

## **Source Code**

# Front - end Code

## Index.html(signup page)

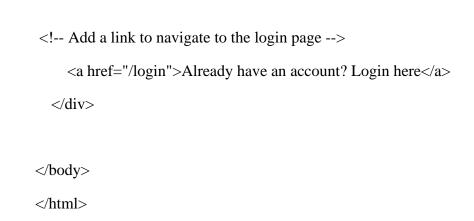
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Signup</title>
  <style>
    /* Paste your CSS code here */
    @import url("https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;
       500;600;700;800;900&display=swap");
    * {
     margin: 0;
     padding: 0;
     box-sizing: border-box;
     font-family: "Poppins", sans-serif;
    body {
     display: flex;
```

```
justify-content: center;
align-items: center;
min-height: 100vh;
background: #223243;
}
.container {
padding: 40px;
border-radius: 60px;
border: 6px solid #fff; /* Changed border color to white */
box-shadow: -5px -5px 15px rgba(255, 255, 255, 0.1),
5px 5px 15px rgba(0, 0, 0, 0.35),
inset -5px -5px 15px rgba(255, 255, 255, 0.1),
inset 5px 5px 15px rgba(0, 0, 0, 0.35);
max-width: 900px; /* Adjust this value based on your preference */
.container h1 {
color: #13d3da;
font-weight: 500;
letter-spacing: 0.1em;
text-align: center;
margin-bottom: 20px;
.container form input {
padding: 15px;
border: none;
```

```
width: 100%;
background: #223243; /* Changed background color to white */
border: 1px solid rgba(0, 0, 0, 0.1);
color:white; /* Changed text color to dark */
font-weight: 600;
      border-radius: 25px;
      font-size: 1.5em;
      margin-bottom: 20px;
      outline: none;
     .container form button {
      padding: 15px;
      border: none;
      width: 100%;
      background: #00dfc4;
      color: #223243;
      font-weight: 500;
     border-radius: 25px;
      font-size: 1em;
      cursor: pointer;
     transition: background 0.3s ease-in-out;
     }
     .container form button:hover {
     background: #00c4ac;
```

```
.container a {
     color: #fff;
      text-decoration: none;
      text-align: center;
     display: block;
     .container a:hover {
      text-decoration: underline;
     }
     .container form input:hover,
.container form button:hover {
 background: #00c4ac;
box-shadow: 0 0 10px rgba(0, 0, 0, 0.2);
.container form input {
 font-size: 1.2em;
}
.container form button {
 font-size: 1.2em;
.container form input:valid {
border-color: #00dfc4;
```

```
.container form input:invalid {
 border-color:white;
}
.container form input[type="submit"] {
 transition: background 0.3s ease-in-out, box-shadow 0.3s ease-in-out;
}
.container a {
 font-size: 1em;
}
.container a:hover {
 text-decoration: underline;
}
  </style>
</head>
<body>
  <div class="container">
    <h1>Welcome to Contact Management System</h1> <!-- Added heading -->
    <form action="/signup" method="POST">
       <input type="text" name="name" placeholder="Name" required><br>
       <input type="tel" name="mobile" placeholder="Mobile Number" required><br>
       <input type="email" name="email" placeholder="Email" required><br>
       <input type="password" name="password" placeholder="Password" required><br>
       <button type="submit">Sign Up</button>
    </form>
```



#### Login.html(login page)

```
<!DOCTYPE html>
       <html lang="en">
       <head>
         <meta charset="UTF-8">
         <meta name="viewport" content="width=device-width, initial-scale=1.0">
         <title>Login</title>
         <style>
                 @import
url("https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;500;
       600;700;800;900&display=swap");
       * {
        margin: 0;
        padding: 0;
        box-sizing: border-box;
        font-family: "Poppins", sans-serif;
       }
       body {
        display: flex;
        justify-content: center;
        align-items: center;
        min-height: 100vh;
        background: #223243;
       .container {
        padding: 50px;
        border-radius: 60px;
        border: 6px solid #fff; /* Changed border color to white */
        box-shadow: -5px -5px 15px rgba(255, 255, 255, 0.1),
```

```
5px 5px 15px rgba(0, 0, 0, 0.35),
  inset -5px -5px 15px rgba(255, 255, 255, 0.1),
  inset 5px 5px 15px rgba(0, 0, 0, 0.35);
max-width: 600px; /* Adjust this value based on your preference */
.container h1 {
color: #13d3da;
font-weight: 500;
letter-spacing: 0.1em;
text-align: center;
margin-bottom: 20px;
.container form input {
padding: 15px;
border: none;
width: 100%;
background: #223243; /* Changed background color to white */
border: 1px solid rgba(0, 0, 0, 0.1);
color:white; /* Changed text color to dark */
font-weight: 600;
border-radius: 25px;
font-size: 1.5em;
margin-bottom: 20px;
outline: none;
.container form button {
padding: 15px;
border: none;
 width: 100%;
```

