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XML / XSL Validation

Web Stack Development

In the validation process, the XML product data is converted from the e-commerce catalog into a user friendly HTML format while adhering to a predefined XSD (XML Schema Definition).

The **XML data is transformed using XSLT** to improve the presentation of the XML data in a structured HTML structure. The transformation process includes defining templates that correspond to specific XML nodes. The XML data is extracted and included in the HTML structure using the XML value-of function.

Before the transformation, the **XSD data is validated** to ensure compliance with specified rules. The XSD schema specifies the structure and limits for product elements such as numerical price values.

The validation errors are captured to identify and potentially correct the non-conformity of the data.This case study demonstrates proficiency in XML-as-a-Service (XSLT) and schema creation. It demonstrates manipulation of data, ensuring accuracy, and providing improved data visualization on the website.

Here 5 files are being used

shopsmart.xml - Which defines the xml form data that we want to convert into a HTML

shopsmart.xsl - The extensible stylesheet which defines the style of how the xmldata is to be structured

shopsmart.xsd - The schema file to which the xml corresponds to with appropriate tags

shopsmart.ipnyb - Python script to read both xml as well as the XSLl file and create a HTML file
and create a validation logic to compare the created html and the existing xml schema

shopsmartparse.html - The Dynamic html content that is created using thepython script