AngularJS Simple CRUD Application

# Step 1: Setup the AngularJS Environment

Before you start, make sure you have AngularJS included in your project. You can include it via a CDN in your HTML file:

<!DOCTYPE html>  
 <html>  
 <head>  
 <title>AngularJS Simple CRUD Application</title>  
 <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>  
 </head>  
 <body>  
 <!-- AngularJS Application will be here -->  
 </body>  
 </html>

# Step 2: Create the AngularJS App Module and Controller

Inside the `<body>` tag, add an AngularJS app and a controller. This will be the core where we define our CRUD operations.

<div ng-app="userApp" ng-controller="UserController">  
 <!-- CRUD Application will be implemented here -->  
 </div>  
  
 <script>  
 // Define the AngularJS application module  
 var app = angular.module('userApp', []);  
  
 // Define the controller  
 app.controller('UserController', function($scope) {  
 $scope.users = [  
 {id: 1, name: 'John Doe', email: 'john@example.com'},  
 {id: 2, name: 'Jane Doe', email: 'jane@example.com'}  
 ];  
  
 // CRUD operations will be implemented here  
 });  
 </script>

# Step 3: Implementing CRUD Operations

Now, inside the `UserController`, we can implement the CRUD functions. This example includes functions for adding, reading, updating, and deleting users.

$scope.addUser = function() {  
 $scope.users.push({  
 id: $scope.users.length + 1,  
 name: $scope.newUser.name,  
 email: $scope.newUser.email  
 });  
 $scope.newUser.name = '';  
 $scope.newUser.email = '';  
 };  
  
 $scope.editUser = function(index) {  
 $scope.editingUser = angular.copy($scope.users[index]);  
 $scope.editingIndex = index;  
 };  
  
 $scope.updateUser = function() {  
 $scope.users[$scope.editingIndex] = angular.copy($scope.editingUser);  
 $scope.editingUser = {};  
 };  
  
 $scope.deleteUser = function(index) {  
 $scope.users.splice(index, 1);  
 };

# Step 4: Adding the HTML Form and Display Table

To make this application interactive, add HTML forms for adding and updating users, and a table to display them.

<form ng-submit="addUser()">  
 <input type="text" ng-model="newUser.name" placeholder="Name" required>  
 <input type="email" ng-model="newUser.email" placeholder="Email" required>  
 <button type="submit">Add User</button>  
 </form>  
  
 <table>  
 <tr>  
 <th>Name</th>  
 <th>Email</th>  
 <th>Actions</th>  
 </tr>  
 <tr ng-repeat="user in users">  
 <td>{{ user.name }}</td>  
 <td>{{ user.email }}</td>  
 <td>  
 <button ng-click="editUser($index)">Edit</button>  
 <button ng-click="deleteUser($index)">Delete</button>  
 </td>  
 </tr>  
 </table>  
  
 <!-- Form for editing a user -->  
 <div ng-if="editingUser">  
 <form ng-submit="updateUser()">  
 <input type="text" ng-model="editingUser.name" placeholder="Name" required>  
 <input type="email" ng-model="editingUser.email" placeholder="Email" required>  
 <button type="submit">Update User</button>  
 </form>  
 </div>

# Step 5: Running the Application

To run this application, simply place all the code in an HTML file and open it in a web browser. Ensure your browser allows running JavaScript and accessing local files if you're opening the file directly without a server.