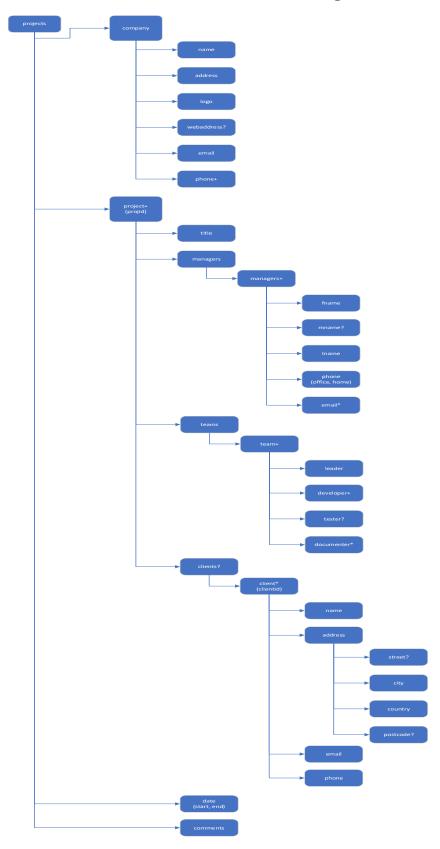
# Lab 3: XML and Related Technologies Tyler Henry MODE 4201



### **Table of Contents**

io XML Diagram	3
D	4
IL Document	5
II Validation	q

## XML Diagram



#### DTD

```
<!ELEMENT projects (company, project+)>
<!ELEMENT company (com_name, com_address, logo, webaddress?, com_email, com_phone)>
<!ELEMENT com_name (#PCDATA)>
<!ELEMENT com_address (#PCDATA)>
<!ELEMENT logo (#PCDATA)>
<!ELEMENT webaddress (#PCDATA)>
<!ELEMENT com_email (#PCDATA)>
<!ELEMENT com phone (#PCDATA)>
<!ATTLIST project projid ID #REQUIRED>
<!ELEMENT project (title, managers, teams, clients?, date, comments)>
<!ELEMENT title (#PCDATA)>
<!ELEMENT managers (manager+)>
<!ELEMENT manager (fname, mname?, lname, man phone, man email*)>
<!ELEMENT fname (#PCDATA)>
<!ELEMENT mname (#PCDATA)>
<!ELEMENT lname (#PCDATA)>
<!ELEMENT man_phone EMPTY>
<!ATTLIST man phone
     office CDATA #REQUIRED
     home CDATA #REQUIRED
<!ELEMENT man_email (#PCDATA)>
<!ELEMENT teams (team+)>
<!ELEMENT team (leader, developer+, tester?, documenter*)>
<!ELEMENT leader (#PCDATA)>
<!ELEMENT developer (#PCDATA)>
<!ELEMENT tester (#PCDATA)>
<!ELEMENT documenter (#PCDATA)>
<!ELEMENT clients (client*)>
<!ATTLIST client clientid ID #REQUIRED>
<!ELEMENT client (cli name, cli address, cli email, cli phone)>
<!ELEMENT cli name (#PCDATA)>
<!ELEMENT cli_address (street?, city, country, postcode?)>
<!ELEMENT street (#PCDATA)>
<!ELEMENT city (#PCDATA)>
<!ELEMENT country (#PCDATA)>
<!ELEMENT postcode (#PCDATA)>
<!ELEMENT cli email (#PCDATA)>
<!ELEMENT cli_phone (#PCDATA)>
<!ELEMENT date EMPTY>
<!ATTLIST date
     start CDATA #REQUIRED
     end CDATA #REQUIRED
<!ELEMENT comments (#PCDATA)>
```

