

## **Enterprise Modeling – Case Study 01**

### **Case Study Name:**

SOAP Case Study – carries 20 Marks for the final assessment.

### **Primary Learning Outcome:**

The case study is given for students to put into practice the knowledge gained on Enterprise Architecture related XML technologies like SOAP, WSDL and XSL.

### **Description:**

It is necessary to build an XML based client using any technology of choice that is capable of reading the following sample SOAP message.



CustomerOrders.xml

The program should be able to read this file from a folder and extract only the following parts of the original SOAP message (XSL should be used for this transformation process)

Group the original SOAP Message into individual ORDERS

The output ORDER SOAP message should have the following

COMPANY\_ID

ORDER\_ID

DISCOUNT

And all child elements in its ITEM element

Send this newly created SOAP message to a web service which calculates the TOTAL\_PRICE for the order considering the DISCOUNT and the quantity of each product ordered

The output from the web service should be a another SOAP message containing the following

COMPANY\_ID should be changed to CUSTOMER\_ID

ORDER\_ID

TOTAL\_PRICE

The out put of the web service should be saved as an XML file on the disk.