

TCP3151

Integrative Programming and Technologies

**Assignment Report**

Lab Section: IP1A

BY

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Table of Contents

[Part 1 – Data related to Lost Item Reporting System 1](#_Toc15126284)

[1.1 Brief Introduction of the Data used 1](#_Toc15126285)

[1.2 XML Documents 3](#_Toc15126286)

[1.3 Logical View 14](#_Toc15126287)

[1.4 DTD Documents 15](#_Toc15126288)

[1.5 XSLT Codes 17](#_Toc15126289)

[1.6 HTML Outputs 22](#_Toc15126290)

[Part 2 – JNI Program 23](#_Toc15126291)

[2.1 JNI Program Codes 23](#_Toc15126293)

[2.2 Print Screen of Outputs 24](#_Toc15126294)

# Part 1 – Data related to Lost Item Reporting System

## Brief Introduction of the Data used

The system uses two separates XML files for lost items and found items respectively. For the first XML file – LostItemReport.xml, it shows the items that are reported lost to the Lost and Found Station in Multimedia University Melaka. This XML file using an external DTD file named – LostItemReport.dtd to define its structure and the legal elements and attributes. Besides that, an XSL file – ListOfLostItem.xsl is also linked together to transform the XML elements into XHTML to be displayed to end users.

The root element for LostItemReport.xml is *lostReport*, it consists of zero or more *item* element, each of the *item* has an *id* attribute as primary key of the *item*. In the *item,* there are 9 child elements, each of it with its own purpose. The *status* element used to mark the status of the item, its attribute – *choice* may be supplied with“Open” to indicate an item that have lost, “Found” to indicate the item have been found and awaiting to be returned, and lastly “Closed” to indicate the item have been found and returned. The *description* element represents the short description of the item lost. For the *report:datetime* element, it store the date and time when the item is reported lost to the Lost and Found Station, *lost:datetime* imply the date and time range, when the item is suspected lost at, *claim:datetime* reveal the date and time the owner come and claim the item back, shall it is found. The *locations* element may include one or multiple *location* element, it shows the locations where the item is suspected lost at. The *detail* element may include a detail description of the item lost. The *reportBy* shows the owner of the item, the Lost and Found Station may contact this person shall the item is found, by using the email or phone number provided here. The *returnBy* shows the person who found the lost item, and some other information about the person.

For another XML file – FoundItemReport.xml, it shows the found items that are reported to the Lost and Found Station. This XML file linked to an XSL file – ItemTobeClaimed.xsl to display it in XHTML format, and it use an internal DTD to define the elements structure. It had *foundReport* as the root element, and it consist zero or multiple *item* element. The *id* attribute of the *item* element is used to indicate the primary key of the item. The *choice* attribute of *status* element is used to indicate the status of the item, where the “Open” imply the item is awaiting to be claimed, and “Closed” imply that the item have been claimed. The *description* element shows a short description of the item found. For the *report:datetime* element it store the date and time the item is reported to the Lost and Found Station, *found:datetime* shows the date and time the item is being found by the reporting person, *claim:datetime* element shows when the item is being claimed by it’s owner. The *location* element marks where the item is found at. If there are other detail description of the item found, it may be showed in *detail* element. For the *reportBy* element, it shows the person who found the item and report it to the Lost and Found Station, it also includes some contact information of the person. For *claimBy* element, it shows the person who claimed the item, and some of his/her information.

