МИНИСТЕРСТВО ОБРАЗОВАНИЯ И НАУКИ ДНР

ГОУ ВПО ДОНЕЦКИЙ НАЦИОНАЛЬНЫЙ ТЕХНИЧЕСКИЙ УНИВЕРСИТЕТ

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по лабораторной работе № 6  
по курсу «Профессиональный практикум программной инженерии»  
Тема «Создание руководства программиста»

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<book>

<bookinfo>

<title>Randomize Password</title>

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<part>

<title>Programm description</title>

<chapter>

<title>Programm description, Short description</title>

<para>”Randomize Password” must generate a password from a specified number of charactersbwith the ability to copy </para>

<para>"Randomize Password" has eye-comfortable GUI, control elements that allow user to run and stop programm and works in user's browser </para>

</chapter>

<chapter>

<title>Programm description, Use cases</title>

<sect1>

<title>Programm description, Use functions, Use function 1</title>

<para>Generating password randomly</para>

<programlisting>

<![CDATA[

function password (length, special) {

var iteration = 0;

var password = "";

var randomNumber;

if(special == undefined){

var special = false;

}

while(iteration < length){

randomNumber = (Math.floor((Math.random() \* 100)) % 94) + 33;

if(!special){

if ((randomNumber >=33) && (randomNumber <=47)) { continue; }

if ((randomNumber >=58) && (randomNumber <=64)) { continue; }

if ((randomNumber >=91) && (randomNumber <=96)) { continue; }

if ((randomNumber >=123) && (randomNumber <=126)) { continue; }

}

iteration++;

password += String.fromCharCode(randomNumber);

}

return password;

}]]>

</programlisting>

</sect1>

<sect1>

<title>Programm description, Use funtions, Use function 2</title>

<para>Function realizing connection with html document</para>

<programlisting>

<![CDATA[

function init() {

document.title = getMessage('appName');

html('lab-passwords', getMessage('passwords'));

html('lab-length', getMessage('length'));

html('lab-special', getMessage('special'));

html('submit', getMessage('submit'));

initSelect('number',1,10);

initSelect('length',8,25);

document.getElementById('submit').onclick = function() {

generate();

}

chrome.storage.local.get('result',function(items){

if (items['result'] !== undefined) {

html('result',items['result']);

}

})

}]]>

</programlisting>

</sect1>

<sect1>

<title>Programm description, Use functions, Use function 3</title>

<para>Main function that takes the values from the html document and transfers them to the js document </para>

<programlisting>

<![CDATA[

function generate() {

var number = parseInt(document.getElementById('number').value),

length = parseInt(document.getElementById('length').value),

str = '<br/>';

special = document.getElementById('special').checked === true;

for (var i = 0; i < number; i++) {

str += HtmlEncode(password(length,special)) + '<br/>';

}

chrome.storage.local.set({'result': str},function(){

html('result',str);

})

}

]]>

</programlisting>

</sect1>

</chapter>

</part>

</book>