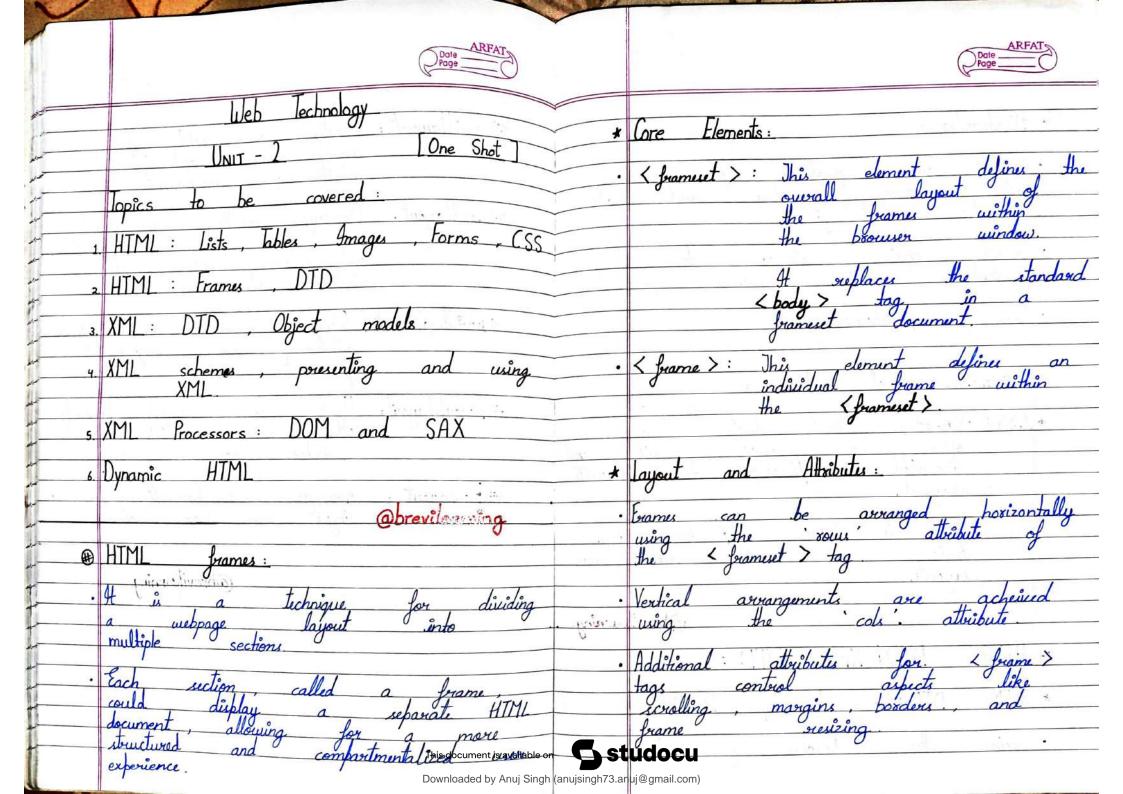


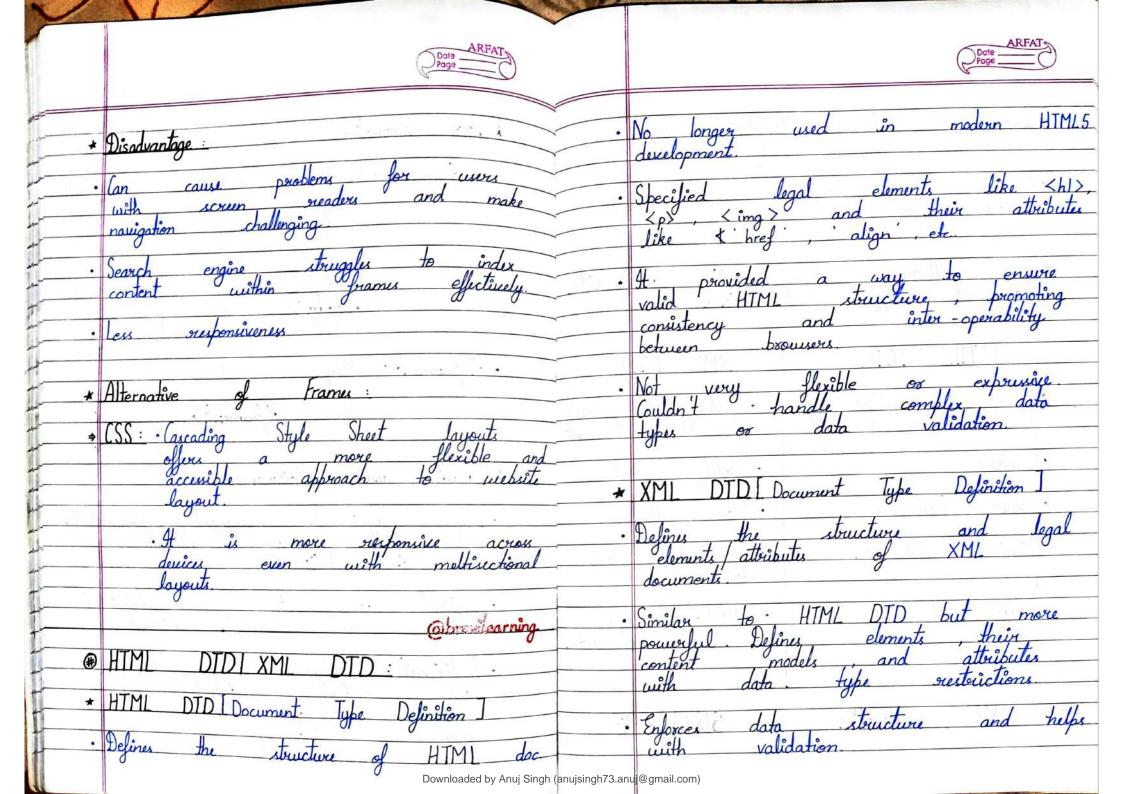
