Documenting XML API Exercise

Step 1: Request to record a TV program (1 of 3)

XML Sample

<recordTV>

Request to record a television program

Element		Description	Туре	Required	Notes
recordTV		Top Level Data on when a TV program should be recorded	TV record data	Required	
	date	TV program date	String	Optional	yyyy-mm-dd Default is current date
	time	TV Program start time	String	Required	Attribute: format either 24 (hours) or 12 (hours) Time is hh:mm or hh:mm am/pm
	duration	TV program length	Number	Required	Hours
	channel	Channel to record	Number	Required	

Step 2: Request to record a TV program (2 of 3)

XML Sample

Request to record a television program

E	lement	Attributes	Description	Туре	Required	Notes
r	recordTV		Top Level Data on when a TV program should be recorded	TV record data	Required	
	when		The date and time when the program starts	Date and time data	Required	
		date	TV program date	String	Optional	yyyy-mm-dd Default is current date
		time	TV Program start time	String	Required	If format is 24: hh:mm If format is 12: hh:mm followed by am/pm
		format	Either 12 or 24 hours	Number	Required	Value 12 or 24 hours
	duration		TV program length	Duration data		
		hours	TV program length in hours	Number	Required	
	station		The station to record	Station data	Required	
		channel	Channel to record	Number	Required	

Step 3: Temperature and humidity (multiple tables) (3 of 3)

XML Sample

```
<dailyData>
  <date>2021-06-01</date>
   <hourlyData>
      <time>10:00</time>
      <device>
         <id>34</id>
         <temperature>70</temperature>
         <humidity>11</humidity>
      </device>
      <device>
         <id>35</id>
         <temperature>72</temperature>
         <humidity>12</humidity>
      </device>
  </hourlyData>
   <hourlyData>
     <time>11:00</time>
      <device>
         <id>34</id>
         <temperature>71</temperature>
         <humidity>10</humidity>
      </device>
   </hourlyData>
</dailyData>
```

Top Level

Element	Description	Туре
dailyData	Temperature and humidity data for one day	Element

dailyData Element

Element	Description	Туре	Notes
date	Current date	String	yyyy-mm-dd
hourlyData	Temperature and humidity data for one hour	Element	

hourlyData Element

Element	Description	Туре	Notes
time	Local time temperature/h umidity was taken	String	hh:mm
device	Device objects with data from each device	Element	

device Element

Element	Description	Туре	Notes
id	Device ID	Number	
temperature	Measured temperature	Number	Fahrenheit
humidity	Measured humidity	Number	Percentage %