# **Customer Management System – Frontend -User Guide**

# Frontend - React.js, Tailwind CSS with JWT Authentication

# **React CMS Setup and Run Guide**

## ◆ 1. Clone the Project from GitHub

Open a terminal and run:

```
git clone https://github.com/SheikGH/CMS React Frontend.git
```

#### Example:

git clone https://github.com/SheikGH/CMS React Frontend.git

### ◆ 2. Navigate to the Project Folder

cd CMS React Frontend

## ♦ 3. Create and Configure .env File

In the root of the project (inside CMS React Frontend /), create a file named .env if it doesn't already exist.

#### Add the following line to .env:

```
REACT APP API URL=https://localhost:7067/api
```

This will make sure your React app communicates with the correct backend API.

## **♦ 4. Install Node.js (if not already installed)**

Make sure you have Node.js (v14+ or v16+) and npm installed.

#### To check:

```
node -v
npm -v
```

To install: <a href="https://nodejs.org/">https://nodejs.org/</a>

# **♦** 5. Install Project Dependencies

npm install

This will install all required packages listed in package.json.

### **♦** 6. Start the React Development Server

```
npm start
```

This will start your React app at:

http://localhost:3000

## **♦ 7. Make Sure Backend Is Running**

Ensure your .NET Core API project is running at:

```
https://localhost:7067/swagger/index.html
```

If you're using Visual Studio:

- Set the API project as Startup Project
- Press F5 or click Start Debugging

## **♦ 8. Common Pages and Actions**

Page	Path	Description
Register Page	/register	Add new customer (registers user)
Login Page	/login	Login with JWT token, saved in localStorage
Customer List Page	/customers	View, Edit, Delete customer records
Logout	-	Clears token, redirects to Login page

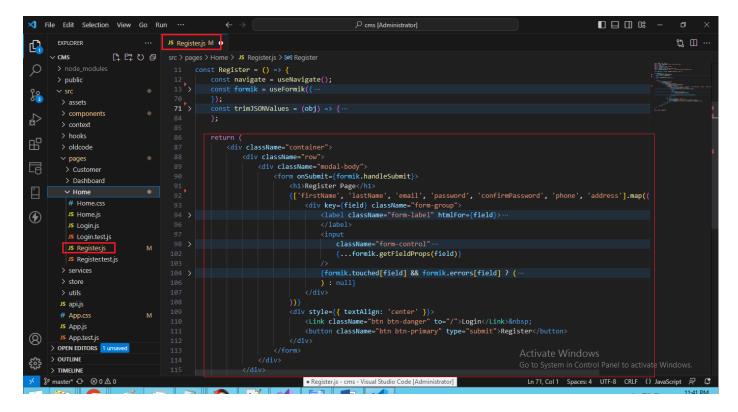
## $\square$ Troubleshooting Tips

• If you get **CORS errors**, make sure your .NET backend has CORS enabled:

• If .env changes are not reflected, restart the server after editing the .env file.

# Frontend - React.js, Tailwind CSS with JWT Authentication

# 



### **Features:**

- Add a new customer with proper form validation.
- Submit valid customer data to the backend API and store it in the database.

### **✓ U** Validations:

- Required fields: First Name, Last Name, Email, Phone, Address, Password
- Email format check
- **Password strength:** Example: At least 6–8 characters, with uppercase, lowercase, number, and special character.

### $\checkmark \square$ Flow:

- 1. User fills out the form.
- 2. If any field is invalid  $\rightarrow$  show validation errors.
- 3. If all fields are valid  $\rightarrow$  POST request to API (e.g., /api/register).
- 4. On success  $\rightarrow$  redirect to Login page or show success message.

