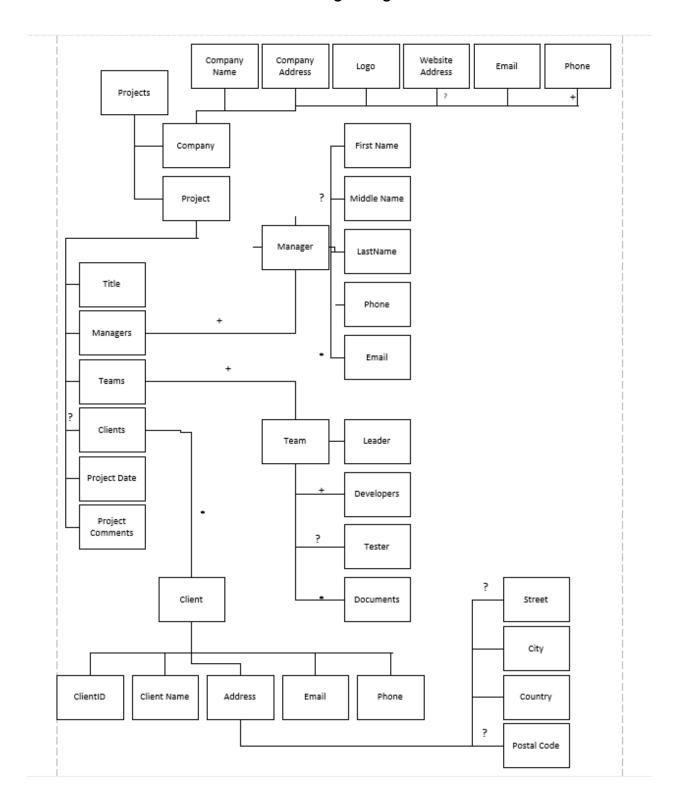


XML and Related Technologies Jonathon Wager 100698641

XML DesignDiagram



XML

```
<?xml version= "1.0" encoding ="utf-8"?>
         <company-name>UM Canada</company-name>
<company-address>150 Second Avenue Ohio</company-address>
     <website-address>www.UMC.ca</website-address>
               <email>UMC@UM.com
              <phone>999-888-4291</phone>
               oject projid="01">
       <title>Client Management Software</title>
                 <first-name>Tatum</first-name>
                 <last-name>Scurals
           <phone type="office">876-213-3242</phone>
                  <phone type="home"></phone>
              <email>TScurals@hotmail.com</email>
                <leader>Jonathon Wager</leader>
              <developers>Carl Burns</developers>
                 <tester>Josh Jumping</tester>
           <documenters>Candace Candels</documenters>
                  <clientid>Hill823</clientid>
            <client-name>Hillman John</client-name>
                   <street>Alpine Cres</street>
                        <city>Toronto</city>
                     <country>Canada</country>
```

```
<email>himans@gmail.com</email>
               <phone>565-897-1092</phone>
project-date type="start">01-01-2022
<company-name>Spotify</company-name>
<company-address>876 Avenue West</company-address>
<website-address>www.Spotify.com</website-address>
         <email>Spoitfy@gmail.com</email>
           <phone>905-564-2143</phone>
            project projid="02">
    <title>Updating shuffle algorithm</title>
             <first-name>David</first-name>
            <last-name>Coulthard</last-name>
        <phone type="office">798-213-1923</phone>
              <phone type="home"></phone>
             <email>DavidC@yahoo.ca</email>
             <leader>Lewis Hamilton
          <developers>Lando Norris</developers>
            <tester>Charles Leclarc</tester>
          <documenters>Super Man</documenters>
```

DTD

```
<!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 (#PCDATA)>
                 <!ELEMENT website-address (#PCDATA)>
                      <!ELEMENT email (#PCDATA)>
                      <!ELEMENT phone (#PCDATA)>
<!ELEMENT project ( title, managers, teams, clients?, project-date,
                      project-comments)>
                      <!ELEMENT title (#PCDATA)>
                    <!ELEMENT managers (manager+)>
         <!ELEMENT manager (first-name, middle-name?, last-name,
                        phone, email*)>
                        <!ELEMENT first-name (#PCDATA)>
                       <!ELEMENT middle-name (#PCDATA)>
                        <!ELEMENT last-name (#PCDATA)>
                          <!ELEMENT phone (#PCDATA)>
                          <!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 (clientid, client-name, address, email,
                            phone)>
                         <!ELEMENT clientid (#PCDATA)>
                       <!ELEMENT client-name (#PCDATA)>
           <!ELEMENT address (street? , city, country, postalcode?)>
                            <!ELEMENT street (#PCDATA)>
                             <!ELEMENT city (#PCDATA)>
                           <!ELEMENT country (#PCDATA)>
                          <!ELEMENT postalcode (#PCDATA)>
                           <!ELEMENT email(#PCDATA)>
                          <!ELEMENT phone (#PCDATA)>
```

```
<!ELEMENT project-date (#PCDATA)>
<!ELEMENT project-comments (#PCDATA)>
```