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| Aspect | HTML | XML |
| Purpose | Used to structure and display content on the web (hypertext documents). | Designed to store and transport data in a self-descriptive format. |
| Tag Definition | Contains predefined tags like <html>, <body>, <div>, etc. | Does not have predefined tags; users define custom tags according to their needs. |
| Case Sensitivity | Not case-sensitive; <HTML> and <html> are treated the same. | Case-sensitive; <Tag> and <tag> are treated differently. |
| Data Validation | Does not require strict validation; browsers are lenient with errors. | Requires strict validation; follows rules of well-formedness and optional DTD/Schema. |
| Focus | Presentation and layout of data. | Storing, structuring, and transporting data. |
| Closing Tags | Not mandatory for all tags (e.g., <img> or <br>). | Every tag must have a closing tag or be self-closing. |
| Attributes | Limited to predefined attributes like id, class, etc. | Users can define custom attributes. |
| Usage | For web page design and display. | For data exchange between systems and applications. |
| code | <!DOCTYPE html>  <html>  <head>  <title>HTML Example</title>  </head>  <body>  <h1>Welcome to HTML</h1>  <p>This is a paragraph in HTML.</p>  </body>  </html> | <?xml version="1.0" encoding="UTF-8"?>  <bookstore>  <book>  <title>XML Basics</title>  <author>John Doe</author>  <price currency="USD">25.00</price>  </book>  </bookstore> |