XML Case Study

Case Study 1

A telecom company needs to transfer Order details across various applications. To transfer the data, designers have chosen the XML as file format. You need to design the XML for same and also to validate the XML structure needs to design the XSD.

The XML will content multiple order details, each order should have following details –

- Order ID (has to be unique and format must be OI-xxxx)
- Customer ID (Customer ID must be C-xxxxxx)
- Customer Name (Should contain only alphabets and space must have at least 10 chars)
- Plan (MUST)
- Service (MUST)
- (Customer can add or remove multiple services)
- Billing Cycle (must be either monthly, quarterly, half-yearly or yearly)
- Billing Address (Optional)
- Service Address (Must)

Case Study 2

Alonso Telecom Service provider is one of the largest organizations to maintain the Telecom data. It also provides various telecom services. They have various plans like; postpaid and pre-paid.

You need to design the XML for same also to validate the XML structure needs to design the XSD.

Task1

Create the xml document to store the details of prepaid or postpaid customer. The Xml will consists of

- Customer name
- Mobile number
- Plan type (Attribute)
- Total duration (in sec)
- Bill amount (in INR)

Task 2

Create an external XSD for above XML document with the following validations -

- Mobile number must be unique
- Customer name must be specified
- Plan type must be either pre-paid or post paid
- Total duration of the calls must not be 0
- Bill amount must be at least INR. 149
- At least 1 record of above type should must be present

Task 3

Create an XSD for above XML Document with the following validations

- Mobile number must be numeric
- Customer name must be character of max length size of 30
- Total duration must have minimum value 1 sec
- Bill amount must have default value as INR. 149.
- Bill amount have 2 digits after decimal points.
- All the elements must be in the given sequence.