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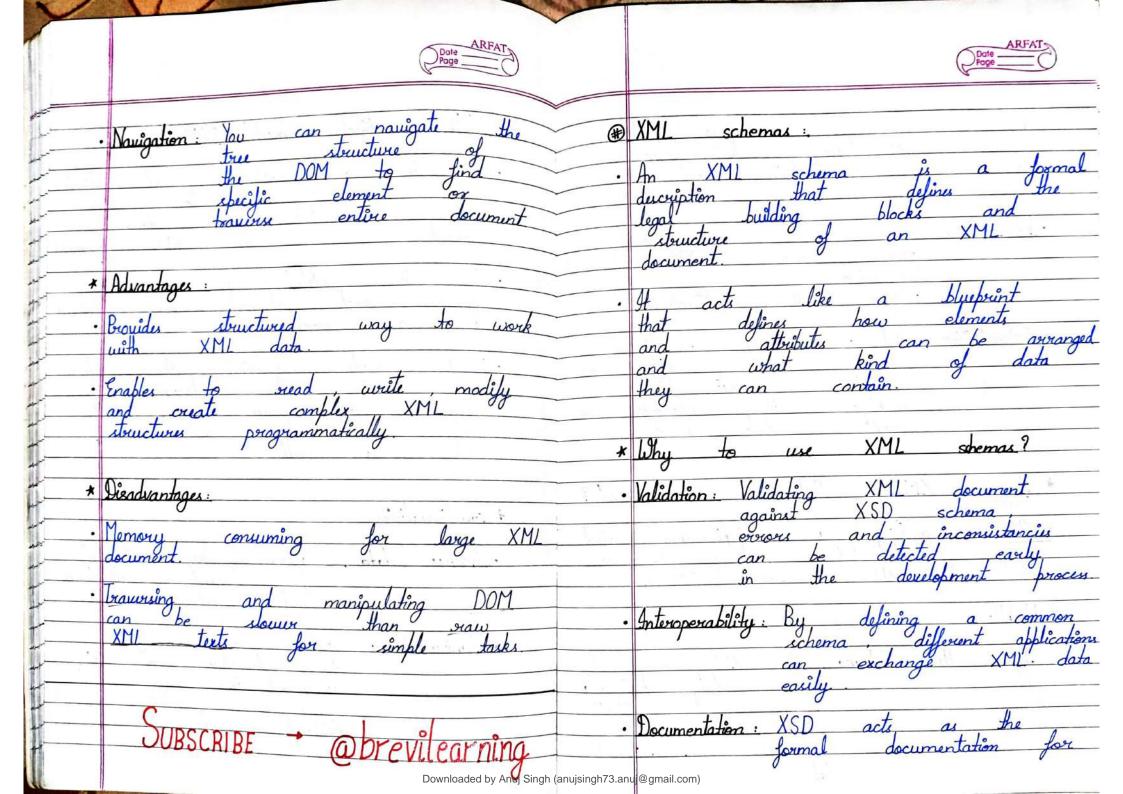