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	Customer Management System - 2023-2024, All Rights Reserved	Go to System in Control Panel to activate Windows.
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React App	x + st:3000/register  Customer Management System  Register Page First Name: Abdul Last Name: Rahman Email: abduLrahman@gmail.com  Password: Confirm Password: Phone: 0455454545  Address: Dubai	タロタか * ロ S  Activate Windows

2. Login Page: http://localhost:3000/login

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                                                    const Login = ({ setToken, setUserName }) => {
  const navigate = useNavigate();
œ
          > oldcode
           > Customer
                                                      return (
<div className="container"</pre>
           > Dashboard
                                                            <div className="row">
    <div className="modal-body">
        <form onSubmit={handleSubmit(onSubmit)}>
                                                                   <div className="form-group"
<h1>Login Page</h1>
        JS Login.js
            JS Login.test.js
            JS Register.js
            JS Register.test.js
                                                                   <div className="form-group">
    <label className="form-label">Email:</label>
          > services
          > store
                                                                       type="email"
placeholder="Email'
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```

## **Features:**

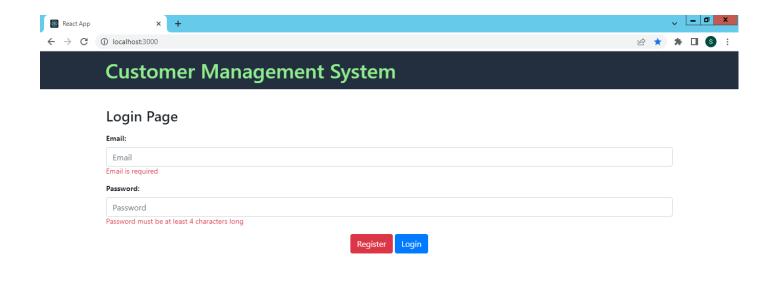
- Authenticate user using email and password.
- Receive JWT from API and store in localStorage.

### $\checkmark$ Validations:

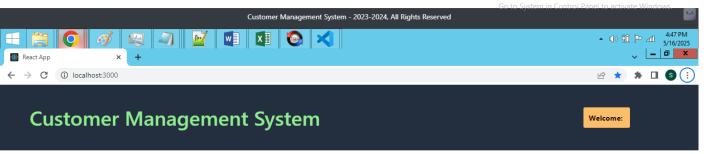
- Email is required and must be valid.
- Password is required.

### $\checkmark \square$ Flow:

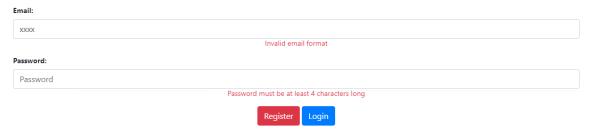
- 1. User enters login credentials.
- 2. If invalid format  $\rightarrow$  show client-side validation errors.
- 3. If wrong credentials  $\rightarrow$  show API error message.
- 4. If credentials are correct:
  - Backend returns JWT token.
  - o Store token in localStorage.
  - o Redirect to /customer-list.



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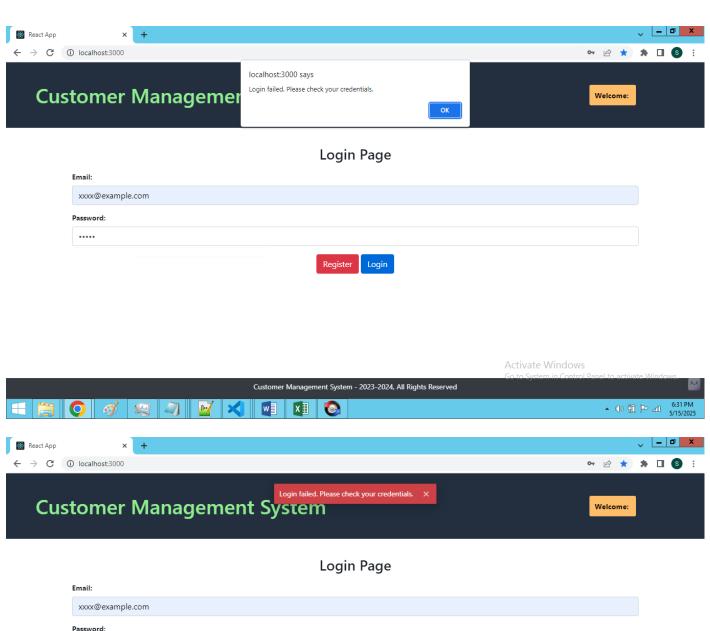


