

# Import XML from BlueVendo

## - Manual for Agents

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## What is BlueVendo?

BlueVendo is a BackOffice system for small, medium and large tour operators. It allows to model the offer and its sale on B2B channels. In the BlueVendo system the tour operator can define a list of countries, regions, airports and can describe its offer through photos and descriptions of regions and hotels. He can also introduce contracts for hotels, airplanes, transfers and other services. BlueVendo system calculates the final price offer based on parameters set by the tour operator (such as margins and discounts).

Operators current offer is available in the BlueVendo system for registered users (agents account requires activation by the tour operator). The entire available offer is also exported in XML files that contain all the components of the offer, such as a list of hotels with descriptions, names of the offers, a list of possible configurations of accommodation of the offer, a list of mandatory and optional services, base and final prices settled on the person, etc.

### 1. Structure of exported objects

The offer is exported on 3 levels:

- Hotels – hotel list with descriptions and picture addresses
- Offer – hotel offer list (characteristic features of the trip) with the information about the type of accommodation
- Trips – list of trips with prices

For one hotel there can be assigned a large amount of offers.  
Each offer can be assigned only to one hotel.

For one offer there can be assigned a large amount of trips (with different lengths of duration)  
Each trip can be assigned only to one offer.

Trips which are assigned into one offer have always common parameter which is exported on hotel and offer levels eg a list of possible accommodation configurations.

## 1.1. Hotel list

File hotel.xml file contains a list of hotels. Here is an example of a single hotel:

```
<hotel id="2" tomid="12192">
  <params>
    <name>Creta Maris</name>
    <city id="3">Hersonissos</city>
    <region id="4">Kreta</region>
    <country id="4">Grecja</country>
    <seasontypeid>4</seasontypeid>
    <standard>*****</standard>
    <seasontypename>Lato</seasontypename>
    <categoryname>Pobyt w hotelu</categoryname>
    <types></types>
  </params>

  <descriptions>
    <description>
      <label>Nagłówek</label>
      <body>Treść opisu</body>
    </description>
  </descriptions>

  <images>
    <image>sciezka_do_pliku</image>
    <image>sciezka_do_pliku</image>
  </images>

  <imagesresize>
    <image size="100x0">sciezka_do_pliku</image>
    <image size="60x40">sciezka_do_pliku</image>
    <image size="219x164">sciezka_do_pliku</image>
    (...)
  </imagesresize>

  <clasifications>
    <group id="6">
      <name>Wypoczynek</name>
      <clasificationlist>
        <clasification id ="7">
          <name>Spa</name>
          <image>sciezka_do_pliku</image>
        </clasification>
        <clasification id ="8">
          <name>Jacuzzi w pokoju</name>
          <image>sciezka_do_pliku </image>
        </clasification>
      </clasificationlist>
    </group>
    <group id="7">
      <name>Wypoczynek aktywny</name>
      <clasificationlist>
        <clasification id ="9">
          <name>Nurkowanie</name>
          <image> sciezka_do_pliku</image>
        </clasification>
      </clasificationlist>
    </group>
  </clasifications>
</hotel>
```

```

    <clasificacion id ="10">
      <name>Golf</name>
      <image>sciezka_do_pliku</image>
    </clasificacion>
  </clasificacionlist>
</group>
</clasificacions>

<geolocation>
  <latitude></latitude>
  <longitude></longitude>
</geolocation>
</hotel>

```

Each hotel has its own identification number in the system and all offers that apply to this hotel will have hotelId parameter.

The list of most important parameters:

- id - hotels identification number
- tomid - objects identificati number in 24TOM system
- params section contains the list of parameters that characterize the hotel in the system:

\*city - identification number and cities name

\*region - identification number and regions name

\*country - identification number and countries name

\*seasontypename - name of season type

\*categoryname - name of hotel type

\*standerd - hotel standard

\*types - hotel type

- descriptios section contains the list of hotel descriptions:

\*label - descriptions headline

\*body - description text

- imagesresize section - contains links to scaled photo counterparts from images section. The size of the photo is contained in the size parameter.
- clasificacions section - designation of hotel classification. The "group" node defines classification group. Each of them can contains several number of elements ("clasificacion" nodes), with the given name ("name") and icon (image").
- Geolacation section - geographic coordinates (by Google)

