

Assignment 3

Index.php:

```
<?php
if ($_SERVER["REQUEST_METHOD"] === "POST") {
    $xmlFile = "sample.xml";
    $xsdFile = "schema.xsd";

    // Check if the XML and XSD files exist before loading them
    if (file_exists($xmlFile)) {
        echo "<p style='color: green;'>XML file found.</p>";
    } else {
        echo "<p style='color: red;'>XML file not found.</p>";
    }

    if (file_exists($xsdFile)) {
        echo "<p style='color: green;'>XSD file found.</p>";
    } else {
        echo "<p style='color: red;'>XSD file not found.</p>";
    }

    if (file_exists($xmlFile) && file_exists($xsdFile)) {
        $xml = new DOMDocument();
        if (@$xml->load($xmlFile)) { // Use @ to suppress errors during load
            if ($xml->schemaValidate($xsdFile)) {
                echo "<p style='color: green;'>The XML file is valid against the schema.</p>";
            } else {
                echo "<p style='color: red;'>The XML file is not valid. Check the schema or the
XML file.</p>";
            }
        } else {
            echo "<p style='color: red;'>Error loading XML file.</p>";
        }
    }
}
```

```
    }  
  }  
}  
?>
```

```
<!DOCTYPE html>  
<html lang="en">  
  <head>  
    <meta charset="UTF-8">  
    <meta name="viewport" content="width=device-width, initial-scale=1.0">  
    <title>XML Schema Validation</title>  
    <link rel="stylesheet" href="styles.css">  
  </head>  
  <body>  
    <div class="container">  
      <h1>XML Schema Validation</h1>  
      <form method="post">  
        <button type="submit">Validate XML</button>  
      </form>  
    </div>  
  </body>  
</html>
```

Style.css:

```
body {  
  font-family: Arial, sans-serif;  
  margin: 20px;  
  line-height: 1.6;  
}  
h1 {  
  color: #333;  
}
```

```
p {  
font-size: 16px;  
}  
  
button {  
padding: 10px 15px;  
background-color: #007bff;  
color: #fff;  
border: none;  
border-radius: 5px;  
cursor: pointer;  
}
```

Sample.xml:

```
<?xml version="1.0" encoding="UTF-8"?>  
<inventory>  
  <product status="active">  
    <id>101</id>  
    <name>Laptop</name>  
    <price>75000.50</price>  
    <quantity>10</quantity>  
    <category>Electronics</category>  
  </product>  
  <product status="inactive">  
    <id>102</id>  
    <name>Smartphone</name>  
    <price>25000.00</price>  
    <quantity>5</quantity>  
    <category>Electronics</category>  
  </product>  
</inventory>
```

Schema.xsd:

```
<?xml version="1.0" encoding="UTF-8"?>
```

```

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified">

  <xs:element name="inventory">

    <xs:complexType>

      <xs:sequence>

        <xs:element name="product" maxOccurs="unbounded" minOccurs="1">

          <xs:complexType>

            <xs:sequence>

              <xs:element name="id" type="xs:int" />

              <xs:element name="name" type="xs:string" />

              <xs:element name="price" type="xs:decimal" />

              <xs:element name="quantity" type="xs:int" />

              <xs:element name="category" type="xs:string" />

            </xs:sequence>

            <xs:attribute name="status" type="xs:string" use="optional" />

          </xs:complexType>

        </xs:element>

      </xs:sequence>

    </xs:complexType>

  </xs:element>

</xs:schema>

```

Output:



Warning: DOMDocument::load(): Extra content at the end of the document in file:C:\xampp1\htdocs\sample.xml, line: 18 in C:\xampp1\htdocs\Index.php on line 6

Warning: DOMDocument::schemaValidate(): I/O warning : failed to load external entity "file:C:\xampp1\htdocs\schema.xsd" in C:\xampp1\htdocs\Index.php on line 7

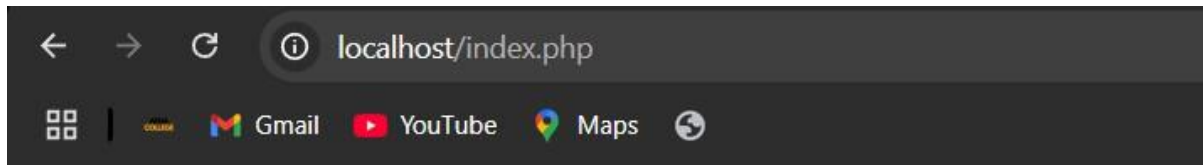
Warning: DOMDocument::schemaValidate(): Failed to locate the main schema resource at 'C:\xampp1\htdocs\schema.xsd'. in C:\xampp1\htdocs\Index.php on line 7

Warning: DOMDocument::schemaValidate(): Invalid Schema in C:\xampp1\htdocs\Index.php on line 7

The XML file is not valid. Check the schema or the XML file.

XML Schema Validation

Validate XML



XML file found.

XSD file found.

The XML file is valid against the schema.

XML Schema Validation

Validate XML