Step-by-Step Guide: AngularJS Login Form with Validation

**Step 1: Set Up the Environment**

Make sure you have a web server to run your HTML file. Include AngularJS in your project, which you can do via CDN.

**Step 2: Create the HTML File**

Create an HTML file (e.g., login.html) with the following content:

<!DOCTYPE html>  
<html>  
<head>  
 <title>Login Form</title>  
 <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>  
 <script src="loginApp.js"></script>  
</head>  
<body ng-app="loginApp" ng-controller="loginController">  
  
 <h2>Login Form</h2>  
  
 <form name="loginForm" ng-submit="submitForm()">  
 <div>  
 <label>Username:</label>  
 <input type="text" name="username" ng-model="user.username" required>  
 <span ng-show="loginForm.username.$touched && loginForm.username.$invalid">Username is required.</span>  
 </div>  
  
 <div>  
 <label>Password:</label>  
 <input type="password" name="password" ng-model="user.password" required>  
 <span ng-show="loginForm.password.$touched && loginForm.password.$invalid">Password is required.</span>  
 </div>  
  
 <div>  
 <button type="submit" ng-disabled="loginForm.$invalid">Login</button>  
 </div>  
 </form>  
  
</body>  
</html>

**Step 3: Create the AngularJS Application File**

Create an AngularJS file (loginApp.js) with the following content:

var app = angular.module('loginApp', []);  
  
app.controller('loginController', function($scope) {  
 $scope.user = { username: '', password: '' };  
  
 $scope.submitForm = function() {  
 if ($scope.loginForm.$valid) {  
 alert('Form is valid!');  
 // Here you can handle the form submission, like sending data to the server  
 } else {  
 alert('Form is invalid!');  
 }  
 };  
});

**Step 4: Run the Application**

Place the login.html and loginApp.js files in your web server's root directory.

Access the application by navigating to the login.html file in your web browser (e.g., http://localhost/login.html).

Expected Functionality

The application displays a login form with fields for username and password.

Both fields are required. If the user tries to submit the form without filling them out, validation messages are displayed.

If the form is filled out correctly and submitted, an alert shows a validation success message.

This application demonstrates basic AngularJS features for creating forms with validation. You can extend this by connecting it to a backend server to authenticate users.