# **DEDAN KIMATHI UNIVERSITY OF TECHNOLOGY**

School Of Computer Science And Information Technology

Internet Application Programming CAT 2

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1. Program for Login authentication.

<!DOCTYPE html>

<html>

<title>User Authentication </title>

<body>

<form action="/submit\_login" method="post">

<label for="username">Username:</label><br>

<input type="text" id="username" name="username"><br>

<label for="password">Password:</label><br>

<input type="password" id="password" name="password"><br>

<input type="submit" value="Login">

<input type="reset" value="Reset">

</form>

</body>

</html>

1. HTML form design

<!DOCTYPE html>

<html>

<body>

<form action="/submit\_form" method="post">

<label for="name">Name:</label><br>

<input type="text" id="name" name="name" placeholder="JAMES SMART"><br>

<label for="course">Course:</label><br>

<select id="course" name="course">

<option value="BICTM">BICTM</option>

<option value="Comp Scie">Comp Scie</option>

<option value="BBIT">BBIT</option>

<option value="BIT">BIT</option>

</select><br>

<label for="age">Age:</label><br>

<input type="number" id="age" name="age" placeholder="22"><br>

<label for="gender">Gender:</label><br>

<input type="radio" id="male" name="gender" value="Male"> Male<br>

<input type="radio" id="female" name="gender" value="Female"> Female<br>

<label for="nationality">Nationality:</label><br>

<input type="checkbox" id="Kenyan" name="nationality" value="Kenyan"> Kenyan<br>

<input type="checkbox" id="Ugandan" name="nationality" value="Ugandan"> Ugandan<br>

<input type="checkbox" id="Tanzanian" name="nationality" value="Tanzanian"> Tanzanian<br>

<input type="checkbox" id="Rwandan" name="nationality" value="Rwandan"> Rwandan<br>

<input type="checkbox" id="Burundian" name="nationality" value="Burundian"> Burundian<br>

<input type="submit" value="Submit">

</form>

</body>

</html>

1. Script arithmetic

<!DOCTYPE html>

<html>

<body>

<h2>Simple Arithmetic</h2>

<p>Click the "Try it" button to perform an addition operation:</p>

<button onclick="myFunction()">Try it</button>

<p id="demo"></p>

<script>

function myFunction() {

var num1 = parseInt(prompt("Please enter the first number:"));

var num2 = parseInt(prompt("Please enter the second number:"));

var sum = num1 + num2;

document.getElementById("demo").innerHTML = "The sum of " + num1 + " and " + num2 + " is " + sum + ".";

}

</script>

</body>

</html>

1. Image and email hyperlink

<!DOCTYPE html>

<html>

<body>

<h2>Image as Hyperlink</h2>

<p>Click the image below to go to Bing:</p>

<a href="https://www.bing.com">

<img src="https://www.bing.com/sa/simg/favicon-2x.ico" alt="Bing" style="width:42px;height:42px;">

</a>

<h2>Email Hyperlink</h2>

<p>Click the link below to send an email:</p>

<a href="mailto:bravinbarlion01@gmail.com">Send Email</a>

</body>

</html>

1. Types of lists in web development

* **Unordered list:** An unordered list is a collection of related items that have no special order or sequence. This list is created by using the <ul> HTML tag.
* **Ordered list:** An ordered list is also a collection of related items, but they are arranged in a specific order. This list is created by using the <ol> HTML tag.
* **Description list:** A description list is a list of terms, with a description of each term. This list is created by using the <dl>, <dt> (description term), and <dd> (description data) HTML tags.

HTML code for the above is shown below:

<!DOCTYPE html>

<html>

<body>

<h2>Unordered List</h2>

<ul>

<li>Coffee</li>

<li>Tea</li>

<li>Milk</li>

</ul>

<h2>Ordered List</h2>

<ol>

<li>Coffee</li>

<li>Tea</li>

<li>Milk</li>

</ol>

<h2>Description List</h2>

<dl>

<dt>Coffee</dt>

<dd>Black hot drink</dd>

<dt>Milk</dt>

<dd>White cold drink</dd>

</dl>

</body>

</html>

1. Do while and while statements

* **While loop:** In a while loop, the condition is checked before the code within the loop is executed. If the condition is false at the start, the code within the loop will not run at all.

<!DOCTYPE html>

<html>

<body>

<script>

var i = 0;

while (i < 5) {

console.log(i);

i++;

}

</script>

</body>

</html>

In this example, the console.log(i) will be executed as long as i is less than 5. If i starts at 5 or more, the code within the loop will not run at all.

* Do-While loop: In a do-while loop, the code within the loop is executed first, and the condition is checked afterwards. This means the code within the loop will always run at least once, even if the condition is false at the start.HTMLAI-generated code. Review and use carefully. More info on FAQ.

<!DOCTYPE html>

<html>

<body>

<script>

var i = 0;

do {

console.log(i);

i++;

} while (i < 5);

</script>

</body>

</html>

In this example, console.log(i) will be executed once before the condition i < 5 is checked. If i starts at 5 or more, the code within the loop will still run once.