## XML Documents

**LostItemReport.xml**

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| <?xml version="1.0" encoding="UTF-8" standalone="no" ?>  <!-- This report is to record the items that are reported LOST to the Lost and Found Station -->  <!-- External DTD -->  <!DOCTYPE lostReport SYSTEM "LostItemReport.dtd" >  <!-- Link to XSL -->  <?xml-stylesheet type="text/xsl" href="ListOfLostItem.xsl" ?>  <lostReport>  <item id="L1001"> <!-- indicate an item that have been lost; id incidate the primary key -->  <status choice="Open" /> <!-- Open: Item is awaiting to be found and returned; Found: Item have been found and awaiting to be returned; Closed: Item have been found and returned -->  <description>Student ID</description> <!-- short description of the item lost -->  <!-- when the item is reported to the lost and found station -->  <report:datetime xmlns:report="http://www.w3.org/xml/report/">  <report:date year="2019" month="07" date="02" />  <report:time hour="17" minute="26" />  </report:datetime>  <!-- when the item is suspected lost -->  <lost:datetime xmlns:lost="http://www.w3.org/xml/lost/">  <lost:dateFrom year="2019" month="07" date="02" />  <lost:dateTo year="2019" month="07" date="02" />  <lost:timeFrom hour="14" minute="00" />  <lost:timeTo hour="16" minute="00" />  </lost:datetime>  <!-- when the item is being claimed by its owner -->  <claim:datetime xmlns:claim="http://www.w3.org/xml/claim/">  <claim:date year="" month="" date="" />  <claim:time hour="" minute="" />  </claim:datetime>  <!-- where the item is suspected lost -->  <locations>  <location>MSMX0001</location>  <location>CLC Concourse</location>  </locations>  <!-- detail description of the item lost -->  <detail> <![CDATA[  Student Id: 1131119882  ]]></detail>  <!-- item lost is reported by this person -->  <reportBy>  <name>  <firstName>Kah Siang</firstName>  <lastName>Koh</lastName>  </name>  <email>kahsiang95@hotmail.com</email>  <phone>0176815218</phone>  <id>1131119882</id>  </reportBy>  <!-- item is being found by this person -->  <returnBy>  <name>  <firstName></firstName>  <lastName></lastName>  </name>  <email></email>  <phone></phone>  <id></id>  </returnBy>  </item>  <item id="L1002">  <status choice="Closed" />  <description>Wallet</description>  <report:datetime xmlns:report="http://www.w3.org/xml/report/">  <report:date year="2019" month="07" date="03" />  <report:time hour="11" minute="59" />  </report:datetime>    <lost:datetime xmlns:lost="http://www.w3.org/xml/lost/">  <lost:dateFrom year="2019" month="07" date="03" />  <lost:dateTo year="2019" month="07" date="03" />  <lost:timeFrom hour="08" minute="00" />  <lost:timeTo hour="11" minute="30" />  </lost:datetime>  <claim:datetime xmlns:claim="http://www.w3.org/xml/claim/">  <claim:date year="2019" month="07" date="04" />  <claim:time hour="08" minute="04" />  </claim:datetime>    <locations>  <location>MSMX0001</location>  </locations>  <detail> <![CDATA[  Black colour, around RM300 inside, include student id - 1151104900, ic - 980101-01-0001, driving license, and aeon member card  ]]></detail>  <reportBy>  <name>  <firstName>Kean Wah</firstName>  <lastName>Cheng</lastName>  </name>  <email>1151104900@student.mmu.edu.my</email>  <phone>0129350714</phone>  <id>1151104900</id>  </reportBy>  <returnBy>  <name>  <firstName>Daphne</firstName>  <lastName>Bunga Dwiputriane</lastName>  </name>  <email>1151105086@student.mmu.edu.my</email>  <phone>017-6356898</phone>  <id>1151105086</id>  </returnBy>  </item>  <item id="L1003"> <!-- indicate an item that have been lost; id incidate the primary key -->  <status choice="Open" /> <!-- Open: Item is awaiting to be found and returned; Found: Item have been found and awaiting to be returned; Closed: Item have been found and returned -->  <description>Necklace</description> <!-- short description of the item lost -->  <!-- when the item is reported to the lost and found station -->  <report:datetime xmlns:report="http://www.w3.org/xml/report/">  <report:date year="2019" month="07" date="09" />  <report:time hour="11" minute="30" />  </report:datetime>  <!