

DTD

The DTD must adhere to the following requirements

- 1.a Well-structured DTD file
- 1.b Logical naming convention of elements and attributes
- 1.c Nested elements correctly declared
- 1.d Logical element cardinality set throughout
- 1.e The whole of the DTD must be contained in a single file called '**transactions.dtd**'
- 1.f At least 2 attributes and an entity used.

```
Transactions
  GiftShop
    Date
      Transaction
        ...Transaction and customer details
      Transaction
        ...Transaction and customer details
    Date
      Transaction
        ...Transaction and customer details
  GiftShop
    Date
      Transaction
        ...Transaction and customer details
    Date
      Transaction
        ...Transaction and customer details
```

XSLT

2 XSLT transformation and output files. One to export the XML data, the other to export the JSON data. Your XSLT files must be correctly formatted and be able to run against the XML supplied by the client. XML output. The contents of the XML file should contain the transactions and the relevant customer data, ordered by shop, then by date.

- The XSL file must be called '**transactions_to_xml.xsl**'
- The client has requested that XSLT v1.0 be used for compatibility with their systems
- The XML output file that is provided must be called '**output.xml**'
- The DTD must be referenced in output.xml
- The XML file must validate to the DTD
- The XML must contain a root element called '*transactions*'

- Provide comments in both the XSLT (and, where possible, the output files to explain your reasoning and working.)
- Run your XML and DTD through a validator and include a screen grab in a separate JPEG image called **validation_xml.jpeg** showing that they validate correctly.
- While there are a fixed number of records in the supplied data, the XSL file should be able to be accurately run against files of different length (shorter or longer) containing different data (but in the same structure) since the company is planning on using the system on an ongoing basis.

JSON

- 1.f.i The XSL file must be called 'transactions_to_json.xsl'
- 1.f.ii The output file must be called 'output.json'
- 1.f.iii Ensure you validate the resulting JSON file. include a screen grab in a separate JPEG image called **validation_json.jpeg**