Assignment no :- 02

Topics covered :- xml

· XMLDTD

HOLT .

- Dorn

- REST APT

Date of performance: - 08-08-32

Evaluation Criteria	Marks (out of 3)	Date	Signature of Instructor
Punctuality	03		
Problem solving technique	03	08/8/202	-
Attainment level (out of 3)	03		

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Assingmont Mo-:- 02

what is xml ? explain the xml terres structures Q 1)

XML:- Kampa-1813 Aurio Campa-1815

- XML Stands for extensible markup language
 - XML is a markup language much like HTML
- xor was designed to store and transport duty
 - YML is a slue and hardwark indendepent tool for (alollet 1 Storing a trumporting duta.
 - you is a w3c Recommedation.

· XML TEER STELLTUTE:

- An xml document has a self decriptive steuture
- it tooms a stree structure which is referred as an XML + Eac.
 - . The tree structure meters early to destribe an xml document
 - . The teel structure which fettere as an xore tree.
- A teal structle contains proof element (us persont) child element and so on, it is very early to traverse au succeeding branch and suc-branchs and leaf nodes Starting from the root

· Example of an XML document

Lixur version = 1.0'1>

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MENT IN A VOSE RECOMPRESENT

The tree standards makes being to destribe on your dominants.

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etement and so solliff; your to with themen e au

stand the sun succession of the following and test notes

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0 2> what is xml oro?

DTD

DTP stands for occurrent type betthition, it defines to leyal swilding Glocks at an XML document it is used to define document structure with a 42+ of legar element and attifacted and all the state of the stat

IN THE STATE OF THE STATE OF THE

the block of a party of a party of the last of the las

· Purpose of oto

its main purpose is to define the steward of an xml document. It contains a list of lesay elements any define the structum with help of them ATTUMENT LINE TO I HE CONTRACTORS TO CORDAN ESCRIPTION

H RODALB FACE

Ex. of well-toomed and vaid xml dayment

SEDIE Later entry Declaration (5"0,1" = notional Jaxis

LIDOCTYPE employee SYSTEM "employee dtd">

Lemployee>

HELLHOMEY Abiny (1 Hermanner)

& lostnames Khowayauchtarthames

L'amail Demo 60 gmailercom 21 email)

L employeas

· Description of DTD:-LIDOETYPE employee:- it define that the 2004 element at

ty document is employee

S element "Heztrame, kuzname and email".

LIELMENT FIELMANNES ! it define that fielthame element is
PCDATA Type (panse-able data type)

Y JELMEHT lastnames: - it detines that the lastname element and is is

PCDATA type

LIELMENT Domaily: it define that the email element is

PROATA type

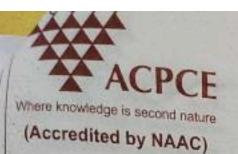
· De DTD with entity Declaration

A Doctupe deceloration can also define species string that used in the XML Hile

An entit to tree part :-

-An ampers and (20)
-An entity name
-A semiculon (;

SYNTAX = < ! ENTITY entity name = ! entity value! >



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Doscriso 11 Tour	· A collection of Idea - value pair Pricioses
LOSO OF THE JOHN WITH	the help of Syntax ap explain ty with
help of one example.	Commaco Con Contract Contract Contract S

- · JSOM
- . I SOM Javascript Object Notation") is a text-based doctal exchange formet. otes
 - . it is a collection of key value pair where the likely must be string type, and the value can se of any of the tollowing types.
 - · Humber .. Object
 - · string · Much
 - Boolean most substitus at word which Host shoop it
 - · Array
- · Important Rule of Syntax!
 - · to the Json data format the lay must be enclosed in double gasots

+ name: I the Marine of the empolype. The water is on small + 10

- · The Kay 22 value mest 62 separated by a colon (:) symcol.
- . There (4n be mutiple-key-value pain.
- . Theorkey-value pains most se separated by a commy (1) symbol.
- · Ho comments (11 or 14) fam allowed in 550H date.
 - " Mumeaj"

- · A collation of key -value pair enclosed by a pair of curty brokes)
- . A collection of an ordered list of key-vulue pain separately by comma(,) any enclosed by a pair of square brackets [...]

TO TRULE

```
EX.

{ "nume": "Privush",

"id": "'5010;

"aye": 23;

doj: "10-12-20",

married": fazux:
```

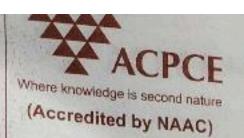
3

The acove JOH dates show the attribute of an employee The attribute an.