-- when the item is suspected lost -->  <lost:datetime xmlns:lost="http://www.w3.org/xml/lost/">  <lost:dateFrom year="2019" month="07" date="09" />  <lost:dateTo year="2019" month="07" date="09" />  <lost:timeFrom hour="09" minute="00" />  <lost:timeTo hour="11" minute="00" />  </lost:datetime>  <!-- when the item is being claimed by its owner -->  <claim:datetime xmlns:claim="http://www.w3.org/xml/claim/">  <claim:date year="" month="" date="" />  <claim:time hour="" minute="" />  </claim:datetime>  <!-- where the item is suspected lost -->  <locations>  <location>MAMR4020</location>  </locations>  <!-- detail description of the item lost -->  <detail> <![CDATA[  Necklace Colour - Silver, Necklace Symbol - Cross, Necklace Length - Short  ]]></detail>  <!-- item lost is reported by this person -->  <reportBy>  <name>  <firstName>Mary Louise</firstName>  <lastName>Wright</lastName>  </name>  <email>maryloui@gmail.com</email>  <phone>0103456789</phone>  <id>118120212</id>  </reportBy>  <!-- item is being found by this person -->  <returnBy>  <name>  <firstName></firstName>  <lastName></lastName>  </name>  <email></email>  <phone></phone>  <id></id>  </returnBy>  </item>    <item id="L1004">  <status choice="Found" />  <description>Laptop Bag</description>  <report:datetime xmlns:report="http://www.w3.org/xml/report/">  <report:date year="2019" month="07" date="16" />  <report:time hour="12" minute="50" />  </report:datetime>    <lost:datetime xmlns:lost="http://www.w3.org/xml/lost/">  <lost:dateFrom year="2019" month="07" date="16" />  <lost:dateTo year="2019" month="07" date="16" />  <lost:timeFrom hour="11" minute="00" />  <lost:timeTo hour="12" minute="30" />  </lost:datetime>  <claim:datetime xmlns:claim="http://www.w3.org/xml/claim/">  <claim:date year="" month="" date="" />  <claim:time hour="" minute="" />  </claim:datetime>  <locations>  <location>MSMX2008</location>  </locations>  <detail> <![CDATA[  Black colour, messenger bag, Laptop brand - Dell, Laptop Username - Amabella Klein, Laptop Colour - Grey  ]]></detail>  <reportBy>  <name>  <firstName>Amabella</firstName>  <lastName>Klein</lastName>  </name>  <email>amabellaklein21@gmail.com</email>  <phone>0144705658</phone>  <id>1151105020</id>  </reportBy>  <returnBy>  <name>  <firstName>Chang He</firstName>  <lastName>Wong</lastName>  </name>  <email>1151105293@student.mmu.edu.my</email>  <phone>0129161580</phone>  <id>1151105293</id>  </returnBy>  </item>    <item id="L1005"> <!-- indicate an item that have been lost; id incidate the primary key -->  <status choice="Open" /> <!-- Open: Item is awaiting to be found and returned; Found: Item have been found and awaiting to be returned; Closed: Item have been found and returned -->  <description>Water Bottle</description> <!-- short description of the item lost -->  <!-- when the item is reported to the lost and found station -->  <report:datetime xmlns:report="http://www.w3.org/xml/report/">  <report:date year="2019" month="07" date="12" />  <report:time hour="14" minute="30" />  </report:datetime>  <!-- when the item is suspected lost -->  <lost:datetime xmlns:lost="http://www.w3.org/xml/lost/">  <lost:dateFrom year="2019" month="07" date="12" />  <lost:dateTo year="2019" month="07" date="12" />  <lost:timeFrom hour="11" minute="00" />  <lost:timeTo hour="13" minute="00" />  </lost:datetime>  <!-- when the item is being claimed by its owner -->  <claim:datetime xmlns:claim="http://www.w3.org/xml/claim/">  <claim:date year="" month="" date="" />  <claim:time hour="" minute="" />  </claim:datetime>  <!-- where the item is suspected lost -->  <locations>  <location>MNBR2007</location>  </locations>  <!-- detail description of the item lost -->  <detail> <![CDATA[  Brand - Tupperware, Colour -Blue, Volume of water - Half empty  ]]></detail>  <!-- item lost is reported by this person -->  <reportBy>  <name>  <firstName>Joseph</firstName>  <lastName>Schooling</lastName>  </name>  <email>joeschooling@yahoo.com</email>  <phone>0165486569</phone>  <id>115130444</id>  </reportBy>  <!