**Selected Website**We have chosen to select a website from a previous project which contains information on computer parts. In this site we wish to store and show the necessary information about our clients/users and products using the required resources to do so, which includes XML, XSD, XSLT, etc.

**XML File Proposal**

In order to properly store this information, we need an xml file to do so. This xml file will consist of clients, whoms information will be stored. The information needed will include the name of the client, their dni, whether they are a vip or not, their gender, and their phone number.

Along with storing information about the clients, it is also necessary to store information on products shown in the site. The information that is needed to be stored about the products includes the product id, name, and price.

Here is the xml with all of the above included:

<maek>

<clients>

<client dni="12345678A" image="http://">

<name>Carmen</name>

<woman />

<phone>123456789</phone>

</client>

<client dni="12345678B" image="http://">

<name>Pedro</name>

<vip />

<man />

<phone>123456789</phone>

</client>

</clients>

<products>

<product id="123A">

<name>CPU</name>

<price>84.99</price>

</product>

</products>

</maek>

**XSD File Proposal**

Now that we have the xml, we need to interpret the information stored in it. To do this, we have came up with this xsd file. This file takes the information from the clients and products and properly registers and declares the type of data it is. For example, the client is a node that has an attribute dni which is required and is a string. Another example is the phone number, which is an integer and is limited to 4 digits. This is applied to all data stored for our site.

Here is the xsd code that is derived from the xml shown previously:

<?xml version="1.0"?>

<xs:schema version="1.0"

xmlns:xs="http://www.w3.org/2001/XMLSchema"

elementFormDefault="qualified">

<xs:element name="maek">

<xs:complexType>

<xs:sequence>

<xs:element name="clients" maxOccurs="1">

<xs:complexType>

<xs:sequence>

<xs:element name="client">

<xs:complexType>

<xs:attribute name="dni" type="xs:string" use="required">

<xs:simpleType>

<xs:restriction base="xs:string">

<xs:pattern value="[0-9]{8}[A-Z]{1}"/>

</xs:restriction>

</xs:simpleType>

</xs:attribute>

<xs:attribute name="image" type="xs:string"/>

<xs:sequence>

<xs:element name="name" type="xs:string"/>

<xs:element name="vip" minOccurs="0"/>

<xs:choice>

<xs:element name="woman"/>

<xs:element name="man"/>

</xs:choice>

<xs:element name="phone">

<xs:simpleType>

<xs:restriction base="xs:string">

<xs:pattern value="[0-9]{9}"/>

</xs:restriction>

</xs:simpleType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:element name="products">

<xs:complexType>

<xs:sequence>

<xs:element name="product">

<xs:complexType>

<xs:attribute name="id" type="xs:string" use="required"/>

<xs:sequence>

<xs:element name="name" type="xs:string"/>

<xs:element name="price" type="xs:double"/>

</xs:sequence>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

</xs:schema>