

SOURCE CODE

 server.js

```
Const express = require('express');
```

```
Const cors = require('cors'); const app = express();
```

```
App.use(cors()); app.use(express.json());
```

```
App.use(express.static('public'));
```

```
Let contacts = [
```

```
{ id: 1, name: "Vidhya", email: vidhya@gmail.com, phone: "9876543210" },
```

```
{ id: 2, name: "Karthik", email: karthik@gmail.com, phone: "9876500000" }
```

```
];
```

```
// Get all contacts
```

```
App.get('/api/contacts', (req, res) => {
```

```
Res.json(contacts);
```

```
});
```

```
// Add new contact
```

```
App.post('/api/contacts', (req, res) => { const newContact = { id: Date.now(), name: req.body.name,  
email:
```

```
Req.body.email, phone: req.body.phone
```

```
};
```

```
Contacts.push(newContact); res.json({ message: 'Contact added successfully', contact: newContact });
```

```
});
```

```
// Update contact
```

```
App.put('/api/contacts/:id', (req, res) => {
```

```
Const contactId = parseInt(req.params.id);
```

```
Const index = contacts.findIndex(c => c.id === contactId);
```

```
If (index !== -1) {
```

```
    Contacts[index] = { ...contacts[index], ...req.body };    res.json({ message: 'Contact updated', contact: contacts[index] });
```

```
  } else {
```

```
    Res.status(404).json({ message: 'Contact not found' });
```

```
  }
```

```
});
```

```
// Delete contact
```

```
App.delete('/api/contacts/:id', (req, res) => {  const contactId = parseInt(req.params.id);  contacts = contacts.filter(c => c.id !== contactId);  res.json({ message: 'Contact deleted successfully' });
```

```
});
```

```
Const PORT = 5000;
```

```
App.listen(PORT, () => console.log(`Server running on http://localhost:\${PORT}`));
```

```
 public/index.html
```

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8" />
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
```

```
<title>RESTful Contact Management API</title>
```

```
<link rel="stylesheet" href="style.css" />
```

```
</head>
```

```
<body>
```

```
<h1>Contact Management System</h1>
```

```
<div class="form-container">
```

```
<input type="text" id="name" placeholder="Enter Name" />
```

```
<input type="email" id="email" placeholder="Enter Email" />
```

```
<input type="text" id="phone" placeholder="Enter Phone" />
```

```
<button onclick="addContact()">Add Contact</button>
```

```
</div>
```

```
<h2>Contact List</h2>
```

```
<ul id="contactList"></ul>
```

```
<script src="script.js"></script> </body>
```

```
</html>
```

 public/script.js

```
Const apiURL = '/api/contacts';
```

```
Async function fetchContacts() {
```

```
Const res = await fetch(apiURL); const data = await res.json();
```

```
Const list = document.getElementById('contactList');
```

```
List.innerHTML = ""; data.forEach(contact => {
```

```
Const li = document.createElement('li');
```

```
li.innerHTML = `
```

```
<strong>${contact.name}</strong> - ${contact.email} - ${contact.phone}
```

```
<button onclick="deleteContact(${contact.id})">Delete</button>
```

```
`;
```

```
List.appendChild(li);
```

```
});
```

```
}
```

```
Async function addContact() {  const name = document.getElementById('name').value;  const email = document.getElementById('email').value;  const phone = document.getElementById('phone').value;
```

```
  If (!name || !email || !phone) {
```

```
    Alert('Please fill all fields');    return;
```

```
  }
```

```
  Await fetch(apiURL, {
```

```
    Method: 'POST',
```

```
    Headers: { 'Content-Type': 'application/json' },
```

```
    Body: JSON.stringify({ name, email, phone })
```

```
  });  document.getElementById('name').value = "";
```

```
Document.getElementById('email').value = ""; document.getElementById('phone').value = "";
```

```
fetchContacts();
```

```
}
```

```
Async function deleteContact(id) { await fetch(`${apiURL}/${id}`, { method: 'DELETE' });  
fetchContacts();
```

```
}
```

```
fetchContacts();
```

```
📁 public/style.css
```

```
Body { font-family: Arial, sans-serif;
```

```
Text-align: center; background-color:
```

```
#f4f4f4;
```

```
} h1 { color: #2d6cdf;
```

```
}
```

```
.form-container { margin: 20px;
```

```
}
```

```
Input { padding: 8px;
```

```
Margin: 5px; border: 1px solid #ccc; borderradius: 5px;
```

```
} button
```

```
{ padding: 8px 12px; background-color: #2d6cdf; color: white; border:
```

```
None; border-radius: 5px; cursor: pointer;
```

```
}
```

```
Button:hover { background-color: #1a4cad;
```

```
} ul { list-style: none;
```

```
Padding: 0;
```

```
} li { background: #fff; margin: 10px auto; padding: 10px; width: 300px; border-radius:
```

```
5px; box-shadow: 0 0 5px #ccc;
```