Lab 3 Report

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Course Code: MODE-4201

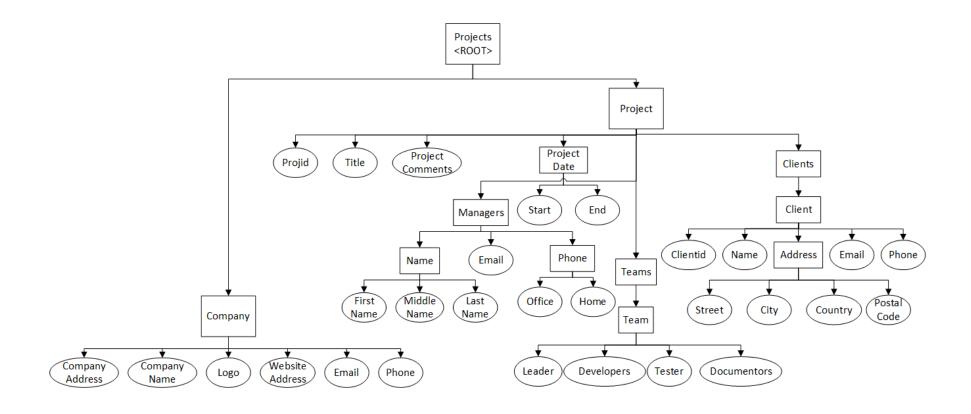
Date: October 12th, 2022

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XML Tree Diagram



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DTD File Contents

<!ELEMENT projects (company, project+)> <!ELEMENT company (companyName, companyAddress, companyLogo, website?, email, phone+)> <!ELEMENT companyName (#PCDATA)> <!ELEMENT companyAddress (#PCDATA)> <!ELEMENT companyLogo (#PCDATA)> <!ELEMENT website (#PCDATA)> <!ELEMENTemail (#PCDATA)> <!ELEMENT phone (#PCDATA)> <!ELEMENT project (title, comments, projectDate, managers, teams, clients?)> <!ATTLIST project projId ID #REQUIRED> <!ELEMENT title (#PCDATA)> <!ELEMENT comments (#PCDATA)> <!ELEMENT projectDate EMPTY> <!ATTLIST projectDate start CDATA #REQUIRED> <!ATTLIST projectDate end CDATA #REQUIRED> <!ELEMENT managers (manager+)> <!ELEMENT manager (name, managerPhone, email*)> <!ELEMENT name (firstName, middleName?, lastName)> <!ELEMENT firstName (#PCDATA)> <!ELEMENT middleName (#PCDATA)> <!ELEMENT lastName (#PCDATA)> <!ELEMENT managerPhone EMPTY>

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```
<!ATTLIST managerPhone office CDATA #IMPLIED>
<!ATTLIST managerPhone home CDATA #IMPLIED>
<!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 (clientName, address, email, phone)>
<!ATTLIST client clientId ID #REQUIRED>
<!ELEMENT clientName (#PCDATA)>
<!ELEMENT address (street?, city, country, postalCode?)>
<!ELEMENT street (#PCDATA)>
<!ELEMENT city (#PCDATA)>
<!ELEMENT country (#PCDATA)>
<!ELEMENT postalCode (#PCDATA)>
XML File Contents
<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE projects SYSTEM "projects.dtd">
cts>
       <company>
              <companyName>Company1</companyName>
              <companyAddress>123 Apple St.</companyAddress>
              <companyLogo>company1_logo.png</companyLogo>
              <website>www.company1.com</website>
              <email>reprasentative@company1.com</email>
```

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```
<phone>905-222-1234</phone>
       <phone>416-222-1234</phone>
</company>
project projId="P01">
       <title>project title</title>
      <comments>these are the comments</comments>
       ctDate start="2022-01-01" end="2022-12-25"/>
       <managers>
              <manager>
                     <name>
                            <firstName>John</firstName>
                            <middleName>A.</middleName>
                            <lastName>Doe</lastName>
                     </name>
                     <managerPhone office="111-222-3334" home="123-456-7890" />
                     <email>john@company1.com</email>
              </manager>
       </managers>
       <teams>
              <team>
                     <leader>John C. Reily</leader>
                     <developer>Devon Baker</developer>
                     <tester>Tessa Blake</tester>
                     <documentor>Andrew Taylor</documentor>
              </team>
       </teams>
       <clients>
              <cli>client clientId="C01">
                     <cli>clientName>Client1</clientName>
```

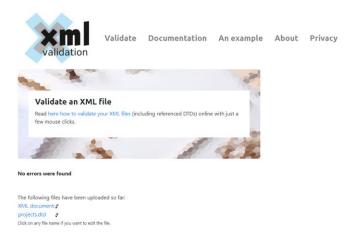
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```
<address>
                            <street>1 Bloor St.</street>
                            <city>Toronto</city>
                            <country>Canada</country>
                            <postalCode>A1A 1A1</postalCode>
                     </address>
                     <email>client1@gmail.com</email>
                     <phone>416-222-3344</phone>
              </client>
       </clients>
</project>
project projId="P02">
       <title>project title</title>
       <comments>these are the comments</comments>
       ctDate start="2022-02-01" end="2023-02-01"/>
       <managers>
              <manager>
                     <name>
                            <firstName>Jane</firstName>
                            <lastName>Doe</lastName>
                     </name>
                     <managerPhone office="111-222-3334" home="123-456-7890" />
              </manager>
       </managers>
       <teams>
              <team>
                     <leader>John C. Reily</leader>
                     <developer>Devon Baker</developer>
                     <developer>Cody Jackson</developer>
```

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```
</team>
</team>
</teams>
<clients>
<client clientId="C02">
<clientName>Client 2</clientName>
<address>
<city>Toronto</city>
<country>Canada</country>
</address>
<email>client2@gmail.com</email>
<phone>905-999-8887</phone>
</client>
</clients>
</project>
</projects>
```

XML Validation



References

https://www.w3schools.com/xml/xml_dtd_intro.asp

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https://www.w3schools.com/xml/xml dtd building.asp
https://www.w3schools.com/xml/xml dtd elements.asp
https://www.w3schools.com/xml/xml dtd attributes.asp
https://www.w3schools.com/xml/xml dtd el vs attr.asp
https://www.w3schools.com/xml/xml dtd examples.asp

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