| RegEx | Description |
| --- | --- |
| ^ | The password string will start this way |
| (?=.\*[a-z]) | The string must contain at least 1 lowercase alphabetical character |
| (?=.\*[A-Z]) | The string must contain at least 1 uppercase alphabetical character |
| (?=.\*[0-9]) | The string must contain at least 1 numeric character |
| (?=.*[!@#\$%\^&*]) | The string must contain at least one special character, but we are escaping reserved RegEx characters to avoid conflict |
| (?=.{8,}) | The string must be eight characters or longer |

//password example

<html>

<head>

<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.3.15/angular.min.js"></script>

<script>

var myApp = angular.module("myapp", []);

myApp.controller("PasswordController", function($scope) {

var strongRegex = new RegExp("^(?=.\*[a-z])(?=.\*[A-Z])(?=.\*[0-9])(?=.\*[!@#\$%\^&\\*])(?=.{8,})");

var mediumRegex = new RegExp("^(((?=.\*[a-z])(?=.\*[A-Z]))|((?=.\*[a-z])(?=.\*[0-9]))|((?=.\*[A-Z])(?=.\*[0-9])))(?=.{6,})");

$scope.passwordStrength = {

"float": "left",

"width": "100px",

"height": "25px",

"margin-left": "5px"

};

$scope.analyze = function(value) {

if(strongRegex.test(value)) {

$scope.passwordStrength["background-color"] = "green";

} else if(mediumRegex.test(value)) {

$scope.passwordStrength["background-color"] = "orange";

} else {

$scope.passwordStrength["background-color"] = "red";

});

</script>

</head>

<body ng-app="myapp">

<div ng-controller="PasswordController">

<div style="float: left; width: 100px">

<input type="text" ng-model="password" ng-change="analyze(password)" style="width: 100px; height: 25px" />

</div>

<div ng-style="passwordStrength"></div>

</div>

</body>

</html>

Example JavaScript implementation for URL:

var expression = /[-a-zA-Z0-9@:%\_\+.~#?&//=]{2,256}\.[a-z]{2,4}\b(\/[-a-zA-Z0-9@:%\_\+.~#?&//=]\*)?/gi;

var regex = new RegExp(expression);

var t = 'www.google.com';

if (t.match(regex)) {

alert("Successful match");

} else {

alert("No match");

}

Here's an example of the above in action for Email:

function validateEmail(email) {

var re = /^(([^<>()[\]\\.,;:\s@\"]+(\.[^<>()[\]\\.,;:\s@\"]+)\*)|(\".+\"))@((\[[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\])|(([a-zA-Z\-0-9]+\.)+[a-zA-Z]{2,}))$/;

return re.test(email);

}

function validate() {

$("#result").text("");

var email = $("#email").val();

if (validateEmail(email)) {

$("#result").text(email + " is valid :)");

$("#result").css("color", "green");

} else {

$("#result").text(email + " is not valid :(");

$("#result").css("color", "red");

}

return false;

}