Assignment 8 - Build XML Structure

XML script:

XML script has been attached below:



Link to validate above XML: https://www.xmlvalidation.com/

Screenshots of view of the tree from browsers of XML visualization tools:

Data Source: User Input Well-Formed XML 🗸

▼ Furniture

◆ Room (5)

	@ nameID	▼ length	▼ width
•	Saphire	20	40
•	Quartz	40	60
•	Emerald	50	30
•	Ruby	70	30
•	Jade	50	60

▲ Manufacturer (5)

	@ manufacturerID	▼name	▼ contact
•	id101	IKEA	(800) 434-4532
•	id102	Steelcase	(300) 494-2535
•	id103	TJX	(100) 454-8535
•	id104	NAU	(100) 464-9535
•	id105	Jardan	(100) 354-7535

Furnishing (7)

	@furnishingID	@ nameID	@ manufacturerID	▼ type
•	id201	Saphire	id101	Kitchen
•	id202	Quartz	id102	Sofas
•	id203	Saphire	id103	Chairs
•	id204	Saphire	id101	Tables
•	id205	Ruby	id102	Curtains
•	id206	Jade	id104	Bedding
•	id207	Ruby	id105	Chairs

```
furniture
room ..
     @nameID: Saphire
   length 20
   width 40
room ..
    @nameID: Quartz
   length 40
   width 60
room ..
     @nameID: Emerald
   length 50
   width 30
room ..
     @nameID: Ruby
   length 70
   width 30
room ..
     @nameID: Jade
   length 50
   width 60
manufacturer ...
     @manufacturerID: id101
   name IKEA
   contact (800) 434-4532
manufacturer ...
     @manufacturerID: id102
   name Steelcase
   contact (300) 494-2535
manufacturer ...
     @manufacturerID: id103
   name TJX
   contact (100) 454-8535
manufacturer ...
     @manufacturerID: id104
   name NAU
   contact (100) 464-9535
manufacturer ...
     @manufacturerID: id105
   name Jardan
   contact (100) 354-7535
furnishing ..
     @furnishingID: id201
     @nameID: Saphire
     @manufacturerID: id101
   type Kitchen
furnishing ...
     @furnishingID: id202
     @nameID: Quartz
     @manufacturerID: id102
   type Sofas
furnishing ...
     @furnishingID: id203
     @nameID: Saphire
     @manufacturerID: id103
   type Chairs
furnishing ...
     @furnishingID: id204
     @nameID: Saphire
     @manufacturerID: id101
   type Tables
furnishing ...
     @furnishingID: id205
     @nameID: Ruby
     @manufacturerID: id102
   type Curtains
furnishing ...
     @furnishinalD: id206
     @nameID: Jade
     @manufacturerID: id104
   type Bedding
furnishing ...
     @furnishingID: id207
     @nameID: Ruby
     @manufacturerID: id105
   type Chairs
```

Sample content demonstrates XML & DTD:

- One to many relationship between 'Room' and 'Furnishing' is shown: room '*Saphire'* has multiple furnishing ID's associated with it.
- One to many relationship between 'Manufacturer' and 'Furnishing' is shown: manufacturer 'id101' has multiple furnishing ID's associated with it.
- Room '*Emerald*' has no furnishing ID associated with it (1 to **0**..*), i.e. the case where a room is not associated with a furnishing is depicted (zero case).