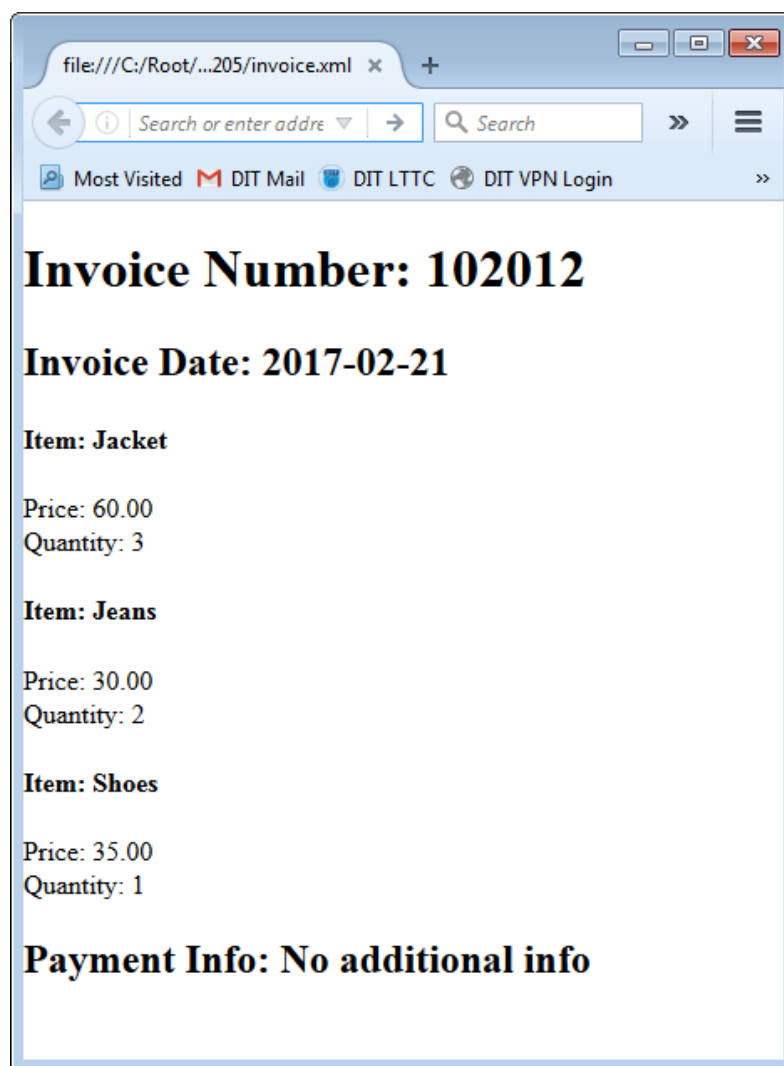


## Enterprise Systems & Architecture

### Lab 6 (Week 4): XSL Exercises – More XSL

#### Exercise 1

- Using the *invoice.xml* file below, write an XSL stylesheet called *invoice.xsl* that produces the following html web page, the xml file is loaded by IE or Firefox. Your stylesheet ***should only contain the root template (i.e. use xsl:for-each to loop the items)***.



## invoice.xml

```
<?xml version="1.0"?>

<invoice>

    <invoice_number>102012</invoice_number>
    <invoice_date>2017-02-21</invoice_date>
    <invoice_total>275.00</invoice_total>
    <issued_by>Mark</issued_by>
    <bill_to>
        <name>John</name>
        <address>
            <number>1</number>
            <street>Main St</street>
            <city>Dundalk</city>
        </address>
    </bill_to>
    <item>
        <item_name>Jacket</item_name>
        <price>60.00</price>
        <quantity>3</quantity>
    </item>
    <item>
        <item_name>Jeans</item_name>
        <price>30.00</price>
        <quantity>2</quantity>
    </item>
    <item>
        <item_name>Shoes</item_name>
        <price>35.00</price>
        <quantity>1</quantity>
    </item>
    <payment_information>No additional info</payment_information>
</invoice>
```

### Exercise 2

- Modify your stylesheet so that it does not use an `<xsl:for-each>` tag to output the details for each item – instead use the `<xsl:apply-templates>` tag that matches to the `<item>` node.

### Exercise 3

- Modify your stylesheet so that it sorts the items in ascending order of quantity.

### Exercise 4

- Modify your stylesheet so that only those items where the quantity is greater than 1 are listed. Use an `<xsl:if>` tag within your item processing template.
- Change what you have just done to use a predicate on the `<xsl:apply-templates>` instead of the `<xsl:for-each>`

### Exercise 5

- Modify your stylesheet so that it uses the `<xsl:element>` and `<xsl:attribute>` tags to display the following hyperlink at the bottom of the page:

<http://www.dit.ie>

### Exercise 6

- Use any additional html and xsl that you think would enhance how the xml is presented in the browser (e.g. add a html table). Feel free to add data and/or elements to the XML file.