-- item is being found by this person -->  <returnBy>  <name>  <firstName></firstName>  <lastName></lastName>  </name>  <email></email>  <phone></phone>  <id></id>  </returnBy>  </item>    <item id="L1006">  <status choice="Closed" />  <description>Wallet</description>  <report:datetime xmlns:report="http://www.w3.org/xml/report/">  <report:date year="2019" month="07" date="03" />  <report:time hour="12" minute="00" />  </report:datetime>    <lost:datetime xmlns:lost="http://www.w3.org/xml/lost/">  <lost:dateFrom year="2019" month="07" date="03" />  <lost:dateTo year="2019" month="07" date="03" />  <lost:timeFrom hour="10" minute="00" />  <lost:timeTo hour="11" minute="50" />  </lost:datetime>  <claim:datetime xmlns:claim="http://www.w3.org/xml/claim/">  <claim:date year="2019" month="07" date="10" />  <claim:time hour="11" minute="00" />  </claim:datetime>  <locations>  <location>ACR1006</location>  </locations>  <detail> <![CDATA[  Colour - Grey, Cash - RM10, Driving License - 100100234, CIMB ATM Card, Hong Leong Credit Card  ]]></detail>  <reportBy>  <name>  <firstName>Kosuke</firstName>  <lastName>Hagino</lastName>  </name>  <email>koshaginojp@yahoo.com</email>  <phone>0155587202</phone>  <id>1121202121</id>  </reportBy>  <returnBy>  <name>  <firstName>Frenkie</firstName>  <lastName>de Jong</lastName>  </name>  <email>fdj21@gmail.com</email>  <phone>016-6567898</phone>  <id>1181104554</id>  </returnBy>  </item>  <item id="L1007"> <!-- indicate an item that have been lost; id incidate the primary key -->  <status choice="Open" /> <!-- Open: Item is awaiting to be found and returned; Found: Item have been found and awaiting to be returned; Closed: Item have been found and returned -->  <description>House Keys</description> <!-- short description of the item lost -->  <!-- when the item is reported to the lost and found station -->  <report:datetime xmlns:report="http://www.w3.org/xml/report/">  <report:date year="2019" month="07" date="15" />  <report:time hour="16" minute="00" />  </report:datetime>  <!-- when the item is suspected lost -->  <lost:datetime xmlns:lost="http://www.w3.org/xml/lost/">  <lost:dateFrom year="2019" month="07" date="15" />  <lost:dateTo year="2019" month="07" date="15" />  <lost:timeFrom hour="08" minute="30" />  <lost:timeTo hour="12" minute="00" />  </lost:datetime>  <!-- when the item is being claimed by its owner -->  <claim:datetime xmlns:claim="http://www.w3.org/xml/claim/">  <claim:date year="" month="" date="" />  <claim:time hour="" minute="" />  </claim:datetime>  <!-- where the item is suspected lost -->  <locations>  <location>ACR3002</location>  </locations>  <!-- detail description of the item lost -->  <detail> <![CDATA[  Number of Keys - 3, Keychain words - Enjoy Spain  ]]></detail>  <!-- item lost is reported by this person -->  <reportBy>  <name>  <firstName>Aaron</firstName>  <lastName>Wan-Bissaka</lastName>  </name>  <email>spiderwan97@gmail.com</email>  <phone>0124202029</phone>  <id>1141100420</id>  </reportBy>  <!-- item is being found by this person -->  <returnBy>  <name>  <firstName></firstName>  <lastName></lastName>  </name>  <email></email>  <phone></phone>  <id></id>  </returnBy>  </item>    <item id="L1008">  <status choice="Closed" />  <description>Backpack</description>  <report:datetime xmlns:report="http://www.w3.org/xml/report/">  <report:date year="2019" month="07" date="24" />  <report:time hour="14" minute="10" />  </report:datetime>    <lost:datetime xmlns:lost="http://www.w3.org/xml/lost/">  <lost:dateFrom year="2019" month="07" date="23" />  <lost:dateTo year="2019" month="07" date="24" />  <lost:timeFrom hour="18" minute="00" />  <lost:timeTo hour="14" minute="00" />  </lost:datetime>  <claim:datetime xmlns:claim="http://www.w3.org/xml/claim/">  <claim:date year="2019" month="07" date="26" />  <claim:time hour="15" minute="00" />  </claim:datetime>  <locations>  <location>Exam Hall</location>  </locations>  <detail> <![CDATA[  Colour - Black, Network Security Lecture Notes, Final Year Project drafts, black pencil case, Sony brand powerbank  ]]></detail>  <reportBy>  <name>  <firstName>Mohammad</firstName>  <lastName>Salah</lastName>  </name>  <email>mosalah29@hotmail.com</email>  <phone>0176822910</phone>  <id>1181100106</id>  </reportBy>  <returnBy>  <name>  <firstName>Penny</firstName>  <lastName>Oleksiak</lastName>  </name>  <email>typicalpenny@gmail.com</email>  <phone>016-80902454</phone>  <id>1141205055</id>  </returnBy>  </item>    </lostReport> |

