Lab 3

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Durham College

MODE 4201

Contents

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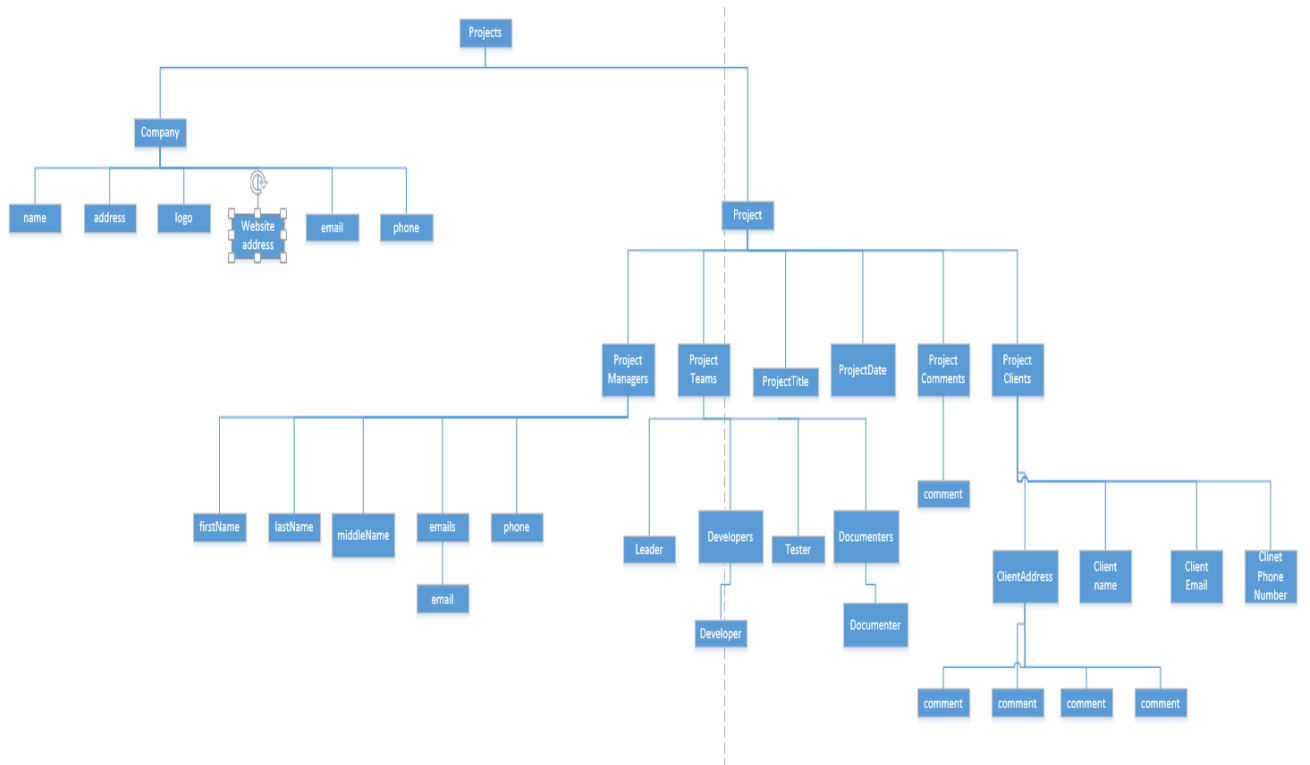
XML TREE DIAGRAM

Projects.xml

```
Projects
├── Company
│   ├── name
│   ├── address
│   ├── logo
│   ├── Website address
│   ├── email
│   └── phone
└── Project
    ├── Project Managers
    │   ├── firstName
    │   ├── lastName
    │   ├── middleName
    │   ├── emails
    │   │   └── email
    │   └── phone
    ├── Project Teams
    │   ├── Leader
    │   ├── Developers
    │   │   └── Developer
    │   ├── Tester
    │   └── Documenters
    │       └── Documenter
    ├── ProjectTitle
    ├── ProjectDate
    ├── Project Comments
    │   └── comment
    └── Project Clients
        ├── ClientAddress
        │   ├── comment
        │   ├── comment
        │   ├── comment
        │   └── comment
        ├── Client name
        ├── Client Email
        └── Clinet Phone Number
```

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

<!ELEMENT company (companyName, companyAddress, companyLogo, websiteAddress?, com
panyEmail, companyPhone+)>
<!ELEMENT companyName (#PCDATA)>
<!ELEMENT companyAddress (#PCDATA)>
<!ELEMENT companyLogo (#PCDATA)>
<!ELEMENT websiteAddress (#PCDATA)>
<!ELEMENT companyEmail (#PCDATA)>
<!ELEMENT companyPhone (#PCDATA)>

<!ELEMENT project (projectTitle, managers, teams, clients?, projectDate, projectC
omments)>
<!ATTLIST project projectId CDATA #REQUIRED>
<!ELEMENT projectTitle (#PCDATA)>

<!ELEMENT managers (manager+)>
<!ELEMENT manager (managerFirstName, managerLastName, managerMiddleName?, manager
Phone, managerEmails)>
<!ELEMENT managerFirstName (#PCDATA)>
<!ELEMENT managerLastName (#PCDATA)>
<!ELEMENT managerMiddleName (#PCDATA)>
<!ELEMENT managerPhone (#PCDATA)>
<!ATTLIST managerPhone home CDATA #REQUIRED office CDATA #REQUIRED>
<!ELEMENT managerEmails (managerEmail*)>