```
background: #00dfc4;
color: #223243;
font-weight: 500;
border-radius: 25px;
font-size: 1em;
cursor: pointer;
transition: background 0.3s ease-in-out;
       .container form button:hover {
        background: #00c4ac;
       .container a {
        color: #fff;
        text-decoration: none;
        text-align: center;
        display: block;
       .container a:hover {
        text-decoration: underline;
       .container form input:hover,
       .container form button:hover {
        background: #00c4ac;
        box-shadow: 0 0 10px rgba(0, 0, 0, 0.2);
       .container form input {
        font-size: 1.2em;
```

```
.container form button {
 font-size: 1.2em;
.container form input:valid {
 border-color: #00dfc4;
.container form input:invalid {
 border-color:white;
}
.container form input[type="submit"] {
 transition: background 0.3s ease-in-out, box-shadow 0.3s ease-in-out;
}
.container a {
 font-size: 1em;
}
.container a:hover {
 text-decoration: underline;
}
/* CSS for captcha */
.captcha {
  margin-bottom: 20px;
  text-align: center;
  font-size: 1.5em;
  font-weight: bold;
  cursor: pointer;
  background-color: #f0f0f0;
```

```
border-radius: 5px;
  padding: 10px;
  width: 200px;
  display: inline-block;
  transition: background-color 0.3s ease;
.captcha:hover {
  background-color: #e0e0e0;
}
#captcha-input {
  margin-top: 10px;
  padding: 10px;
  font-size: 1em;
  border: 1px solid #ccc;
  border-radius: 5px;
  width: 200px;
}
  </style>
</head>
<body>
  <div class="container">
    <h1>Welcome to Contact Management System</h1>
    <form id="loginForm" action="/login" method="POST">
       <input type="text" name="name" placeholder="Name" required><br>
       <input type="password" name="password" placeholder="Password" required><br>
       <!-- Display captcha -->
       <div class="captcha" id="captcha-container"></div>
       <input type="text" id="captcha-input" placeholder="Enter Captcha" required><br>
```

```
<button type="submit" id="loginBtn" onclick="login()">Login</button>
           </form>
            <a href="/">Don't have an account? Sign Up here</a>
         </div>
         <script>
           // Function to generate random captcha
           function generateCaptcha(length) {
                                                    characters
              const
'ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789';
              let captcha = ";
              for (let i = 0; i < length; i++) {
                captcha += characters.charAt(Math.floor(Math.random() * characters.length));
              }
              return captcha;
           // Function to update captcha in the HTML
           function updateCaptcha() {
              const captchaContainer = document.getElementById('captcha-container');
              const captcha = generateCaptcha(6); // Change the length of captcha as per your
preference
              captchaContainer.innerText = captcha;
            }
           // Execute this function after the page is loaded
           document.addEventListener("DOMContentLoaded", function() {
              updateCaptcha(); // Generate initial captcha
              // Add event listener to regenerate captcha on click
```