**FoundItemReport.xml**

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## Logical View

**Logical View for LostItemReport.xml**

**Logical View for FoundITemReport.xml**

## DTD Documents

**LostItemReport.dtd for LostItemReport.xml**

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| --- |
| <!ELEMENT lostReport (item\*) >  <!ELEMENT item (status, description, report:datetime, lost:datetime, claim:datetime, locations, detail, reportBy, returnBy) >  <!ELEMENT status EMPTY >  <!ELEMENT description (#PCDATA) >  <!ELEMENT report:datetime (report:date, report:time) >  <!ELEMENT report:date EMPTY >  <!ELEMENT report:time EMPTY >  <!ELEMENT lost:datetime (lost:dateFrom, lost:dateTo, lost:timeFrom, lost:timeTo) >  <!ELEMENT lost:dateFrom EMPTY >  <!ELEMENT lost:dateTo EMPTY >  <!ELEMENT lost:timeFrom EMPTY >  <!ELEMENT lost:timeTo EMPTY >  <!ELEMENT claim:datetime (claim:date, claim:time) >  <!ELEMENT claim:date EMPTY >  <!ELEMENT claim:time EMPTY >  <!ELEMENT locations (location+)>  <!ELEMENT location (#PCDATA) >  <!ELEMENT detail (#PCDATA) >  <!ELEMENT reportBy (name, email, phone, id) >  <!ELEMENT returnBy (name, email, phone, id) >  <!ELEMENT name (firstName, lastName) >  <!ELEMENT firstName (#PCDATA) >  <!ELEMENT lastName (#PCDATA) >  <!ELEMENT email (#PCDATA) >  <!ELEMENT phone (#PCDATA) >  <!ELEMENT id (#PCDATA) >  <!ATTLIST item id ID #REQUIRED >  <!ATTLIST status choice (Open | Found | Closed) #REQUIRED >  <!ATTLIST report:datetime xmlns:report CDATA #FIXED "http://www.w3.org/xml/report/">  <!ATTLIST report:date  year CDATA #REQUIRED  month CDATA #REQUIRED  date CDATA #REQUIRED  >  <!ATTLIST report:time  hour CDATA #REQUIRED  minute CDATA #REQUIRED  >  <!ATTLIST lost:datetime xmlns:lost CDATA #FIXED "http://www.w3.org/xml/lost/">  <!ATTLIST lost:dateFrom  year CDATA #REQUIRED  month CDATA #REQUIRED  date CDATA #REQUIRED  >  <!ATTLIST lost:dateTo  year CDATA #REQUIRED  month CDATA #REQUIRED  date CDATA #REQUIRED  >  <!ATTLIST lost:timeFrom  hour CDATA #REQUIRED  minute CDATA #REQUIRED  >  <!ATTLIST lost:timeTo  hour CDATA #REQUIRED  minute CDATA #REQUIRED  >  <!ATTLIST claim:datetime xmlns:claim CDATA #FIXED "http://www.w3.org/xml/claim/">  <!ATTLIST claim:date  year CDATA #REQUIRED  month CDATA #REQUIRED  date CDATA #REQUIRED  >  <!ATTLIST claim:time  hour CDATA #REQUIRED  minute CDATA #REQUIRED  > |

**DTD for FoundItemReport.xml**

It is an internal DTD included together with FoundItemReport.xml.

