

CSC 2233-Internet Programming
Practical -XML

1.

- a. Create a simple XML file to Store Following Data

Name	Age	Marks
Ruvini	22	70
Kamani	23	65

- b. Open your file in a web browser
c. Check the correct format of your file (well formed) using free XML formatter (<https://www.liquid-technologies.com/online-xml-formatter>)

2. Given below is a page of menu given by a restaurant in hotel.

International Foods

Food name	Description	Price
Sushi	Japanese, raw fish filletcovering rice	\$ 9.95
Kimchi	Korean, pickled cabbage,very hot	\$4.95
Sesame	Chinese, fried chicken sweet	\$7.95

- a. Setup a DTD to describe the above menu –menu.dtd

Root element: menu

Sub elements: category (food category) 1 instance

item –1 to more instances.

For item: name – 1 instance, description – 1 instance, price - 1 instance..

- b. Create well-formed xml document for above data – menu.xml
c. Check the validity using the following validator URL

https://www.truugo.com/xml_validator/

3. Suppose the following are XML files written by a student. Define DTD that validates the XML file/s. Check the validity using online validator. Output of the browser is given in figure 1 and 2

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<student>
  <firstName>Luca</firstName>
  <lastName>Rossi</lastName>
  <id>281283</id>
  <plan>
    <courses year="3">
      <course>
        <name> Internet Programming </name>
        <shortName>COM3113</shortName>
        <record>
          <marks> 30</marks>
          <grade>D</grade>
        </record>
      </course>
      <course>
        <name>Programming Techniques</name>
        <shortName>COM3231</shortName>
      </course>
    </courses>
  </plan>
</student>
```

Output:

```

▼<student>
  <firstName>Luca</firstName>
  <lastName>Rossi</lastName>
  <id>281283</id>
  ▼<plan>
    ▼<courses year="3">
      ▼<course>
        <name> Internet Programming </name>
        <shortName>COM3113</shortName>
        ▼<record>
          <marks> 30</marks>
          <grade>D</grade>
        </record>
      </course>
      ▼<course>
        <name>Programming Techniques</name>
        <shortName>COM3231</shortName>
      </course>
    </courses>
  </plan>
</student>

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<movies>

<movie out="yes">

<name lang="en">Jungle Cruise</name>

<release>July 30, 2021 (USA)</release>

<imdb>7.0</imdb>

<boxoffice>600 M. USD</boxoffice>

<credits>&msg;</credits>

</movie>

<movie out="yes">

<name lang="en">Spider Man No Way Home</name>

<release>December 17, 2021 (USA)</release>

<imdb>8.8</imdb>

<boxoffice>1.5 B. USD</boxoffice>

<credits>&msg;</credits>

</movie>

</movies>

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  ▼<movie out="yes">
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    <release>July 30, 2021 (USA)</release>
    <imdb>7.0</imdb>
    <boxoffice>600 M. USD</boxoffice>
    <credits>Copyright movieSite</credits>
  </movie>
  ▼<movie out="yes">
    <name lang="en">Spider Man No Way Home</name>
    <release>December 17, 2021 (USA)</release>
    <imdb>8.8</imdb>
    <boxoffice>1.5 B. USD</boxoffice>
    <credits>Copyright movieSite</credits>
  </movie>
</movies>
```

Figure 2