```
document.getElementById('captcha-container').addEventListener('click', updateCaptcha);
    });
    // Add event listener for form submission
document.getElementById("loginForm").addEventListener("submit", function(event) {
  event.preventDefault(); // Prevent default form submission
  // Validate captcha
  const enteredCaptcha = document.getElementById('captcha-input').value;
  const generatedCaptcha = document.getElementById('captcha-container').innerText;
  if (enteredCaptcha === generatedCaptcha) {
    // Redirect to cms.html after successful login
    window.location.href = "cms.html";
  } else {
    alert("Captcha incorrect. Please try again.");
    // Regenerate captcha
    updateCaptcha();
    // Clear captcha input
    document.getElementById('captcha-input').value = ";
  }
});
  </script>
```

# **Cms.html(Contact management system)**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Contact Management System</title>
  <style>
    /* Your existing CSS styles */
    body {
  font-family: Arial, sans-serif;
  margin: 0;
  padding: 0;
}
nav {
  background-color: #333;
  color: #fff;
  padding: 40px;
  font-size: 22px; /* Adjust the font size as needed */
}
nav ul {
  list-style-type: none;
  margin: 0;
  padding: 0;
nav ul li {
  display: inline;
  margin-right: 10px;
```

```
nav ul li a {
  color: #fff;
  text-decoration: none;
  padding: 10px 20px; /* Add padding to create button-like appearance */
  border-radius: 5px; /* Add rounded corners */
  background-color: #555; /* Add background color */
  transition: background-color 0.3s; /* Add transition effect for hover */
nav ul li a:hover {
  background-color: #777; /* Change background color on hover */
}
nav ul li a.active {
  font-weight: bold;
}
h1 {
  text-align: center;
  margin-top: 20px;
}
#contactForm {
  max-width: 600px;
  margin: 0 auto;
  padding: 20px;
  background-color: #fff;
  border-radius: 10px;
  box-shadow: 0 0 20px rgba(0, 0, 0, 0.1);
  margin-top: 20px;
```

```
label {
  display: block;
  margin-bottom: 5px;
  font-weight: bold;
input[type="text"],
input[type="email"],
input[type="tel"],
textarea {
  width: 100%;
  padding: 10px;
  margin-bottom: 10px;
  border: 1px solid #ccc;
  border-radius: 5px;
  font-size: 16px;
  outline: none;
input[type="submit"],
button {
  width: 100%;
  padding: 10px;
  border: none;
  border-radius: 5px;
  background-color: #007bff;
  color: #fff;
  font-size: 18px;
  cursor: pointer;
  transition: background-color 0.3s;
input[type="submit"]:hover,
button:hover {
```

```
background-color: #0056b3;
}
#searchContainer {
  text-align: center;
  margin-top: 20px;
#search {
  padding: 10px;
  width: 60%;
  border-radius: 5px;
  border: 1px solid #ccc;
  font-size: 16px;
  outline: none;
}
ul {
  list-style-type: none;
  padding: 0;
  margin: 20px auto;
  max-width: 800px;
}
li {
  background-color: #fff;
  padding: 20px;
  margin-bottom: 20px;
  border-radius: 10px;
  box-shadow: 0 0 20px rgba(0, 0, 0, 0.1);
  transition: transform 0.3s, box-shadow 0.3s;
li:hover {
```

```
transform: translateY(-5px);
  box-shadow: 0 0 30px rgba(0, 0, 0, 0.2);
}
li button {
  padding: 8px 16px;
  background-color: #dc3545;
  color: #fff;
  border: none;
  border-radius: 5px;
  cursor: pointer;
  transition: background-color 0.3s;
li button.edit {
  background-color: #ffc107;
  margin-right: 10px;
li button.delete {
  background-color: #dc3545;
}
li button:hover {
  opacity: 0.8;
  </style>
  <script>
     function addContact(event) {
       event.preventDefault();
       var name = document.getElementById('name').value;
       var email = document.getElementById('email').value;
       var phoneNumber = document.getElementById('phoneNumber').value;
```

```
var address = document.getElementById('address').value;
       if (!email.endsWith('@gmail.com')) {
          alert("Email address must end with '@gmail.com'.");
          return;
       }
       var contact = {
          name: name,
          email: email,
          phoneNumber: phoneNumber,
          address: address
       };
       // Send POST request to server to save contact
       fetch('/add-contact', {
          method: 'POST',
          headers: {
            'Content-Type': 'application/json',
          },
          body: JSON.stringify(contact),
       })
       .then(response => response.json())
       .then(data => {
          console.log('Success:', data);
         // Optionally, you can update the UI or perform any other actions upon successful
saving
          // For example, you can reset the form and update the contact list
          document.getElementById('addContactForm').reset();
          updateContactList(); // Assuming you have a function to update the contact list
       })
       .catch((error) => \{
          console.error('Error:', error);
          // Handle error, if any
```

```
alert('Failed to save contact. Please try again.');
      });
    }
  </script>
</head>
<body>
  <nav>
    ul>
      <a href="#" onclick="showAddContactForm()">Add Contact</a>
      <a href="#" onclick="displayAllContacts()">Display Contacts</a>
      <a href="#" onclick="showSearchBar()">Search Contact</a>
    </nav>
  <h1>Contact Management System</h1>
  <div id="contactForm" style="display: none;">
    <form id="addContactForm" onsubmit="addContact(event)">
      <label for="name">Name:</label><br>
      <input type="text" id="name" name="name" required><br>
      <label for="email">Email:</label><br>
      <input type="email" id="email" name="email" required><br>
      <label for="phoneNumber">Phone Number:</label><br>
      <input type="tel" id="phoneNumber" name="phoneNumber" required><br>
      <label for="address">Address:</label><br>
      <textarea id="address" name="address" required></textarea><br>
      <button type="submit" id="submitBtn">Add Contact</button>
             <button id="updateBtn" style="display: none;"</pre>
      onclick="updateContact()">Update Contact</button>
      <button id="cancelBtn" style="display: none;"</pre>
```

```
onclick="cancelEdit()">Cancel</button>
     </form>
  </div>
  <div id="searchContainer" style="display: none;">
    <label for="search">Search Contact:</label><br>