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	Dole Page	Date Foge
· Promotes data in easier processing · Can become complete scale data definition	tegrity and by applications for large	XML object model [DOM]: If is a collection of objects that you use to accus and manipulate the data stored in an XML document.
* Key differences b/w Document Type	HTML and XML	H is modeled as a true, where each element is considered as a rode.
HTML DTD Defines structure of Himl document.	ML DTD Defines bu structum of XML document	· Each node contains the actual data in the document Each element node can have child nodes, parent node, and sibling nodes as well.
· Limited use · Louien flexibility	· Wore flexible	* Functionalities:
- Limited datatypes - Basic structure	· Can define data types.	· Access data: allows the retrieval. of elements, attributes and text content:
- Basic structure validation.	· Validation of · structure and data.	Manipulation: allows to manipulate the structure of XML document for can add,
LIKE, SHARE	This document is available or Downloaded by Anuj Singh (anujsingh73)	attributes and text nodes.



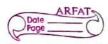




clear representation and validation of elements, attributes and data	Validate XML documents: XML documents are validated using an XML validator to ensure that document constains defined structure and date
· Reusability: Schemas can be seused	types.
aceast multiple	
increation contisencia	Processing XML data: Applications that
0 0	can utilize the schema
· Extensibility: Schema offers execting	information to understand the
custom data types or	etwicture data tuber and
extending existing ones,	expected values, leading to
making it adaptable to	more efficient and relia
complex data needs.	processing.
align A	@brevilearning
* How XML Schemas are used?	(COOLES ELECTION)
A	# Bresenting and using XML:
Schungs are tubically created	the state of the s
using dedicated schema languages	· XML: Am XML is, a document
like XSD (XML Schema Definition).	that is not designed
Workflow:	that is not designed to be human readable
- 1 100): - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	. It stores data in a
Define the Schema: An XSD document	1
	elements and attributes
is created, specifying the elements, attributes,	
data types, and	· XSL sheet: · This is a special
Constraints Tothis document is available on St	udocu set of instructions the
data. Downloaded by Anuj Singh (anujsingh73.anu	

