

**Lab 3**  
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**MODE – 4201**



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## Tree Diagram



## Projects.dtd code

```
<!-- projects.dtd -->
<!-- DTD for Projects -->
<!ELEMENT projects (company, project+)>

<!ELEMENT company (companyname, companyaddress, companylogo, companywebsite?,
companyemail, companyphone+)>
<!ELEMENT companyname (#PCDATA)>
<!ELEMENT companyaddress (#PCDATA)>
<!ELEMENT companylogo (#PCDATA)>
<!ELEMENT companywebsite (#PCDATA)>
<!ELEMENT companyemail (#PCDATA)>
<!ELEMENT companyphone (#PCDATA)>

<!ELEMENT project (title, managers, teams, clients?, projectdate, comments)>
<!ATTLIST project projid ID #REQUIRED>
<!ELEMENT title (#PCDATA)>

<!ELEMENT managers (manager+)>
<!ELEMENT manager (firstname, middlename?, lastname, managerphone, email*)>
<!ELEMENT firstname (#PCDATA)>
<!ELEMENT middlename (#PCDATA)>
<!ELEMENT lastname (#PCDATA)>
<!ATTLIST managerphone office CDATA #IMPLIED
                    home    CDATA #IMPLIED>
<!ELEMENT managerphone EMPTY>
<!ELEMENT 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*)>
<!ELEMENT client (name, address, clientemail, clientphone)>
<!ATTLIST client clientid ID #REQUIRED>
<!ELEMENT name (#PCDATA)>
<!ELEMENT address (street, city, country, postcode)>
<!ELEMENT street (#PCDATA)>
<!ELEMENT city (#PCDATA)>
<!ELEMENT country (#PCDATA)>
<!ELEMENT postcode (#PCDATA)>
<!ELEMENT clientemail (#PCDATA)>
<!ELEMENT clientphone (#PCDATA)>

<!ATTLIST projectdate start CDATA #IMPLIED
                    end    CDATA #IMPLIED>
<!ELEMENT projectdate EMPTY>
<!ELEMENT comments (#PCDATA)>
```

## Projects.xml code

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- projects.xml -->
<!-- Day Projects XML document -->
<!DOCTYPE projects SYSTEM "projects.dtd">

<projects>

  <company>
    <companyname>Ekitai Data Inc.</companyname>
    <companyaddress>611 Galahad Dr #68, Oshawa, ON L1K 1M1</companyaddress>
    <companylogo>E:\Windows Work Backup\Semester
5\MODE\Lab3\img\ekitai_final_logo.png</companylogo>
    <companywebsite>https://ekit.ai</companywebsite>
    <companyemail>info@ekit.ai</companyemail>
    <companyphone>+1-626-616-2194</companyphone>
  </company>

  <project projid="P01">
    <title> Database Creation </title>

    <managers>
      <manager>
        <firstname>John</firstname>
        <middlename>l</middlename>
        <lastname>Kennefy</lastname>
        <managerphone office="985-526-4141" home="985-526-5151"/>
        <email>johnk@ekit.ai</email>
      </manager>
    </managers>

    <teams>
      <team>
        <leader>Jayram Rajpoot</leader>
        <developer>Urvil Patel</developer>
        <tester>Khilji Maharaj</tester>
        <documenter>Casey Ocean</documenter>
      </team>
    </teams>

    <clients>
      <client clientid="C01">
        <name>Jetal Pur</name>
        <address>
          <street>1234 Steeles St</street>
          <city>Brampton, Ontario</city>
          <country>Canada</country>
          <postcode>L1G 0E7</postcode>
        </address>
        <clientemail>jetalpur@example.com</clientemail>
        <clientphone>565-478-9895</clientphone>
      </client>
    </clients>
  </project>
</projects>
```

```

    </client>
  </clients>

  <projectdate start="02-09-2020" end="02-10-2022" />

  <comments> We solely focus on providing great services on AI and we
condemn on our commitment. </comments>
</project>

<project projid="P02">
  <title> Save Water Web Application </title>

  <managers>
    <manager>
      <firstname>Dhruv</firstname>
      <middlename>A</middlename>
      <lastname>Patel</lastname>
      <managerphone office="905-260-1000" home="985-555-2222"/>
      <email>dhruv.patel14@dcmail.ca</email>
    </manager>
  </managers>

  <teams>
    <team>
      <leader>Yash Patel</leader>
      <developer>Aman Patel</developer>
      <tester>Parth Patel</tester>
      <documenter>Advait Patel</documenter>
    </team>
  </teams>

  <clients>
    <client clientid="C02">
      <name>Surat Nagari</name>
      <address>
        <street>1772 Finkle Dr</street>
        <city>Brampton, Ontario</city>
        <country>Canada</country>
        <postcode>L3G 9J3</postcode>
      </address>
      <clientemail>suratnagari@example.com</clientemail>
      <clientphone>565-212-2548</clientphone>
    </client>
  </clients>

  <projectdate start="02-10-2019" end="10-08-2022" />

  <comments> We focusing on making website which gives valuable information
to the audience about saving water. </comments>
</project>

</projects>

```

## XML Validation Confirmation

[Validate](#)[Documentation](#)[An example](#)

### Validate an XML file

Read [here how to validate your XML files](#) (including referenced DTDs) online with just a few mouse clicks.

**No errors were found**

The following files have been uploaded so far:

[XML document:](#)

[projects.dtd](#)