\*latitude - geographical width

\*longitude - geographical length

## 1.2. Offer list

File offer.xml file contains offer list. The offer links the trips with the same characteristic features - hotel, hotel room, type of transport, board. The offer can be basic type (type name="stay"). Below we can see an egzample of a single offer:

```

<offer id="8510">
  <hotel id="1808">Hotel Laguna Albatros</hotel>
  <hotelminage>0</hotelminage>
  <minagenum>0</minagenum>
  <maxinfnum>0</maxinfnum>
  <infasperson>FALSE</infasperson>
  <confs>
    <c>0_0</c>
    <c>0_0_110</c>
    <c>0_0_159</c>
    <c>0_0_127</c>
    <c>0_0_2</c>
    <c>0_0_2_2</c>
    <c>0_0_110_2</c>
    <c>0_0_110_2_2</c>
    <c>0_0_159_2</c>
    <c>0_0_159_2_2</c>
    <c>0_0_127_2</c>
    <c>0_0_127_2_2</c>
  </confs>
  <room id="4747">
    <roomname>1/2+1 B(2SB)</roomname>
    <roomtype>Room</roomtype>
    <roompricetype>PERSON</roompricetype>
    <base_person_no>2</base_person_no>
    <additional_bed_no>1</additional_bed_no>
    <min_additional_bed_no>0</min_additional_bed_no>
    <max_ad_no>0</max_ad_no>
  </room>
  <maintenance>AI</maintenance>
  <maintenancename>All Inclusive</maintenancename>
  <transporttype id="3">Vlastiti prijevoz</transporttype>
  <optionalcomponents>
    <component id="rg">...</component> <!-- resign insurance -->
  </optionalcomponents>
  <obligatorycomponents>
    <component id="10">...</component>
    <component id="9">...</component>
  </obligatorycomponents>
</offer>

```

Each offer contains its identification number in the system and all terms that are combined to that offer will have offerid parameter.

List of boxes:

- hotel – identification number and hotel name
- hotelminage – guests minimum age (0 – no limits)
- maxinfnum – maximal possible amount of children aged 0-2 (0 – no limits)
- infasperson – if TRUE, person with the INF code are treated as adults and children when determining the possibility of reserving a given configuration

It means, that the value in the node <additional\_bed\_no> puts a limit on the infants.

- roomname – room name

- roomtype – room type
- maintenance – board code
- maintenancename – board name
  
- Section room contains information about the room:
  - atrybut id – rooms identification number in the system
  - roomname – room name
  - roomtype – room type
  - roompricetype – price type (PERSON – the mainfold price per person, ROOM mainfold price per room)
  - base\_person\_bed\_no – the base amount of person in the room – it means the necessary number of people to reserve the room (exception is an adult in a double room – SGL), which pay the base price.
  - additional\_bed\_no – maximum amount of extra beds in the room (together AD, CHD and optional INF – depending on the node <infasperson>)
  - min\_additional\_bed\_no – minimum number of extra beds
  - max\_additional\_bed\_no – maximum amount of occurrences of extra beds AD type. Box helps to determine the maximum AD and CHD amount of extra beds in the offer.
  
- maintenance – board code
- maintenance name – board type name
- transporttype – identification number and the name of transport // possible values: {1,2,3}
  
- Section optionalcomponents may include elements which can be reserved in particular offer in every term: the price of the optional components need to be added to the price of the term:
  - id – identification number
  - description – descriptions
  - price – in base currency
  - bcprice – in seles currency
  - age\_from – age limit from (0 for any value)
  - age\_to – age limit to (0 for any value)
  - pricetype – STAY/DAY – type of price settlement – for STAY/DAY
  - pricetype – ROOM/PERSON – type of price settlement – for ROOM/PERSON
  - addtoallpersons – information, if the component is added to all person in the reservation
  - fakeroom – contains value true, if the component is settled for the person and need to be combined to each person in the resevation
  - type – component type (insurance/transport/...) doesnt need to be given, the parameter has only information value of what given component concerns
  - length – length of the stay for which the component should be added to the price; the component is added to the stay of each length; it occurs only for the components settled for stay (pricetype = STAY).
  - datefrom – dateto – specifies the range of dates when the component obliges. If the trip has at least one day of this range the component

should be added to the reservation. An example of such component could be "Christmas Eve dinner" which is added to the trips that duration includes the 24 XII date. These boxes are displayed only if they are filled with any date.

obligatory components section could obtain elements which must be reserved in the particular offer in every term; the price of the obligatory components is added to the price of the trip.

### 1.3. Trip list

File trip.xml contains list of the terms of offers. The term determines the duration, price and other specific parameters of particular trip. In order to determine possible configurations the need to be built by analyzing the information about particular extra beds (number of extra bed, number of occurrences) and by summing up the prices of particular extra beds.

