

MODE 4201

Lab 3

Submitted On: October 14th 2022

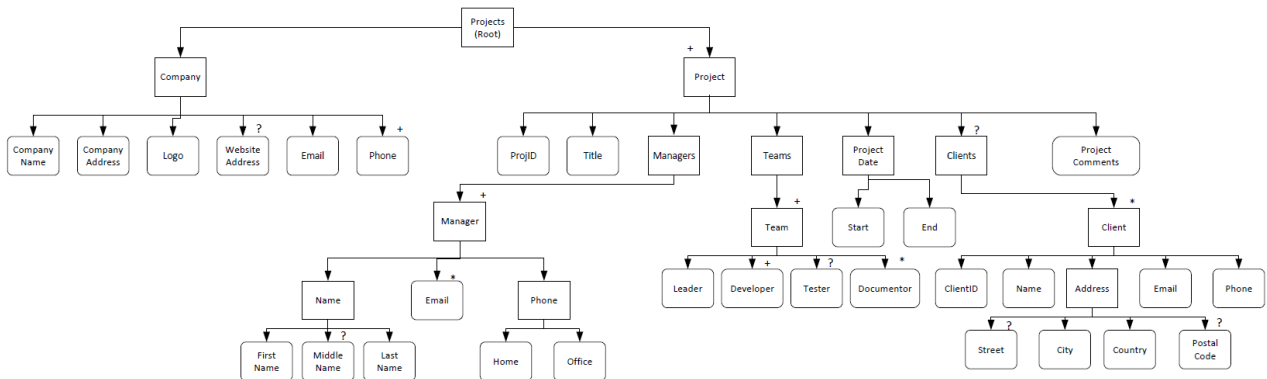
Submitted To: Prof. Mohammad Shamas

Submitted By: Drew Cross

Contents

XML Tree Diagram.....	3
DTD (projects.dtd)	3
XML Document (projects.xml).....	4
XML Validator Results.....	8
References.....	9

XML Tree Diagram



DTD (projects.dtd)

```
<!ELEMENT projects (company,project+)>
```

```
<!ELEMENT company (company_name, company_address, logo,
website_address?, email, phone+)>
```

```
<!ELEMENT company_name (#PCDATA)>
```

```
<!ELEMENT company_address (#PCDATA)>
```

```
<!ELEMENT logo (#PCDATA)>
```

```
<!ELEMENT website_address (#PCDATA)>
```

```
<!ELEMENT email (#PCDATA)>
```

```
<!ELEMENT phone (#PCDATA)>
```

```
<!ELEMENT project (title, managers, teams, clients?, project_date,
project_comments)>
```

```
<!ATTLIST project projID ID #REQUIRED>
```

```
<!ELEMENT title (#PCDATA)>
```

```
<!ELEMENT managers (manager+)>
```

```
<!ELEMENT manager (name, email*, manager_phone)>
```

```

<!ELEMENT name (first_name, middle_name*, last_name)>
<!ELEMENT first_name (#PCDATA)>
<!ELEMENT middle_name (#PCDATA)>
<!ELEMENT last_name (#PCDATA)>
<!ELEMENT manager_phone EMPTY>
<!ATTLIST manager_phone office CDATA #REQUIRED home CDATA #REQUIRED>

<!ELEMENT teams (team+)>
<!ELEMENT team (leader, developer+, tester?, documentor*)>
<!ELEMENT leader (#PCDATA)>
<!ELEMENT developer (#PCDATA)>
<!ELEMENT tester (#PCDATA)>
<!ELEMENT documentor (#PCDATA)>

<!ELEMENT clients (client*)>
<!ELEMENT client (name, address, email, phone)>
<!ATTLIST client clientID ID #REQUIRED>
<!ELEMENT address (street?, city, country, postal_code?)>
<!ELEMENT street (#PCDATA)>
<!ELEMENT city (#PCDATA)>
<!ELEMENT country (#PCDATA)>
<!ELEMENT postal_code (#PCDATA)>

<!ELEMENT project_date EMPTY>
<!ATTLIST project_date start CDATA #REQUIRED end CDATA #REQUIRED>
<!ELEMENT project_comments (#PCDATA)>

```

XML Document (projects.xml)

```

<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE projects SYSTEM "projects.dtd">