    <input type="text" id="search" oninput="searchContacts()" placeholder="Enter name to</pre>
search...">
  </div>
  ul id="contactList">
  <script>
    var contacts = JSON.parse(localStorage.getItem('contacts')) || [];
    // Your existing JavaScript functions for displaying, editing, deleting contacts, etc.
    var contacts = JSON.parse(localStorage.getItem('contacts')) || [];
    function addContact(event) {
       event.preventDefault();
       var name = document.getElementById('name').value;
       var email = document.getElementById('email').value;
       var phoneNumber = document.getElementById('phoneNumber').value;
       var address = document.getElementById('address').value;
       if (!email.endsWith('@gmail.com')) {
         alert("Email address must end with '@gmail.com'.");
         return;
       var contact = {
         name: name,
```

```
email: email,
           phoneNumber: phoneNumber,
           address: address
         };
        contacts.push(contact);
        localStorage.setItem('contacts', JSON.stringify(contacts));
        document.getElementById('addContactForm').reset();
        // Check if "Display Contacts" is selected
        if (document.querySelector('nav ul li:nth-child(2) a').classList.contains('active')) {
           updateContactList();
         }
function deleteContact(index) {
  contacts.splice(index, 1);
  localStorage.setItem('contacts', JSON.stringify(contacts));
  updateContactList();
}
function editContact(index) {
  var contact = contacts[index];
  document.getElementById('name').value = contact.name;
  document.getElementById('email').value = contact.email;
  document.getElementById('phoneNumber').value = contact.phoneNumber;
  document.getElementById('address').value = contact.address;
  document.getElementById('submitBtn').style.display = 'none';
  document.getElementById('updateBtn').style.display = 'block';
  document.getElementById('cancelBtn').style.display = 'block';
  document.getElementById('updateBtn').setAttribute('data-index', index);
```

```
function updateContact() {
  var index = parseInt(document.getElementById('updateBtn').getAttribute('data-index'));
  var name = document.getElementById('name').value;
  var email = document.getElementById('email').value;
  var phoneNumber = document.getElementById('phoneNumber').value;
  var address = document.getElementById('address').value;
  if (!email.endsWith('@gmail.com')) {
    alert("Email address must end with '@gmail.com'.");
    return;
  var contact = {
    name: name,
    email: email,
    phoneNumber: phoneNumber,
    address: address
  };
  contacts[index] = contact;
  localStorage.setItem('contacts', JSON.stringify(contacts));
  updateContactList();
  document.getElementById('addContactForm').reset();
  document.getElementById('submitBtn').style.display = 'block';
  document.getElementById('updateBtn').style.display = 'none';
  document.getElementById('cancelBtn').style.display = 'none';
}
function cancelEdit() {
  document.getElementById('addContactForm').reset();
  document.getElementById('submitBtn').style.display = 'block';
  document.getElementById('updateBtn').style.display = 'none';
```

```
document.getElementById('cancelBtn').style.display = 'none';
     }
    function searchContacts() {
       var searchText = document.getElementById('search').value.toLowerCase();
       var filteredContacts = contacts.filter(function(contact) {
         return contact.name.toLowerCase().includes(searchText);
       });
       updateContactList(filteredContacts);
    function displayAllContacts() {
       updateContactList();
       document.getElementById('contactForm').style.display = 'none';
       document.getElementById('searchContainer').style.display = 'none';
       // Add active class to Display Contacts option
       document.querySelector('nav ul li:nth-child(2) a').classList.add('active');
     }
    function showAddContactForm() {
       document.getElementById('contactForm').style.display = 'block';
       document.getElementById('searchContainer').style.display = 'none';
       document.getElementById('contactList').innerHTML = ";
       // Remove active class from other options
       document.querySelector('nav ul li:nth-child(1) a').classList.remove('active');
       document.querySelector('nav ul li:nth-child(3) a').classList.remove('active');
    function showSearchBar() {
       document.getElementById('searchContainer').style.display = 'block';
       document.getElementById('contactForm').style.display = 'none';
       document.getElementById('contactList').innerHTML = ";
       // Remove active class from other options
```

```
document.querySelector('nav ul li:nth-child(1) a').classList.remove('active');
       document.querySelector('nav ul li:nth-child(2) a').classList.remove('active');
     }
    function updateContactList(filteredContacts) {
       var contactList = document.getElementById('contactList');
       contactList.innerHTML = ";
       var contactsToDisplay = filteredContacts || contacts;
       contactsToDisplay.forEach(function(contact, index) {
         var contactItem = document.createElement('li');
         contactItem.innerHTML = `
            <strong>Name:</strong> ${contact.name}<br>
            <strong>Email:</strong> ${contact.email}<br>
            <strong>Phone Number:</strong> ${contact.phoneNumber}<br>
            <strong>Address:</strong> ${contact.address}<br>
            <button class="edit" onclick="editContact(${index})">Edit</button>
            <button class="delete" onclick="deleteContact(${index})">Delete</button><br><br>
         contactList.appendChild(contactItem);
       });
    function editContact(index) {
       var contact = contacts[index];
       var newName = prompt("Enter new name", contact.name);
       var newEmail = prompt("Enter new email", contact.email);
       var newPhoneNumber = prompt("Enter new phone number", contact.phoneNumber);
       var newAddress = prompt("Enter new address", contact.address);
       if (newName !== null && newEmail !== null && newPhoneNumber !== null &&
newAddress !== null) {
         contacts[index] = {
```

