

Lab 3 - XML and Related Technologies

MODE 5202



October 8, 2021

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Disclaimer: I have simply copy pasted all text from projects.dtd and projects.xml into this document, however downloadable links for each file can be found on the lab 3 page of my MODE website.

A screenshot of a computer

Description automatically generated with low confidencePart a)

part b)

<!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 EMPTY>

<!ATTLIST logo img CDATA #REQUIRED>

<!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, proj\_phone, email\*)>

<!ELEMENT name (first\_name, middle\_name?, last\_name)>

<!ELEMENT first\_name (#PCDATA)>

<!ELEMENT middle\_name (#PCDATA)>

<!ELEMENT last\_name (#PCDATA)>

<!ELEMENT proj\_phone (#PCDATA)>

<!ATTLIST proj\_phone type (home | office) #REQUIRED>

<!ELEMENT email (#PCDATA)>

<!ELEMENT teams (team+)>

<!ELEMENT team (leader, developers+, tester?, documenters\*)>

<!ELEMENT leader (#PCDATA)>

<!ELEMENT developers (#PCDATA)>

<!ELEMENT tester (#PCDATA)>

<!ELEMENT documenters (#PCDATA)>

<!ELEMENT clients (client+)>

<!ELEMENT client (client\_name, address, email, phone)>

<!ATTLIST client clientID ID #REQUIRED>

<!ELEMENT client\_name (#PCDATA)>

<!ELEMENT address (street?, city, country, postcode?)>

<!ELEMENT street (#PCDATA)>

<!ELEMENT city (#PCDATA)>

<!ELEMENT country (#PCDATA)>

<!ELEMENT postcode (#PCDATA)>

<!ELEMENT email (#PCDATA)>

<!ELEMENT phone (#PCDATA)>

<!ELEMENT project\_date (start, end)>

<!ELEMENT start (#PCDATA)>

<!ELEMENT end (#PCDATA)>

<!ELEMENT project\_comments (#PCDATA)>

Part c)

<?xml version="1.0"?>

<!DOCTYPE projects SYSTEM "projects.dtd">

<projects>

<company>

<company\_name>

Mosbius Designs

</company\_name>

<company\_address>

366 MacLaren St

</company\_address>

<logo img="Berserker\_Armour.jpg"/>

<website\_address>

https://mosbius-Designs.com

</website\_address>

<email>

tedMosby@gmail.com

</email>

<phone>

289-555-1844

</phone>

</company>

<project projId="ProjectID1">

<title>

Cowboy Hat Building

</title>

<managers>

<manager>

<name>

<first\_name>

Michael

</first\_name>

<middle\_name>

Gary

</middle\_name>

<last\_name>

Scott

</last\_name>

</name>

<proj\_phone type="home">

289-555-0099

</proj\_phone>

<email>

MScott@dunder.com

</email>

</manager>

</managers>

<teams>

<team>

<leader>

Greg Smith

</leader>

<developers>

Hank Pim

</developers>

<developers>

Jimmy Dean

</developers>

<tester>

Fred Frederson

</tester>

<documenters>

Val Kilmer

</documenters>

</team>

</teams>

<clients>

<client clientID="ClientID1">

<client\_name>

George McVaine

</client\_name>

<address>

<street>

22 Heart St

</street>

<city>

Oshawa

</city>

<country>

Canada

</country>

<postcode>

L9L2G4

</postcode>

</address>

<email>

GMV@gmail.com

</email>

<phone>

999-555-1234

</phone>

</client>

</clients>

<project\_date>

<start>

June 2, 2018

</start>

<end>

April 16, 2020

</end>

</project\_date>

<project\_comments>

A building shaped like a giant cowboy hat for a local steakhouse.

</project\_comments>

</project>

<project projId="ProjectID2">

<title>

Redesign Apartment

</title>

<managers>

<manager>

<name>

<first\_name>

Michael

</first\_name>

<middle\_name>

Gary

</middle\_name>

<last\_name>

Scott

</last\_name>

</name>

<proj\_phone type="home">

289-555-0099

</proj\_phone>

<email>

MScott@dunder.com

</email>

</manager>

<manager>

<name>

<first\_name>

Tessa

</first\_name>

<middle\_name>

Leah

</middle\_name>

<last\_name>

Davidson

</last\_name>

</name>

<proj\_phone type="office">

289-555-0129

</proj\_phone>

<email>

TLD@dunder.com

</email>

</manager>

</managers>

<teams>

<team>

<leader>

Frank Lynn

</leader>

<developers>

Hank Pim

</developers>

<developers>

George Lopez

</developers>

<tester>

Jessica Day

</tester>

<documenters>

Martha Stewart

</documenters>

</team>

</teams>

<clients>

<client clientID="ClientID2">

<client\_name>

Ilya Mikheyev

</client\_name>

<address>

<street>

998 Heart St

</street>

<city>

Ottawa

</city>

<country>

Canada

</country>

<postcode>

L7D1K9

</postcode>

</address>

<email>

IM@gmail.com

</email>

<phone>

909-555-9725

</phone>

</client>

</clients>

<project\_date>

<start>

May 9, 2019

</start>

<end>

March 11, 2020

</end>

</project\_date>

<project\_comments>

Redesigning an apartment.

</project\_comments>

</project>

</projects>

Part d)

Graphical user interface, text

Description automatically generated