Below an example of the trip:

```
<trip id="4185">
  <type>KAT</type>
  <superoffer>FALSE</superoffer>
  <offercode>Lb01</offercode>
  <offerid>148</offerid>
  <length>7</length>
  <startdate>2009-07-29</startdate>
  <enddate>2009-08-05</enddate>
  <hoteltype name="stay" />
  <transport>
    <departure id="2580">
      <type>flight</type>
      <planeid>32</planeid>
      <flightno>314</flightno>
      <airline>AEI</airline>
      <airlinename>Air Italy</airlinename>
      <departure_date>2009-07-29</departure_date>
      <departure_time>16:45:00</departure_time>
      <arrival_date>2009-07-29</arrival_date>
      <arrival_time>21:00:00</arrival_time>
      <departurenode>POZ</departurenode>
      <arrivalnode>AYT</arrivalnode>
      <hints>
        <hint label="luggage">20</hint>
        <hint label="handluggage">5</hint>
        <hint label="landing"></hint>
      </hints>
      <prices>
        <base>2109</base>
        <baseprice>2389</baseprice> <!-- base + obligatory components -->
        <bcbaseprice>2389</bcbaseprice>
        <historyprice>2999</historyprice>
        <bchistoryprice>2999</bchistoryprice>
        <roompricetype>PERSON</roompricetype>

      <price>
        <type>2-12_D1</type>
        <typename>Dziecko 2-12</typename>
        <personcode>CH</personcode>
        <amount>1179</amount>
        <bcamount>1179</bcamount>
        <additional_bed_no>1</additional_bed_no>
      </price>
    </departure>
  </transport>
  <age_from>2</age_from>
  <age_to>12</age_to>
  <apperance>1</apperance>
  <base>999</base>
</trip>
```



```
</price>

<price pricetype="PERSON">
  <type>SGL</type>
  <typename>Jedna osoba w pokoju DBL</typename>
  <personcode>SGL</personcode>
  <amount>1859</amount>
  <bcamount>1859</bcamount>
  <bcamount>1859</bcamount>
  <additional_bed_no>0</additional_bed_no>
  <age_from>0</age_from>
  <age_to>0</age_to>
  <apperance>1</apperance>
  <base>1609</base>
</price>
</prices>
```

```
<obligatorycomponents>
  <component id="1005">
    <description>Dopłata paliwowa</description>
    <price>100</price>
    <bcprice>100</bcprice>
    <age_from>2</age_from>
    <age_to>0</age_to>
    <pricetype>STAY</pricetype>
    <pricetype>PERSON</pricetype>
    <promotion>FALSE</promotion>
  </component>
</obligatorycomponents>
```

```
<optionalcomponents>
</optionalcomponents>
```

```
<arrival id="2563">
  <type>flight</type>
  <flightno>314</flightno>
  <airline>AEI</airline>
  <airlinename>Air Italy</airlinename>
  <departure_date>2009-08-05</departure_date>
  <departure_time>13:25:00</departure_time>
  <arrival_date>2009-08-05</arrival_date>
  <arrival_time>15:45:00</arrival_time>
  <departurenode>AYT</departurenode>
  <arrivalnode>POZ</arrivalnode>
</arrival>
</departure>
</transport>
```

```
<optionalcomponents>
</optionalcomponents>
```

```
<obligatorycomponents>
</obligatorycomponents>
```

```
</trip>
```

#### List of boxes:

- id – trips identification number in the system

- type – type of trip, possible two values 9last minute or catalog)
- superoffer – value true if the offer is marked as superoffer
- offercode – offer code
- length – length of stay
- startdate – the date of start of the stay
- enddate – the date of end of the stay
- hoteltype – possibilities: "stay"(stay), or "stayandgo" (roadshow trip)
  
- Section transport - contains information about plane or coach transport; it can obtain several different departures or arrivals:
  - departure or arrival – departure or arrival and its identification number
  - type – type of transport flight/bus
  - planeid/busid the identification number of the plane or coach (depending on the transport type)
  - flightno – only for planes – flight number
  - airline – only for planes – the code of the airline
  - airlinename – only for planes – the name of the airline
  - departure\_date – the starting date from the start node
  - departure\_time – the starting time from the start node
  - arrival\_date – time of arrival to the end node
  - arrival\_time – time of arrival to the end node
  - departurenode – start node
  - arrivalnode – end node
  - hints section – additional information about the transporttype
- \*luggage label – luggage weight
- \*handluggage label – hand luggage weight
- \*landing label – interlandings
  