#### **XML Document**

```
<?xml version="1.0" encoding = "utf-8"?>
<!DOCTYPE projects SYSTEM "projects.dtd">
cts>
                 <company>
                                  <com_name>TyINC</com_name>
                                  <com_address>4 Third Street</com_address>
                                  <logo>logo.jpg</logo>
                                  <webaddress>www.TyINC.ca</webaddress>
                                  <com_email>TyINC@gmail.com</com_email>
                                  <com_phone>9054368924</com_phone>
                 </company>
                 oject projid = "P01">
                                  <title>Mobile Paint App</title>
                                  <managers>
                                          <manager>
                                                           <fname>Tim</fname>
                                                           <mname>Todd</mname>
                                                           <lname>Tanner</lname>
                                                           <man phone home="9053465751"
office="6473045751"></man_phone>
                                                           <man_email>TTT@gmail.ca</man_email>
                                          </manager>
                                  </managers>
                                  <teams>
                                          <team>
                                                   <leader>Billy Bob</leader>
                                                   <developer>Shirley Cane</developer>
                                                   <tester>Franky Jim</tester>
                                                   <documenter>Doc Taylor</documenter>
```

```
</teams>
                                    <clients>
                                             <cli>client clientid = "C01">
                                                      <cli_name>Apple</cli_name>
                                                      <cli_address>
                                                               <street>234 First Street</street>
                                                               <city>Miami</city>
                                                               <country>USA</country>
                                                               <postcode>L1J6J3</postcode>
                                                      </cli_address>
                                                      <cli_email>apple@bing.com</cli_email>
                                                      <cli_phone>9056463248</cli_phone>
                                             </client>
                                    </clients>
                                    <date start="10/15/22" end="10/31/22"></date>
                                    <comments>Bill needs to pick up the slack</comments>
                  </project>
                  project projid = "P02">
                                    <title>Banking App</title>
                                    <managers>
                                             <manager>
                                                               <fname>Kent</fname>
                                                               <name>Kerry</name>
                                                               <man_phone office ="9053542507" home
="9053252157"></man_phone>
                                                               <man_email>KKerry@gmail.ca</man_email>
```

</team>

```
</managers

</managers>

<teams>

<team>

<leader>Blake Shelf</leader>
<developer>Sam Snail</developer>
<tester>Franky Jim</tester>
<documenter>Doc Taylor</documenter>

</team>

</team>

</teams>
<date start="10/27/22" end="11/15/22"></date>
<comments>Everything is broken</comments>

</projects>
```

```
<?xml version="1.0" encoding="UTF-8"?>
 <!DOCTYPE projects SYSTEM "projects.dtd">
- cts>
   <company>
        <com_name>TyINC</com_name>
        <com_address>4 Third Street</com_address>
        <logo>logo.jpg</logo>
        <webaddress>www.TyINC.ca</webaddress>
        <com_email>TyINC@gmail.com</com_email>
        <com_phone>9054368924</com_phone>
    </company>
   - - project projid="P01">
        <title>Mobile Paint App</title>

    <managers>

          - <manager>
               <fname>Tim</fname>
               <mname>Todd</mname>
               <Iname>Tanner</Iname>
               <man_phone office="6473045751" home="9053465751"/>
               <man_email>TTT@gmail.ca</man_email>
           </manager>
        </managers>
      - <teams>
          - <team>
               <leader>Billy Bob</leader>
               <developer>Shirley Cane</developer>
               <tester>Franky Jim</tester>
               <documenter>Doc Taylor</documenter>
           </team>
        </teams>
      - <clients>
          - <cli>client clientid="C01">
               <cli_name>Apple</cli_name>

    <cli_address>

                  <street>234 First Street</street>
                  <city>Miami</city>
                  <country>USA</country>
                  <postcode>L1J6J3</postcode>
               </cli_address>
               <cli_email>apple@bing.com</cli_email>
               <cli_phone>9056463248</cli_phone>
           </client>
        </clients>
        <date end="10/31/22" start="10/15/22"/>
        <comments>Bill needs to pick up the slack</comments>
     </project>
   - - project projid="P02">
        <title>Banking App</title>

    <managers>

          - <manager>
               <fname>Kent</fname>
               <lname>Kerry</lname>
               <man_phone office="9053542507" home="9053252157"/>
               <man_email>KKerry@gmail.ca</man_email>
           </manager>
        </managers>
      - <teams>

    <team>

               <leader>Blake Shelf</leader>
               <developer>Sam Snail</developer>
               <tester>Franky Jim</tester>
               <documenter>Doc Taylor</documenter>
           </team>
        </teams>
        <date end="11/15/22" start="10/27/22"/>
        <comments>Everything is broken</comments>
     </project>
 </projects>
```

#### No errors were found

The following files have been uploaded so far XML document:  $\theta$  projects.dtd  $\theta$ 

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