```

```

<projects>
  <company>
    <company_name>Company1</company_name>
    <company_address>1 Street</company_address>
    <logo>company1_logo.png</logo>
    <website_address>www.company1.com</website_address>
    <email>name@company1.com</email>
    <phone>905-123-1234</phone>
  </company>

  <project projID="P1">
    <title>Project 1</title>
    <managers>
      <manager>
        <name>
          <first_name>Jane</first_name>
          <middle_name>A.</middle_name>
          <last_name>Doe</last_name>
        </name>
        <email>jane@company1.com</email>
        <manager_phone office="111-222-3333" home="333-222-
1111"/>
      </manager>
    </managers>
    <teams>
      <team>
        <leader>John Doe</leader>
        <developer>Timmy Tom</developer>
        <tester>Matt Test</tester>
        <documentor>Ricky Bobby</documentor>
      </team>
    </teams>
  </project>
</projects>

```

```

</teams>
<clients>
  <client clientID="C1">
    <name>
      <first_name>Client</first_name>
      <middle_name>Number</middle_name>
      <last_name>1</last_name>
    </name>
    <address>
      <street>2 Street</street>
      <city>1 city</city>
      <country>1 Country</country>
      <postal_code>A1A 1A1</postal_code>
    </address>
    <email>clientnumber1@gmail.com</email>
    <phone>777-888-9999</phone>
  </client>
</clients>
<project_date start="2022-09-07" end="2022-12-16"/>
<project_comments>Comments</project_comments>
</project>
<project projID="P2">
  <title>Project 1</title>
  <managers>
    <manager>
      <name>
        <first_name>Jane</first_name>
        <middle_name>A.</middle_name>
        <last_name>Doe</last_name>
      </name>

```

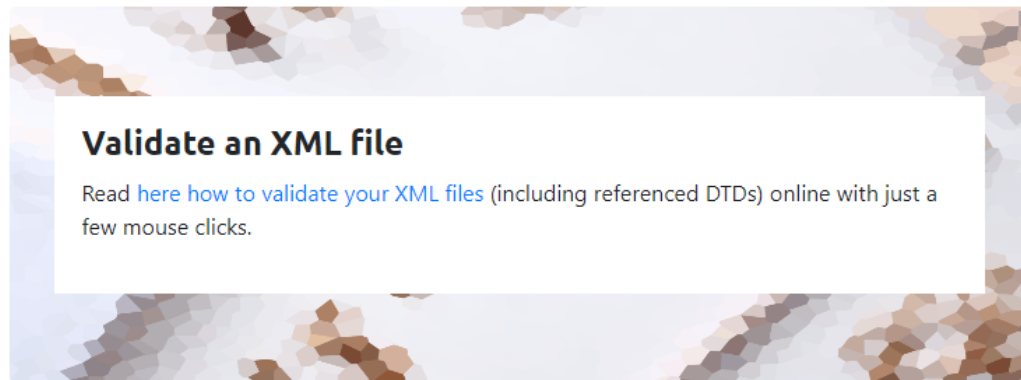
```

        <email>jane@company1.com</email>
        <manager_phone office="111-222-3333" home="333-222-
1111"/>
    </manager>
</managers>
<teams>
    <team>
        <leader>John Doe</leader>
        <developer>Timmy Tom</developer>
        <tester>Matt Test</tester>
        <documentor>Ricky Bobby</documentor>
    </team>
</teams>
<clients>
    <client clientID="C2">
        <name>
            <first_name>Client</first_name>
            <middle_name>Number</middle_name>
            <last_name>2</last_name>
        </name>
        <address>
            <street>4 Street</street>
            <city>2 city</city>
            <country>1 Country</country>
            <postal_code>B1B 1B1</postal_code>
        </address>
        <email>clientnumber2@gmail.com</email>
        <phone>776-888-9999</phone>
    </client>
</clients>
<project_date start="2022-09-07" end="2022-12-16"/>

```


```
<project_comments>Comments</project_comments>
</project>
</projects>
```

XML Validator Results



No errors were found

The following files have been uploaded so far:

[XML document:](#) 

[projects.dtd](#) 

Click on any file name if you want to edit the file.

References

W3Schools. (n.d, n.d n.d). *DTD Tutorial*. Retrieved from W3Schools:
https://www.w3schools.com/xml/xml_dtd_intro.asp

XML Validation. (n.d, n.d n.d). *Validate an XML File*. Retrieved from XML Validation:
<https://www.xmlvalidation.com/index.php?id=1&L=0>