- · name : tu name of the empolyee the value is of string tyn
- · 14 ! I unique identification of an employee it 0 q string tra
- . age: The current age of the employee litis number.
- · 901 : The dure of the soiny empoyee the company it stily ful

the comment (100 to par thouse in fort date.

· married! The employer married ? it so true or fully 50 ty



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1. 24] what is Dom? Explain the Dom with help of thee hierarchy.

DOM :-

The Dom (Document object model (Doi) a programming Interface for HTML (Hypertext Mankap Lanaguage) and XML (Extensial Markup language) document it defines to logical streaton ou documents and tu way a document is award and manipulated.

Dom is way to represent ty we spage is astrution hierachical way So that it will become easier I for programmers any user to glide through the document. with Dom, we can early accom any manipulates any upon tay, ID, classed attribute, or element of Home wing commands or method provided by the Document ociat. early Dorn ity Javassipt yet aron to HIML as wey as cos or th were page 20 can any behavior to to theme element so basically Document object a modell. Is an API that soperants any Intereact with Home or kmy document

Document at tees hierorgany al pion at owners to mad of sure Roof dament Khimi MUU armong a wow toborn assist townsoon mod of Element to compense the contract of the court and < heary feetige I set continue of the continue of services and THE PRINCIPAL SEE Eldemni MILES O HALL WIT A+1/ Cute 4itte) Element here Ell Text. the state of a company of the same and the same of the Test ability of the could be common and the second the secon and the ten out they not stor mod that tensional at appoint LOTE TO BE TO HONORS NO DESIGNATION LONG OF JOH 1901 LOS spire, as just to popular of the fall to be spire to the property 34 10 (C) C DOW CO JOTH OF COM TOP DOWNER OF DOOR serior to the sure of an author of the and the serior THE PROPERTY OF THE PARTY OF THE PROPERTY OF THE PARTY OF School to a start that to had do made

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more popular training bally und 10 lance Seven Explain · REST API.

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METOR

Application programming interferce (API) is softwar interface that allow two Applications to interact with each other without any gove intervention.

APT means software code that can be accord or executy APJ define as a code they can be other helps two aitlesont Software's to communicate any exchange data with each other.

TO ADJUMPS ADDRESS IT HOME OF LATER THE PATRICLE OF Bisines Apt on a series 1 to thewate 1700 resolution Supro of yourse in the characteristerist of by

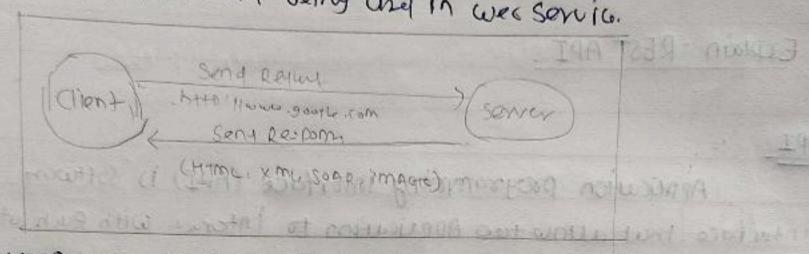
· REST API

Representational State transfer REST in an architectural style that dofine a sot of constraint to be used for creating wer sorvice. REST API is way of aclosening were service in simple any flexible way without having any processing.

Contain to country the virtual

- CHICH : IF IS USED TO MODIFY CAPULIFIS THE PATCH SOFTIST ONLY FICE ONLY FICE STATES

* Working: A request is sent from client to server in the from of were one as HITTP ETET or post or PUT or DELETTE sequent. After that a resource which can be anothing like HTML, XML, IMME Or TSOH. Dut Now I some in the popular format being used in were Service.



In HTTP those we the method that are commonly used in REST -Bord Asilkton . i.e POST, GIET, PUT, PATCH 20 DELETT. Theare to gran correspond to create, read, updates 20 delete operations respectively.

- · GET: The HTTP GIET Method is used to read a septembertation of a resource
- · POST: The POST Vere is most often whitzel to create new resource
- "PUT: PUT is used to create resource in the case when the Eesource of its chosen by the client instended of by the sorver it
- OPATCH: it is used to modify capacillis. The PATCH soquest only need to contain the Changes the resources.

- DELETE: - it is used to delect a resource identified by a URL.

Algorithms and the