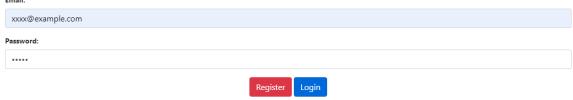
## Login Page



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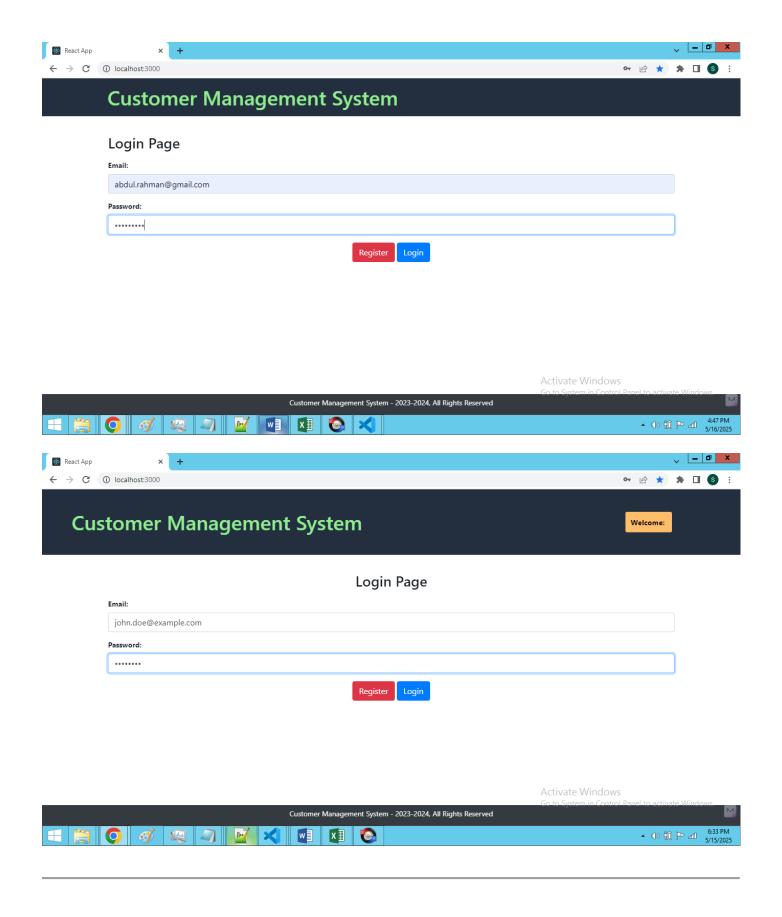






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                                                                   <div className='modal-body' style={{ textAlign: 'center' }}>
                                                                             <div>Loading customers...</div>
                                                                             > oldcode
                                                                                              requestSort('firstName')}>First Name
                                                                                            cth onClick={() => requestSort('lastName')>Last Name requestSort('email')}>Email
 requestSort('email')}>Phone
 requestSort('phone')}>Phone
 requestSort('address')}>Address