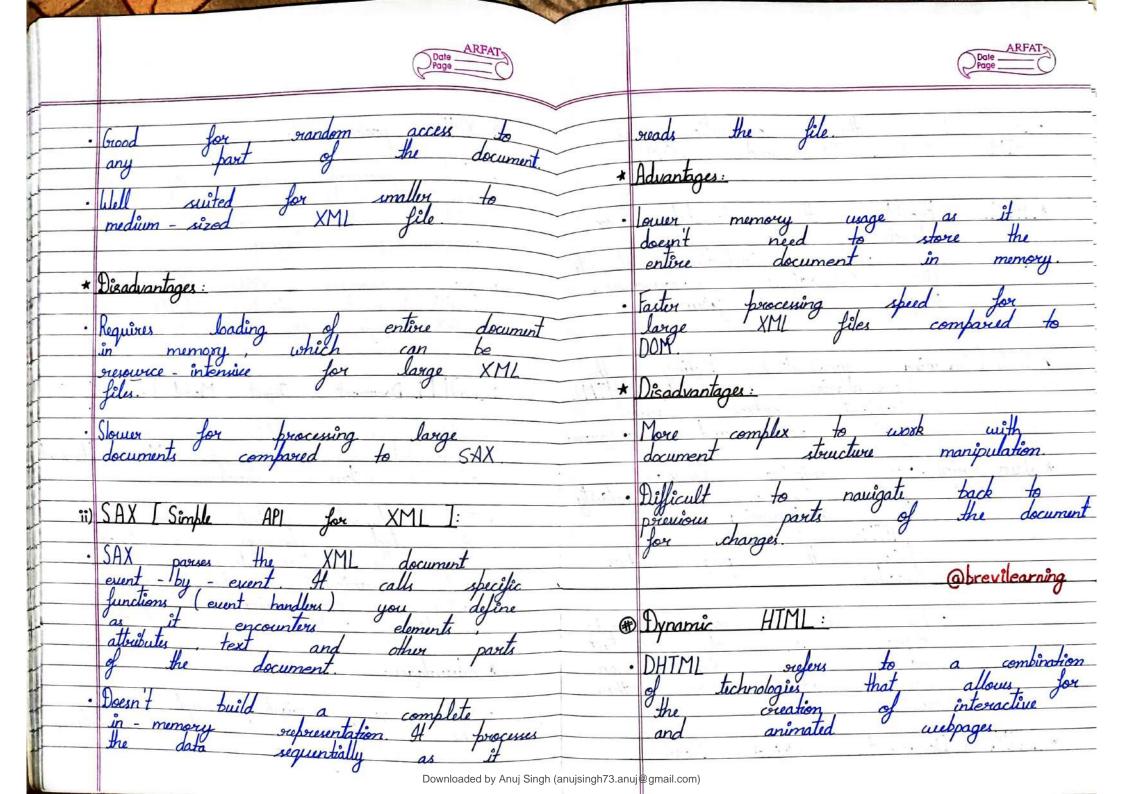
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taku the XML data and transform it into a human readable format, like a web-page	applied to multiple XML document, saving time and effort in creating consistent presentation.
XSL stylesheet reads the XMI . document and uses patterns to identify the data it needs	Ease updation: XSL keeps the XML data separate from the presentation (XSLT) making it
Advantages of XSL Stylesheet:	easier to maintain and update each part independently.
Presentable data: XML data is transformed into a user foriendly format, making if early to	e.g: (book. xml): xml verion = "1.0" encoding = "UTF-8"?) \langle book \rangle \langle book \rangle \langle title \rangle Krishna \langle ltitle \rangle \langle author \rangle Vishnu \langle author \rangle</td
Flexibility: XSI stylesheet allows a wide mange of formatting options, enabling you to customize the presentation	(book xs1):
Reundle tyles: Same styleshest can be Downloaded by Anuj Singh (anujsingh 73.and	<pre></pre>





(h1) My Books (1h1)	₩ XML processors:
(ul) (xs): fox-cach select = "books/book")	. XMI procusous are the tools that helps you to work with XMI data in
<pre></pre>	риоднаттіпд languages.
	Two common XML processors are DOM (socument object model) and SAX (simple API fox XML).
<pre></pre> <pre><</pre>	
	Builds a complete in - memory
this stylesheet to XMI:	Builds a complete in - memory representation of entire XML documen as a tree structure. • Each element, attribute, and piece of text becomes a node in the tree life can access and manipulate these nodes using programming language functions.
Result: (! DOCTYPE html > (html >	• Each element, attribute, and piece of text becomes a node in the tree ble can access
<pre></pre>	in the tree lile can access and manipulate these nodes using programming language functions.
(li) Knishna - by Vishnu (/li)	* Advantages:
<pre></pre> <pre><</pre>	· Easier to navigate and modify. The entire document structure.
@ brevi Pris document is available on	

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	HTML CSS, JS and DOM.	Represents the HTML document structure as a tree of
	The transfer of	
*	HTML: Provides the foundation or .	JS can interact with their objects to modify content, styles, and even additions or remove elements entirely.
	HTML: Browides the foundation or structure of the web page including clements like headings paragraphs. images and forms.	objects to modify content, styles, and even add or remove elements entirely.
	images and forms.	or stemolie etiments stating.
	V. ·	Common Uses of DHTML:
*	CSS (Cascoding Style Sheet): Defines the presentation of the HTML . content, controls layout fonts, colors and background.	Interactive elements: Creating things like
	fonts, colors and background	Interactive elements: Creating things like dropdown menus. image sliders that respond to user
*	Java Script: A scripting language	interaction.
	Java Script: A scripting language that enables interactivity by manipulating the HTML and CSS after the page has loaded.	Animations: Implementing smooth transitions, moving elements, or other visual effects to enhance user experience.
- 3	after the page has	visual effects to enhance user expenience.
		Real - time updates: Updating content without
	changes to the content and style based on user actions or other	Real - time updates: Updating content without succoding the entire page, such as live that features, etc.
*	DOM (D	Data validation: Thecking user if in form
	DOM (Document Object Mindelumentis available on St.	udocu for evious before wominion.