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

<!ELEMENT clients (client*)>
<!ELEMENT client (clientName, clientAddress, clientEmail, clientPhone)>
<!ATTLIST client clientId CDATA #REQUIRED>
<!ELEMENT clientName (#PCDATA)>
<!ELEMENT clientAddress (street?, city, country, postalCode?)>
<!ELEMENT street (#PCDATA)>
<!ELEMENT city (#PCDATA)>
```

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```
<!ELEMENT country (#PCDATA)>
<!ELEMENT postalCode (#PCDATA)>
<!ELEMENT clientEmail (#PCDATA)>
<!ELEMENT clientPhone (#PCDATA)>

<!ELEMENT projectDate (#PCDATA)>
<!ATTLIST projectDate start CDATA #REQUIRED end CDATA #REQUIRED>
<!ELEMENT projectComments (projectComment*)>
<!ELEMENT comment (#PCDATA)>
```

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Company Details

Projects.xml

```xml
▼<projects>
  ▼<company>
      <companyName>Durham College</companyName>
      <companyAddress>2000 Simcoe Street</companyAddress>
      <companyLogo>dc-logo.png</companyLogo>
      <websiteAddress>www.durhamcollege.ca</websiteAddress>
      <companyEmail>DurhamCollege@dcmail.ca</companyEmail>
      <companyPhone>905 882 5546</companyPhone>
  </company>
```

Project Details

Projects.xml

```xml
</company>
▼<project projectId="1">
    <projectTitle>AI/Hub</projectTitle>
  ▼<managers>
    ▼<manager>
        <managerFirstName>Amit</managerFirstName>
        <managerLastName>Maraj</managerLastName>
        <managerMiddleName>K</managerMiddleName>
        <managerPhone office="905 442 3456" home="905 442 3459">9054423245</managerPhone>
      ▼<managerEmails>
          <managerEmail>amitmaraj@dcfaculty.ca</managerEmail>
          <managerEmail>second@live.ca</managerEmail>
      </managerEmails>
    </manager>
  </managers>
  ▼<teams>
    ▼<team>
        <leader>Connlaoi</leader>
      ▼<developers>
          <developer>Blake</developer>
          <developer>Jake</developer>
      </developers>
        <tester>Chris</tester>
      ▼<documenters>
          <documenter>Ronny MacDolland</documenter>
          <documenter>Wendy mcWicken</documenter>
      </documenters>
    </team>
  </teams>
  ▼<clients>
    ▼<client clientId="1">
        <clientName>Mark Emmery</clientName>
      ▼<clientAddress>
          <street>420 high street</street>
          <city>Oshawa</city>
          <country>Canada</country>
          <postalCode>L1N 420</postalCode>
      </clientAddress>
        <clientEmail>Memmery420@hotmail.com</clientEmail>
        <clientPhone>905 420 4208</clientPhone>
    </client>
  </clients>
```

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Project Details Continued..

Projects.xml

```xml
▼<clients>
  ▼<client clientId="1">
      <clientName>Mark Emmery</clientName>
    ▼<clientAddress>
       <street>420 high street</street>
       <city>Oshawa</city>
       <country>Canada</country>
       <postalCode>L1N 420</postalCode>
      </clientAddress>
      <clientEmail>Memmery420@hotmail.com</clientEmail>
      <clientPhone>905 420 4208</clientPhone>
    </client>
  </clients>
  <projectDate start="12/31/19" end="12/31/20"/>
  ▼<projectComments>
     <projectComment>Great comment</projectComment>
     <projectComment>Better comment</projectComment>
    </projectComments>
  </project>
▶<project projectId="2">...</project>
</projects>
```

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XML With XSL & DTD

Project.xml with projects.xsl

Company Details

Projects.xml

← → C ⌂ ① 127.0.0.1:5500/projects.xml	☆

Company Name: Durham College

Company Address: 2000 Simcoe Street

Company Website Address: www.durhamcollege.ca

Company Email: DurhamCollege@dcmail.ca

Company Phone: 905 882 5546

Project Details

Projects.xml

← → C ⌂ ① 127.0.0.1:5500/projects.xml	☆

Project Details

Project ID: 1

Project Title: AI/Hub

Project Start Date: 12/31/19

Project End Date: 12/31/20

Project Comment: Great comment

Project Comment: Better comment

Project Managers

First Name	Last Name	Middle Name	Phone	Email
Amit	Maraj	K	905 442 3459 905 442 3456	amitmaraj@dcfaculty.ca second@live.ca

Project Teams

Leader	Developers	Tester	Documenters
Connlaoi	Blake Jake	Chris	Ronny MacDolland Wendy mcWicken

Project Clients

Name	Address	Email	Phone
Mark Emmery	420 high street Oshawa Canada L1N 420	Memmery420@hotmail.com	905 420 4208

Project Details Continued..

Projects.xml

← → C ⌂ | ⓘ 127.0.0.1:5500/projects.xml | ☆

Project Details

Project ID: 2

Project Title: CFCE

Project Start Date: 01/01/19

Project End Date: 12/31/19

Project Comment: Tough but fun

Project Comment: Nice clients 10/10

Project Managers

First Name	Last Name	Middle Name	Phone	Email
Vibha	Tyagi	G	416 870 1234 905 111 2345	vibhaT2@dcfaculty.ca vibha@dcfaculty.ca

Project Teams

Leader	Developers	Tester	Documenters
Blake	ConnLaoi Clint Maccy	Taylor	Chris mac Mand Indigo

Project Clients

Name	Address	Email	Phone
Sushi today	123 simcoe road oshawa Canada L1N 969	sushi@email.com	905 345 6789

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References

Typke, R. (n.d.). Validate an XML file. Retrieved from https://www.xmlvalidation.com/

Displaying XML. (n.d.). Retrieved from https://www.w3schools.com/xml/xml_display.asp