  .catch(err => console.log(err));
};

return (
  <div style={{ padding: 20 }}>
    <h2>React CRUD (with REAL Backend)</h2>

    { /* FORM */ }
    <form onSubmit={handleAdd}>
      <input
        name="name"
        placeholder="Name"
        value={form.name}
        onChange={handleChange}
      />

```

```

    <input
      name="email"
      placeholder="Email"
      value={form.email}
      onChange={handleChange}
    />
    <input
      name="phone"
      placeholder="Phone"
      value={form.phone}
      onChange={handleChange}
    />

    <button type="submit">Add</button>
    <button type="button" onClick={handleUpdate}>Update</button>
  </form>

  <hr />

  { /* TABLE */ }
  <table border="1" width="100%">
    <thead>
      <tr>
        <th>ID</th><th>Name</th><th>Email</th><th>Phone</th><th>Actions</th>
      </tr>
    </thead>
    <tbody>
      {users.map(u => (
        <tr key={u.id}>
          <td>{u.id}</td>
          <td>{u.name}</td>
          <td>{u.email}</td>
          <td>{u.phone}</td>
          <td>
            <button onClick={() => handleEdit(u)}>Edit</button>
            <button onClick={() => handleDelete(u.id)}>Delete</button>
          </td>
        </tr>
      ))}
    </tbody>
  </table>

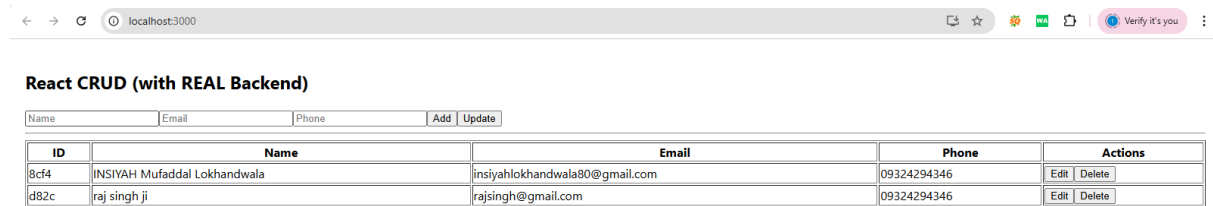
</div>
);
}

export default UserCRUD;

```

Output:-

npm start



localhost:3000

React CRUD (with REAL Backend)

Name Email Phone Add Update

ID	Name	Email	Phone	Actions
8cf4	INSIYAH Mufaddal Lokhandwala	insiyahlkhandwala80@gmail.com	09324294346	Edit Delete
d82c	raj singh ji	rajsingh@gmail.com	09324294346	Edit Delete