### **Back - end Code**

### App.js(Connecting with mongo db)

```
const express = require('express');
const bodyParser = require('body-parser');
const mongoose = require('mongoose');
const path = require('path'); // Import path module
const app = express();
const PORT = 3000;
// Connect to MongoDB
mongoose.connect('mongodb://localhost:27017/signup-login-db', { useNewUrlParser: true,
useUnifiedTopology: true });
const db = mongoose.connection;
// Define schema for contact
const contactSchema = new mongoose.Schema({
  name: { type: String, required: true },
  email: { type: String, required: true },
  phoneNumber: String,
  address: String
});
```

```
// Create model for contact
const Contact = mongoose.model('Contact', contactSchema);
// Define schema for user
const userSchema = new mongoose.Schema({
  name: String,
  mobile: String,
  email: String,
  password: String
});
// Create model for user
const User = mongoose.model('User', userSchema);
// Middleware
app.use(bodyParser.urlencoded({ extended: true }));
app.use(express.json());
// Serve static files from the 'public' directory
app.use(express.static(path.join(__dirname, 'public'))); // Serve files from 'public' directory
// Routes
```

```
app.get('/', (req, res) => {
  res.sendFile(path.join(__dirname, 'index.html')); // Serve index.html from the root directory
});
// Signup route
app.post('/signup', (req, res) => {
  const { name, mobile, email, password } = req.body;
  // Check if email already exists
  User.findOne({ email: email }).exec()
  .then(user => {
     if (user) {
       res.status(400).send('Email already exists');
     } else {
       // Create new user
       const newUser = new User({
          name: name,
          mobile: mobile,
          email: email,
         password: password
       });
       newUser.save()
```

```
.then(() => {
                // Redirect to login page after successful signup
             res.redirect('/login');
          })
          .catch(err => {
             console.error(err);
             res.status(500).send('Error occurred while signing up');
          });
     }
  })
  .catch(err => {
     console.error(err);
     res.status(500).send('Error occurred while checking email');
  });
});
// Login route
app.post('/login', (req, res) => {
  const { email, password } = req.body;:
  // Check if a user with the provided email and password exists in the database
  User.findOne({ email: email, password: password }, (err, user) => {
```

```
if (err) {
       // Handle any errors
       console.error(err);
       res.status(500).send('Internal Server Error');
     } else if (user) {
       // If user is found, login is successful, redirect to cms.html
       res.send('<script>window.open("/cms.html", "_blank");</script>'); // Open cms.html
in a new tab
     } else {
       // If user is not found or password is incorrect, redirect back to login page
       res.redirect('/login');
     }
  });
});
// Add contact route
app.post('/add-contact', (req, res) => {
  const { name, email, phoneNumber, address } = req.body;
  // Create a new contact instance
  const newContact = new Contact({
     name,
```

```
email,
     phoneNumber,
     address
  });
  // Save the contact to MongoDB
  newContact.save((err, savedContact) => {
     if (err) {
       console.error('Error saving contact:', err);
       return res.status(500).json({ error: "Failed to save contact", details: err });
     }
     console.log('Contact saved successfully:', savedContact);
     res.status(200).json({ message: "Contact saved successfully", contact: savedContact });
   });
});
// Serve login page
app.get('/login', (req, res) => {
  res.sendFile(path.join(__dirname, 'login.html')); // Serve login.html from the root directory
});
// Serve cms.html
```

```
app.get('/cms.html', (req, res) => {
    res.sendFile(path.join(__dirname, 'public', 'cms.html')); // Serve cms.html from the 'public'
directory
});

// Start server

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