            # Customer.css
        JS Customer.js
           > Dashboard
(7)
                                                                                            Actions
                                                                                                  {user.customerId}
                                                                                                  <EditableText onChange={value => onChangeHandler(user.customerId, 'firstName', )
          JS App.test.js
                                                                                                  <EditableText onChange={value => onChangeHandler(user.customerId, 'lastName', vi
<EditableText onChange={value => onChangeHandler(user.customerId, 'email', value)
          JS axiosConfig.js
                                                                                                  🔓 logo.svg
                                                                                                       <Button intent='primary' onClick={() => updateUser(user.customerId)}>Update</but
<Button intent='danger' onClick={() => deleteUser(user.cuyffonerId)}>Delete</Button</pre>
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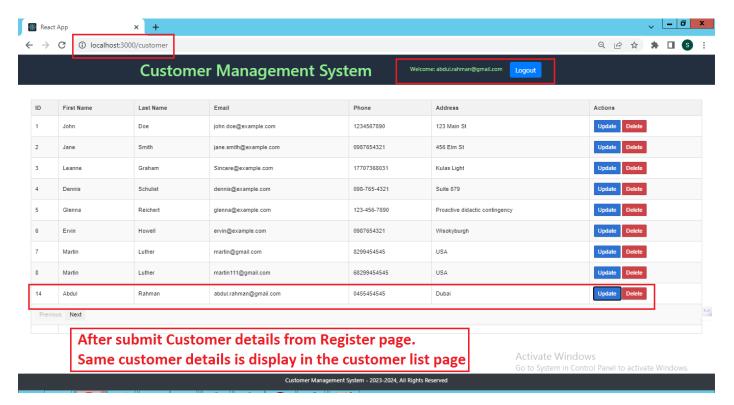
### **Features:**

- View, edit, delete customer.
- Require JWT token to access.

## **√** Functionality:

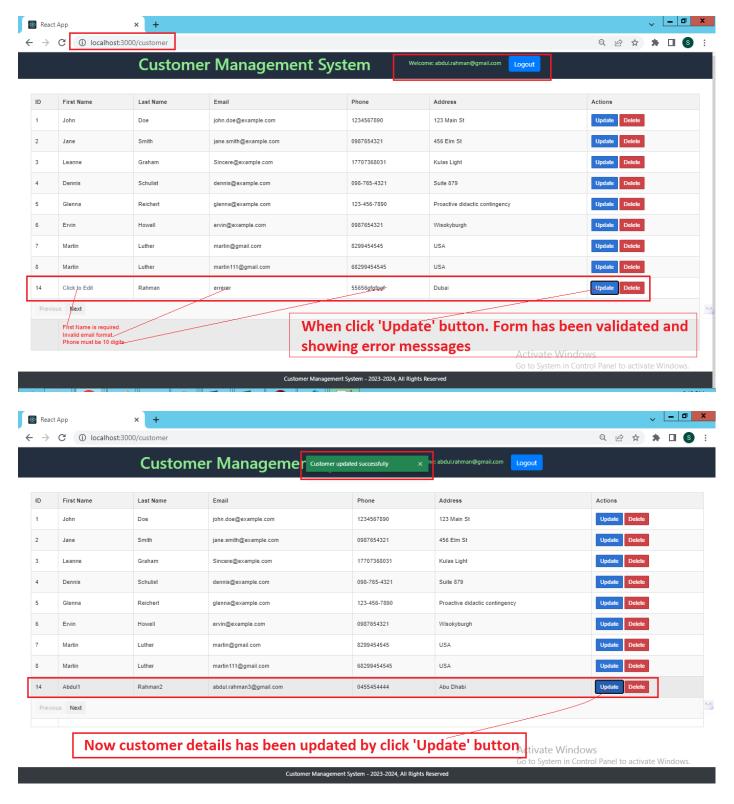
#### ☐ View Customer:

- Fetch data from /api/customers using JWT token in headers.
- Display in table format.



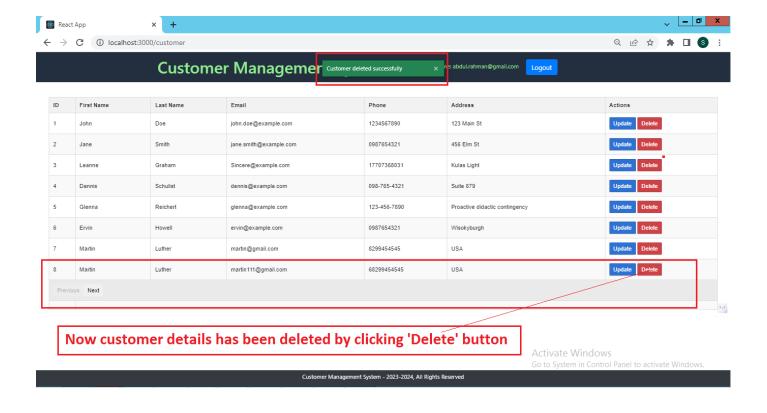
#### ☐ Edit Customer:

- Click on "Edit" → Inline form or Modal.
- Validate fields (same as Register).
- On valid input, PUT request to API.
- On success, reload or refresh list.



