

Web Tabanlı Uygulama

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XML

- XML stands for eXtensible Markup Language.
- XML is designed to transport and store data.
- `<?xml version="1.0"?>`
- `<note>`
- `<to>Tove</to>`
- `<from>Jani</from>`
- `<heading>Reminder</heading>`
- `<body>Don't forget me this weekend!</body>`
- `</note>`

XML Giriş

- XML was designed to transport and store data.
- HTML was designed to display data.

XML Nedir?

- XML stands for EXtensible Markup Language
- XML is a markup language much like HTML
- XML was designed to carry data, not to display data
- XML tags are not predefined. You must define your own tags
- XML is designed to be self-descriptive
- XML is a W₃C Recommendation

Kendi Tagını Oluştur

- `<note>`
 `<to>Tove</to>`
 `<from>Jani</from>`
 `<heading>Reminder</heading>`
 `<body>Don't forget me this weekend!</body>`
 `</note>`

XML Örneği-1

- ```
<?xml version="1.0" encoding="ISO-8859-1"?>
<note>
 <to>Tove</to>
 <from>Jani</from>
 <heading>Reminder</heading>
 <body>Don't forget me this weekend!</body>
</note>
```

# XML Örneği-1

- ```
<root>  
  <child>  
    <subchild>.....</subchild>  
  </child>  
</root>
```


XML Örneği-2

- ```
<bookstore>
 <book category="COOKING">
 <title lang="en">Everyday Italian</title>
 <author>Giada De Laurentiis</author>
 <year>2005</year>
 <price>30.00</price>
 </book>
 <book category="CHILDREN">
 <title lang="en">Harry Potter</title>
 <author>J K. Rowling</author>
 <year>2005</year>
 <price>29.99</price>
 </book>
 <book category="WEB">
 <title lang="en">Learning XML</title>
 <author>Erik T. Ray</author>
 <year>2003</year>
 <price>39.95</price>
 </book>
</bookstore>
```



# XML Tags are Case Sensitive

- `<Message>This is incorrect</message>`  
`<message>This is correct</message>`
- XML tags are case sensitive. The tag `<Letter>` is different from the tag `<letter>`.
- Opening and closing tags must be written with the same case:

# XML Örneği-3

- `<note>`  
`<to>Tove</to>`  
`<from>Jani</from>`  
`<body>Don't forget me this weekend!</body>`  
`</note>`

## MESSAGE

**To:** Tove  
**From:** Jani

Don't forget me this weekend!

# XML Örneği-4

- ```
<person>  
  <sex>female</sex>  
  <firstname>Anna</firstname>  
  <lastname>Smith</lastname>  
</person>
```


XML Örneği-5

- ```
<messages>
 <note id="501">
 <to>Tove</to>
 <from>Jani</from>
 <heading>Reminder</heading>
 <body>Don't forget me this weekend!</body>
 </note>
 <note id="502">
 <to>Jani</to>
 <from>Tove</from>
 <heading>Re: Reminder</heading>
 <body>I will not</body>
 </note>
</messages>
```



# XML Örneği-6

- **Doğru Yazım**

- ```
<note>
  <date>
    <day>10</day>
    <month>01</month>
    <year>2008</year>
  </date>
  <to>Tove</to>
  <from>Jani</from>
  <heading>Reminder</heading>
  <body>Don't forget me this
weekend!</body>
</note>
```

- **Yanlış Yazım**

- ```
<note day="10" month="01"
year="2008"
to="Tove" from="Jani"
heading="Reminder"
body="Don't forget me this
weekend!">
</note>
```

# DTD & XML Validate

- `<?xml version="1.0" ?>`
- `<!DOCTYPE note [`
- `<!ELEMENT note (to,from,heading,body)>`
- `<!ELEMENT to (#PCDATA)>`
- `<!ELEMENT from (#PCDATA)>`
- `<!ELEMENT heading (#PCDATA)>`
- `<!ELEMENT body (#PCDATA)>`
- `]>`
- `<note>`
- `<to>Tove</to>`
- `<from>Jani</from>`
- `<heading>Reminder</heading>`
- `<message>Don't forget me this weekend!</message>`
- `</note>`

# XML Stringlerinin Parser Edilmesi

- `txt="<bookstore><book>";`  
`txt=txt+"<title>Everyday Italian</title>";`  
`txt=txt+"<author>Giada De Laurentiis</author>";`  
`txt=txt+"<year>2005</year>";`  
`txt=txt+"</book></bookstore>";`

```
if (window.DOMParser)
{
 parser=new DOMParser();
 xmlDoc=parser.parseFromString(txt,"text/xml");
}
else // Internet Explorer
{
 xmlDoc=new ActiveXObject("Microsoft.XMLDOM");
 xmlDoc.async="false";
 xmlDoc.loadXML(txt);
}
```



- <html>
- <body>
- <div>
- <b>To:</b> <span id="to"></span><br />
- <b>From:</b> <span id="from"></span><br />
- <b>Message:</b> <span id="message"></span>
- </div>