## XSLT Codes

**ListOfLostItem.xsl for LostItemReport.xml**

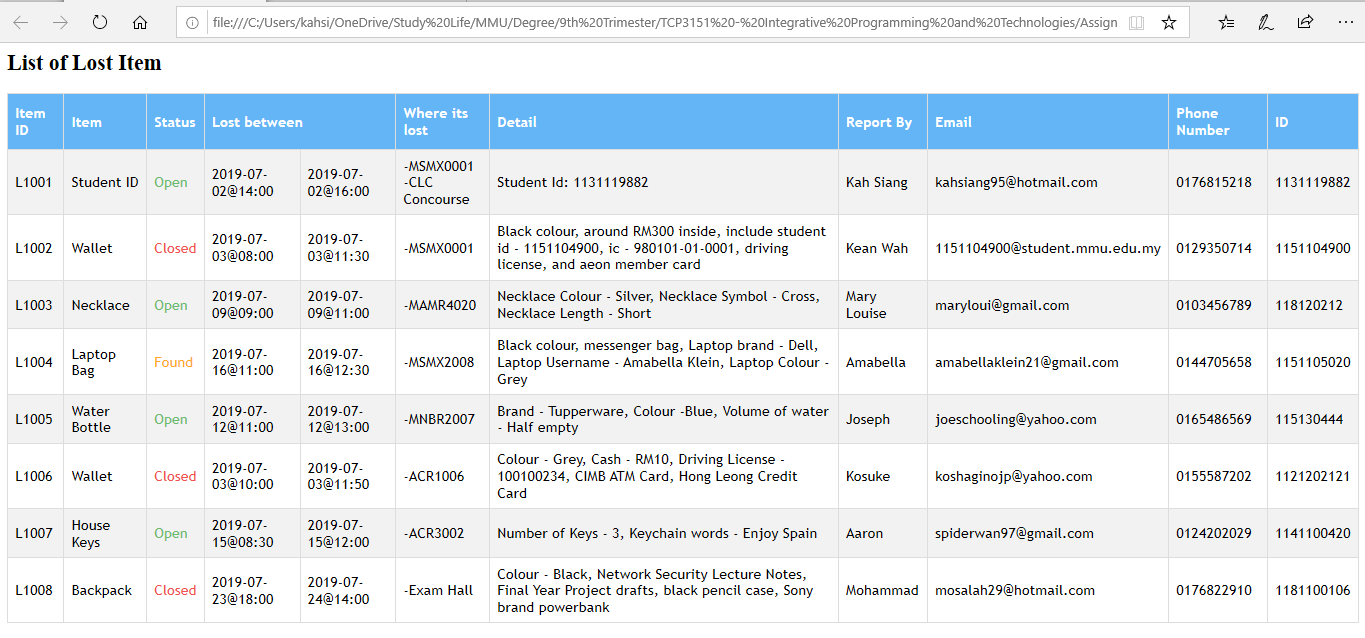
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| --- |
| <?xml version="1.0" encoding="UTF-8" ?>  <xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform"  xmlns:report="http://www.w3.org/xml/report/"  xmlns:lost="http://www.w3.org/xml/lost/"  xmlns:claim="http://www.w3.org/xml/claim/">  <xsl:template match="/">    <html>  <head>  <title>List of Lost Item</title>  <style>  #lostItem {  font-family: "Trebuchet MS", Arial, Helvetica, sans-serif;  border-collapse: collapse;  width: 100%;  }  #lostItem td, #lostItem th {  border: 1px solid #ddd;  padding: 8px;  }  #lostItem tr:nth-child(even){background-color: #f2f2f2;}  #lostItem tr:hover {background-color: #ddd;}  #lostItem th {  padding-top: 12px;  padding-bottom: 12px;  text-align: left;  background-color: #64b5f6;  color: white;  }  .open {  color: #66bb6a;  }  .closed {  color: #ef5350;  }  .found {  color: #ffa726;  }  </style>  </head>      <body>        <h2>List of Lost Item</h2>  <table id="lostItem">  <tr>  <th>Item ID</th>  <th>Item</th>  <th>Status</th>  <th colspan="2">Lost between</th>  <th>Where its lost</th>  <th>Detail</th>  <th>Report By</th>  <th>Email</th>  <th>Phone Number</th>  <th>ID</th>  </tr>  <xsl:for-each select="lostReport/item">  <!--<xsl:if test="status/@choice='Open'">-->  <tr>  <td><xsl:value-of select="@id" /></td>  <td><xsl:value-of select="description" /></td>  <xsl:choose>  <xsl:when test="status/@choice='Open'">  <td class="open"><xsl:value-of select="status/@choice" /></td>  </xsl:when>  <xsl:when test="status/@choice='Found'">  <td class="found"><xsl:value-of select="status/@choice" /></td>  </xsl:when>  <xsl:otherwise>  <td class="closed"><xsl:value-of select="status/@choice" /></td>  </xsl:otherwise>  </xsl:choose>  <td>  <xsl:value-of select="lost:datetime/lost:dateFrom/@year" />-<xsl:value-of select="lost:datetime/lost:dateFrom/@month" />-<xsl:value-of select="lost:datetime/lost:dateFrom/@date" />@<xsl:value-of select="lost:datetime/lost:timeFrom/@hour" />:<xsl:value-of select="lost:datetime/lost:timeFrom/@minute" />  </td>  <td>  <xsl:value-of select="lost:datetime/lost:dateTo/@year" />-<xsl:value-of select="lost:datetime/lost:dateTo/@month" />-<xsl:value-of select="lost:datetime/lost:dateTo/@date" />@<xsl:value-of select="lost:datetime/lost:timeTo/@hour" />:<xsl:value-of select="lost:datetime/lost:timeTo/@minute" />  </td>  <td>  <xsl:for-each select="locations/location">  -<xsl:value-of select="." /><br/>  </xsl:for-each>  </td>  <td><xsl:value-of select="detail" /></td>  <td><xsl:value-of select="reportBy/name/firstName" /></td>  <td><xsl:value-of select="reportBy/email" /></td>  <td><xsl:value-of select="reportBy/phone" /></td>  <td><xsl:value-of select="reportBy/id" /></td>  </tr>  <!--</xsl:if>-->  </xsl:for-each>  </table>      </body>    </html>  </xsl:template>  </xsl:stylesheet> |

