Name Ananya Prasad 49 No: 20BCE 1009 3 What plant - 1000 100 100 100

ASSIGNMENT - 2 months

Entrain Lateralas pira atresporat in the comment menting since their 1) what is XML? What are its advantages and disadvarilages

- , xML stands for extensible markup language.
- . XML is a markup language used to store and transport data Esoly underwed and educing
- XML uses a set of predigined tags to makk up the data in a document, similar toHTML but users can define tags-100 successor
- . XML is used to discribe the meaning and content of the data within a document ratry transitis layout and appearance in a manual in a
- .XML is a presible open standard, and can be used with a wide vainety of systems and appurations
- . XML is easy to read and write and can be used to represent complex data
- and present days in conjunction with other technologies such as XSL to transform and present data in different formati.
- ·XML is commonly used to exchange data between different systems and applications asit is platform independent.

Advantages of using XML over a database:

- * Platform independence: XMI is a platform-independent format, meaning it can be used on any operating system. In contrast, different databases may have different requirements for hardware and software, making them use portable.
- * Human readable: XML is a human readable format, meaning it can be easily understood and editing humans. This can make it easier for people to work with the maintain XML data, as opposed to dealing with a more complex database structure
- * Entensibility: XML is extensible, meaning It is easy to add new tags and altributes to an XML document. This can make it more flexible for storing and organizing data - that may change or evolve overtime
- * Wide support: XML is widely supported and can be used with a variety of programs and languages. This makes it easies to work were with and integrate XML data into different systems and applications
- * self describing: XML is a self-describing language, it contains tags trat provide information about the auta contained in the file

XML little can

is a self secesion, sanguage,

age was provide injormation more deficult

date contained in the file.

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2) Explain XSL with a suitable example all on my many and and and and
    XSL (extensible Stylesnett Language) is a programming language that is
 wed to transform XML documents into other formate such as HTML or PDF.
 It is typically used to control the presentation of data that is stored in XML
                                                                       MINDER - LA - EILONES
documents.
                                                                            5 CB C+ Was 1000 >
Example: XSL slegleshett-that transforms an XML document into an HTML table:

<p
exsl: template match = "/">
                                                                             618 12 25 5/ags >
     E PERSON >
    2br>
                                                                                                   (2) (12) (1)
           Nance 
          eth> Age 
                          The reading HTML output would be atable with the rooms
    < 1tr>
                                                                      power to the XML downers.
                                                                                   clark pordu "1">
    <xsl: for-each select: "people /person">
          (tr>
                                                                          CENT MARIN C/ENT
          Ltd> < xsl: value-of select = "name"/> 
                                                                            Ebhir Agestehr
           ztd>2xsl: ralue-of select="age"/> 
                                                                                          <1315
   2/60>
                                                                                           (x+)
  </xsl: for -each >
                                                                    CEAS Alice c/tds
 21table>
                                                                      とものと きロと (もむ>
 </r>
C/XSL: template>
                                                                                         C164 6

                                                                                            447
                                                                      LEAX 600 = 150,
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This XSL stylesheet degines a templace—that matches the not clement of the XML document. Inside the templace, it create an HTML table with two columns: "Name and "Age". Then, it was an 'xsl: for-each' loop to iterate over all the 'person' elements in the 'people' element, and creates a romain the table for each person. Finally, it uses 'xsl: value-of' to insert the values of 'name' and 'age' element to cells.

```
To use this XSL stylesheet, you would apply it to an XML document that
 Contains data about people, like this:
 < 9 xme version = "1.0%>
                              transpilar XV. L. Marunan L. un'to obur
                 from all stands
                              water and control of hour presentation
     <person>
        <name > Alice </name>
        2 age > 302/age>
    i > 21 staplisher und bangares an NNI housens inte agnossaglise
 < person?
                                             is . 1 "= marinar Desiron = 1.0
      < name > Bobe / name>
                                                 Domitte maters
      <age> 25</age>
                                                   City a porder = 11/2
  </perpus
                                                 the Mance a / this
 The resulting HTML output would be a table with two rows, one for each
 person in the XML document.
  st : for - each celete !" people /person">
      Lbr>
         Name 
                          256> 2 KSL: Value of select - "name" /> 4/60>
         > Age< 1th>
                                              10-man : 12x 2 < 401
         <ta> Alice </ta>
                                                      17x51: for - each >
             > soc/ta>
          (xel: template?
            Ltd> Bob 
                                                        ( 1156 ) a Charman >
Jux and to amend the Elftax more warmen of on the spirits arrived is
    sounder. Incide the complete pit arete on HTMI table with two columns.
    nd "Age" . There it week on 'new for each ' boy to ever all tru' person'
  arrests in the people' element , and creates a repoint the table in each person.
will of to about the value of hums, and age during
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