Microsoft Interview Document

The purpose of this application is simply give a Sample code of html form and validate it using javascript, jquery, angular js.

The structure of the project is the next one, interview.html contain the all the html view that the user will see, it includes fieldset tag to group all the form, tabindex to navigate through the form with the specify index the for attribute the help the semantic.

The js folder contain all the javascript that is used on the project, the core.js contain the javascript that validate the form, the test.js contain all the unit testing for the app, it only test 2 main methods of the userValidator object, the validateIsOnlyLetters that will return true if the input is just letters otherwise it will return false, and the validatePassword that will return true if the input is bigger than 6 characters otherwise it will return false.

The last validation have some problems because it can accept all the symbols and this mean that it can have xss (cross site scripting) and to prevent this, a solution can be to create a prototype function to replace all symbols, pass a dictionary where the key is the symbols we want to replace and the value with the code that we want to change, something like this.

String.prototype.replaceAll = function(map) {

var replaceString = this;

for(var symbol in map){

replaceString = replaceString.replace(new RegExp(symbol,"g"),map[symbol]);

}

return replaceString;

};

the test.js file contain all the test that is made to the validator, to see these test it is needed to uncomment <div id="qunit"></div> , this div will display all the test cases, for this i use a tool called qunit, is a unit testing framework for javascript.

The qunit.js is the testing framework that I use to test the validator, mainly to know if the regular expressions are correct.

The style.css contain the css of the project, it put on green letters a message if all goes right and put on red letters the message of the errors on each field.

The qunit.css contain all the css of the qunit framework.