



DOM Parser

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Introduction

The Document Object Model (DOM) is an application programming interface (API) for valid HTML and well-formed XML documents. It defines the logical structure of documents and the way a document is accessed and manipulated XML presents the data as documents, and the DOM may be used to manage this data.

How the DOM Parser works

- Creates a tree structure in memory from the input document and then waits for requests from client.
- Always serves the client application with the entire document no matter how much is actually needed by the client.
- Method calls in client application have to be explicit and forms a kind of chain.
- It is a tree-based API is centered around a tree structure and therefore provides interfaces on components of a tree (which is a DOM document) such as **Document** interface, **Node** interface, **Node List** interface, **Element** interface, **Attr** interface and so on.

Disadvantages

DOM Parser is Rich in functionality because it creates a DOM tree in memory and allows you to access any part of the document repeatedly and allows you to modify the tree, It is space inefficient when the document is huge and it takes little bit long to learn how to work with it.

When to use DOM Parse

- If application needs to access widely separately parts of the document at the same time.
- If application may probably use a internal data structure which is almost as complicated as the document itself.
- If application has to modify the document repeatedly.
- If application has to store the document for a significant amount of time through many method calls.

Referenced links

<http://www.w3.org/TR/DOM-Level-2-Core/introduction.html>

http://www.troubleshooters.com/tpromag/200103/codexercises.htm#_writingxml

Sample

Name	Size	Creator	Creation Date	Comment
Employee.xml	0.6 kB	MULLAIKANI A.	Jul 20, 2012 06:47	Employee XML
DomParser.java	2 kB	MULLAIKANI A.	Jul 20, 2012 06:48	Parsing Employee XML
Employee.java	2 kB	MULLAIKANI A.	Jul 20, 2012 06:48	Employee Object

Assignment

- Retrieve the list of all subelements with a particular name.
- Iterate through that subelement list.
- Retrieve an attribute by name.