

ICT26 Web Development

Tutorial 4 JavaScript and DOM

Overview

- · Adding interactivity in HTML pages using JavaScript
- Understand the JavaScript syntax
- Use JavaScript to verify form fields

Guidelines

Start by putting everything into a folder named "ict726_tutorial3".

Note: Since absolute links will only work on your computer, we recommend checking your website to make sure all the links work and use the same structure on your home computer.

Introduction

- JavaScript was designed to add interactivity to HTML pages.
- JavaScript is a scripting language
- A scripting language is a lightweight programming language
- JavaScript is usually embedded directly into HTML pages
- JavaScript is an interpreted language (means that scripts execute without preliminary compilation)
- Everyone can use JavaScript without purchasing a license

Exercise 1:

Create one html page with JavaScript code that generate one heading and few paragraphs. To add those elements into your page you can use the following example:



Exercise 2:

In the last lab, we created forms to get user data. It is very important to validate that data. In this question you need to write a JS code to verify that username is not empty and password is eight characters long. For creating a form you can use the following code

Make sure the function name in your script should be validateform.

Exercise 3:

Read the following code and discuss what is the purpose of the code. Modify it to make a small login form with two fields, username and password. Validate your user name and password against an existing username and password of your choosing.

```
<script type="text/javascript">
   function matchpass(){
   var firstpassword=document.f1.password.value;
   var secondpassword=document.f1.password2.value;
   if(firstpassword==secondpassword){
   return true;
   }
   else{
   alert("password must be same!");
   return false;
</script>
<form name="f1" action="register.jsp" onsubmit="return matchpass()">
   Password:<input type="password" name="password" /><br/>
   Re-enter Password:<input type="password" name="password2"/><br/>
   <input type="submit">
</form>
```



Exercise 4:

JavaScript increases the interactivity with the user by responding to different events. Read the following code and create an event when mouseover the input field the background colour is changed.

```
<html>
<head> Javascript Events</head>
<body>
<h2> Enter something here</h2>
<input type="text" id="input1" onfocus="focusevent()"/>
<script>
<!--
    function focusevent()
    {
        document.getElementById("input1").style.background=" aqua";
    }
//-->
</script>
</body>
</html>
```

~~~~~The END~~~~~~