#### ☐ Delete Customer:

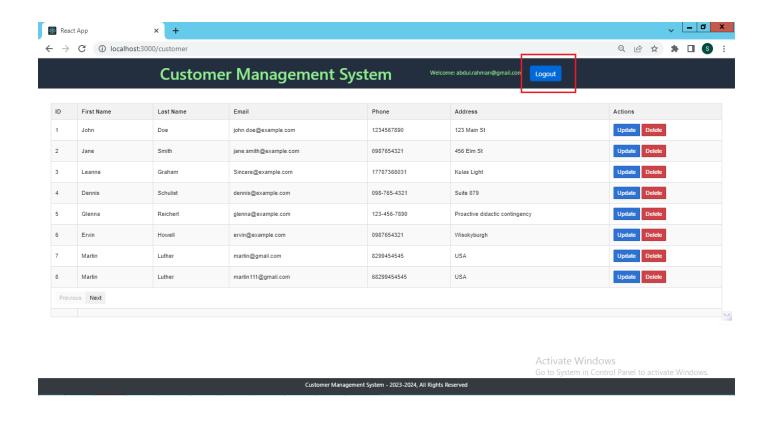
- Click "Delete" → confirmation prompt.
- Send DELETE request with customer ID.
- On success, remove entry from table.

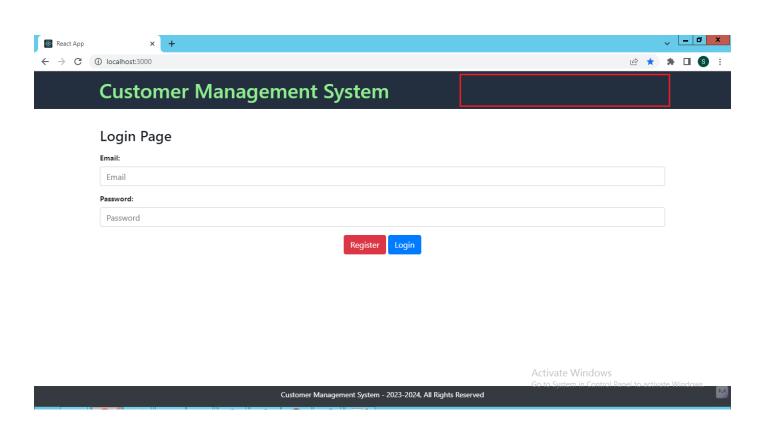


# **♦ 4. Logout**

### $\checkmark \square$ Flow:

- Click Logout → localStorage.removeItem('token')
- Redirect to /login





# Sample API Interaction Flow

**Register API:** 

```
POST /api/register
{
   "firstName": "Abdul",
   "lastName": "Rahman",
   "email": "abdul.rahman@gmail.com",
   "password": "Abdul@123",
   "phone": "9876543210",
   "address": "Sharjah"
}
```

# **Login API:**

```
POST /api/login
{
   "email": "abdul.rahman@gmail.com",
   "password": "Abdul@123"
}
Response:
{
   "token": "eyJhbGciOiJIUzI1NiIsInR..."
}
```

## **Authenticated Request:**

```
GET /api/customers
Headers: { Authorization: `Bearer ${token}` }
```

# **Summary Table**

Page	Validations	API Call	On Success
Register	Required fields, email, phone, password	POST /register	Show success, go to Login
Login	Required fields, invalid credentials	IPUST / LOGIN	Store JWT, go to Customer List
Customer List	Protected route via token	GET /customers	Render customer data in table
Edit Customer	Same validations as register	PUT /customers/:id	Update data in UI
Delete Customer	Click delete → confirm	DELETE /customers/:id	Remove from list
Logout	Clear token, redirect	N/A	Go to Login page