- <script type="text/javascript">
- if (window.XMLHttpRequest)
- { // code for IE7+, Firefox, Chrome, Opera, Safari
- xmlhttp=new XMLHttpRequest();
- }
- else
- { // code for IE6, IE5
- xmlhttp=new ActiveXObject("Microsoft.XMLHTTP");
- }
- xmlhttp.open("GET","note.xml",false);
- xmlhttp.send();
- xmlDoc=xmlhttp.responseXML;
- document.getElementById("to").innerHTML=
- xmlDoc.getElementsByTagName("to")[0].childNodes[0].nodeValue;
- document.getElementById("from").innerHTML=
- xmlDoc.getElementsByTagName("from")[0].childNodes[0].nodeValue;
- document.getElementById("message").innerHTML=
- xmlDoc.getElementsByTagName("body")[0].childNodes[0].nodeValue;
- </script>
- </body>
- </html>



# XML & HTML Örneği

```
<html>
<body>

<script type="text/javascript">
if (window.XMLHttpRequest)
 {
 // code for IE7+, Firefox, Chrome, Opera, Safari
 xmlhttp=new XMLHttpRequest();
 }
else
 {
 // code for IE6, IE5
 xmlhttp=new ActiveXObject("Microsoft.XMLHTTP");
 }
xmlhttp.open("GET","cd_catalog.xml",false);
xmlhttp.send();
xmlDoc=xmlhttp.responseXML;

document.write("<table border='1'>");
var x=xmlDoc.getElementsByTagName("CD");
for (i=0;i<x.length;i++)
{
 document.write("<tr><td>");
 document.write(x[i].getElementsByTagName("ARTIST")[0].childNodes[0].nodeValue);
 document.write("</td><td>");
 document.write(x[i].getElementsByTagName("TITLE")[0].childNodes[0].nodeValue);
 document.write("</td></tr>");
}
document.write("</table>");
</script>

</body>
</html>
```

|                 |                          |
|-----------------|--------------------------|
| Bob Dylan       | Empire Burlesque         |
| Bonnie Tyler    | Hide your heart          |
| Dolly Parton    | Greatest Hits            |
| Gary Moore      | Still got the blues      |
| Eros Ramazzotti | Eros                     |
| Bee Gees        | One night only           |
| Dr.Hook         | Sylvias Mother           |
| Rod Stewart     | Maggie May               |
| Andrea Bocelli  | Romanza                  |
| Percy Sledge    | When a man loves a woman |
| Savage Rose     | Black angel              |
| Many            | 1999 Grammy Nominees     |
| Kenny Rogers    | For the good times       |
| Will Smith      | Big Willie style         |
| Van Morrison    | Tupelo Honey             |

# XML & HTML Örneği-2

```
• <html>
• <head>
• <script type="text/javascript">
• if (window.XMLHttpRequest)
• { // code for IE7+, Firefox, Chrome, Opera, Safari
• xmlhttp=new XMLHttpRequest();
• }
• else
• { // code for IE6, IE5
• xmlhttp=new ActiveXObject("Microsoft.XMLHTTP");
• }
• xmlhttp.open("GET","cd_catalog.xml",false);
• xmlhttp.send();
• xmlDoc=xmlhttp.responseXML;

•
•
• x=xmlDoc.getElementsByTagName("CD");
• i=0;

•
• function displayCD()
• {
• artist=(x[i].getElementsByTagName("ARTIST")[0].childNodes[0].nodeValue);
• title=(x[i].getElementsByTagName("TITLE")[0].childNodes[0].nodeValue);
• year=(x[i].getElementsByTagName("YEAR")[0].childNodes[0].nodeValue);
• txt="Artist: " + artist + "
Title: " + title + "
Year: " + year;
• document.getElementById("showCD").innerHTML=txt;
• }
• </script>
• </head>
• <body onload="displayCD()">
• <div id='showCD'></div>
• </body>
• </html>
```

Artist: Bob Dylan  
Title: Empire Burlesque  
Year: 1985

- <html>
- <head>
- <script type="text/javascript">
- if (window.XMLHttpRequest)
- {  
• // code for IE7+, Firefox, Chrome, Opera, Safari
- xmlhttp=new XMLHttpRequest();
- }
- else
- {  
• // code for IE6, IE5
- xmlhttp=new ActiveXObject("Microsoft.XMLHTTP");
- }
- xmlhttp.open("GET","cd\_catalog.xml",false);
- xmlhttp.send();
- xmlDoc=xmlhttp.responseXML;
- 
- x=xmlDoc.getElementsByTagName("CD");
- i=0;
- 
- function displayCD()
- {
- artist=(x[i].getElementsByTagName("ARTIST")[0].
- childNodes[0].nodeValue);
- title=(x[i].getElementsByTagName("TITLE")[0].
- childNodes[0].nodeValue);
- year=(x[i].getElementsByTagName("YEAR")[0].
- childNodes[0].nodeValue);
- txt="Artist: " + artist + "<br />Title: " + title + "<br /
- >Year: " + year;
- document.getElementById("showCD").innerHTML=txt;
- }

- function next()
- {
- if (i<x.length-1)
- {
- i++;
- displayCD();
- }
- }

Artist: Bee Gees  
Title: One night only  
Year: 1998



- function previous()
- {
- if (i>0)
- {
- i--;
- displayCD();
- }
- }

- </script>
- </head>
- <body onload="displayCD()">

- <div id='showCD'></div><br />
- <input type="button" onclick="previous()" value="<<" /
- >
- <input type="button" onclick="next()" value=">>" />
- 
- </body>
- </html>