**summary**

The transformation process involved parsing the XML product catalog using the XSLT stylesheet to extract relevant data and create a user-friendly HTML representation. This transformed HTML was then subjected to validation against the XSD schema to ensure compliance with the defined rules.

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.