**ItemTobeClaimed.xsl for FoundItemReport.xml**

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| <?xml version="1.0" encoding="UTF-8" ?>  <xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform"  xmlns:report="http://www.w3.org/xml/report/"  xmlns:found="http://www.w3.org/xml/found/"  xmlns:claim="http://www.w3.org/xml/claim/">  <xsl:template match="/">  <html>  <head>  <title>Items to be Claimed</title>  <style>  .foundItem {  font-family: "Trebuchet MS", Arial, Helvetica, sans-serif;  border-collapse: collapse;  width: 100%;  }  .foundItem td, .foundItem th {  border: 1px solid #ddd;  padding: 8px;  }  .foundItem tr:nth-child(even){background-color: #f2f2f2;}  .foundItem tr:hover {background-color: #ddd;}  .foundItem th {  padding-top: 12px;  padding-bottom: 12px;  text-align: left;  background-color: #c63f17;  color: white;  }  </style>  </head>    <body>  <h2>Items to be Claimed</h2>  <xsl:apply-templates/>  </body>  </html>  </xsl:template>  <xsl:template match="item">  <xsl:if test="status/@choice='Open'">  <table class="foundItem">  <tr>  <th colspan="2"><xsl:apply-templates select="@id" /> - <xsl:apply-templates select="description" /></th>  </tr>  <tr><xsl:apply-templates select="found:datetime" /></tr>  <tr><xsl:apply-templates select="location" /></tr>  <tr><xsl:apply-templates select="detail" /></tr>  <tr style="height:20px;"></tr>  </table>  </xsl:if>  </xsl:template>  <xsl:template match="@id">  <xsl:value-of select="."/>  </xsl:template>  <xsl:template match="description">  <xsl:value-of select="."/>  </xsl:template>  <xsl:template match="found:datetime">  <td style="width:130px">When its found: </td>  <td><xsl:apply-templates select="found:date" /> @ <xsl:apply-templates select="found:time" /></td>  </xsl:template>  <xsl:template match="found:date">  <xsl:value-of select="@year" />-<xsl:value-of select="@month" />-<xsl:value-of select="@date" />  </xsl:template>  <xsl:template match="found:time">  <xsl:value-of select="@hour" />:<xsl:value-of select="@minute" />  </xsl:template>  <xsl:template match="location">  <td>Location found: </td>  <td><xsl:value-of select="."/></td>  </xsl:template>  <xsl:template match="detail">  <td>Detail: </td>  <td><xsl:value-of select="." /></td>  </xsl:template>  </xsl:stylesheet> |

## HTML Outputs

**ListOfLostItem.xsl for LostItemReport.xml**



**ItemTobeClaimed.xsl for FoundItemReport.xml**

# Part 2 – JNI Program



## JNI Program Codes

## Print Screen of Outputs