- Section price – prices – it is basic price for trip (base persons – first X persons regardless of age, where X is the base amount of people in the room – in file offer.xml) and price for extra beds depending on their age and order (depending on the number of extra beds):
  - base – base price of base person in room
  - baseprice – price for base person in currency of sells (it is final price – obligatory components are included)
  - bcbaseprice – basic price in base currency
  - price – price in currency of sells
  - bcprice – equivalent of value in the node <price> in contract currency
  - type – code of price type (AD – prices for adult on extra bed, CH – prices for kids on extra bed, INF – price for infant, SGL – price for one adult, which takes whole room)
  - typename – name of component/extra bed, np. First child 2-12
  - amount – price in base currency (is the final price, where obligatory components are included)
  - additional\_bed\_no – number of extra bed in order for which the price is valid (0 – price is valid for every extra bed of the type)
  - age\_from – ograniczenie wieku od (0 – no restrictions)
  - age\_to – ograniczenie wieku do (0 – no restrictions)
  - apperance – maximum number of occurrences (0 – no restrictions)
- Section optionalcomponents may contain elements that may be reserved

with trip, price of optional components should be added to trip price:

- id – element ID
- description – description
- price – price in currency of sells
- bcprice – equivalent of value in the node <price> in contract currency
- age\_from – age restriction from (for value 0 – no restrictions)
- age\_to – age restriction to (for value 0 – no restrictions)
- pricetype – type of price calculation – per stay / per day
- pricetype – type of price calculation – per room / per person
- Section obligatorycomponents may contain elements that must be reserved with trip, the price of the mandatory components is include in the trip price.

## 1.4. Import of components

There can be exported some components in offer and trip file.

In case of offer file, every component assign to offer is common for every trip assign to this offer.

Price of obligatory components is included into total price.

There is not exported total price of component in offerfullist.xml because sometimes it depends from length of trip.

In every component there is information how count its price per DAY or per STAY.

If it's counted per DAY, you need to multiply price of component by length of trips.

There are also % components (eg. insurance of resign 5%). It's also exported in offerfullist.xml

To calculate total price of component you need to multiply %rate with final/base price (take care how it's counted).

Example:

```
<offers>
  <offer id="2314">
    <hotel id="270">El Mouradi Beach</hotel>
    <hotelminage>0</hotelminage>
    <minagenum>0</minagenum>
    <maxinfnum>1</maxinfnum>
    <infasperson>TRUE</infasperson>
    <confs>
      <c>0_0</c>
    (... )
      <c>0_0_19_17</c>
    </confs>
    <type name="stay">
      <offer1 />
      <offer2 />
    </type>
    <room id="1211">
      <roomname>Standard Room</roomname>
      <roomtype>Standard</roomtype>
      <roompricetype>PERSON</roompricetype>
      <base_person_no>2</base_person_no>
      <additional_bed_no>1</additional_bed_no>
      <min_additional_bed_no>0</min_additional_bed_no>
      <max_ad_no>1</max_ad_no>
    </room>
  (... )
</offers>

<obligatorycomponents>
  <component id="39">
    <description>Transfer Child</description>
    <price>5</price>
    <age_from>2</age_from>
    <age_to>12</age_to>
    <pricetype>STAY</pricetype>
    <pricetype>PERSON</pricetype>
    <type>Transfer</type>
    <promotion>FALSE</promotion>
  </component>
  <component id="12">
    <description>Transfer Adult</description>
    <price>0</price>
    <bcprice>0</bcprice>
    <age_from>12</age_from>
    <age_to>0</age_to>
  </component>
</obligatorycomponents>
```

```
<pricetype>STAY</pricetype>
<pricetype>PERSON</pricetype>
<fakeroom>FALSE</fakeroom>
  <type>Transfer</type>
  <promotion>FALSE</promotion>
</component>
  <component id="4">
    <description>Cancel. Insurance %</description>
  <percentage>YES</percentage>
  <price>5</price>
  <bcprice>0</bcprice>
  <age_from>0</age_from>
  <age_to>0</age_to>
  <pricetype>STAY</pricetype>
  <pricetype>PERSON</pricetype>
  <fakeroom>FALSE</fakeroom>
  <type>Cancellation Insurance</type>
  <promotion>FALSE</promotion>
</component>
</obligatorycomponents>

<optionalcomponents>
  <component id="3">
    <description>Base Insurance</description>
    <price>39855.07</price>
    <bcprice>550</bcprice>
    <age_from>2</age_from>
    <age_to>0</age_to>
    <pricetype>DAY</pricetype>
    <pricetype>PERSON</pricetype>
    <addtoallpersons>FALSE</addtoallpersons>
    <fakeroom>FALSE</fakeroom>
    <type>Insurance</type>
  </component>
</optionalcomponents>
</offer>
```

## 1.5 Importing prices of accommodation configurations

In this chapter is an explanation how to calculate the total price for every possible configuration of accommodation in room.

Information about it are in two files:

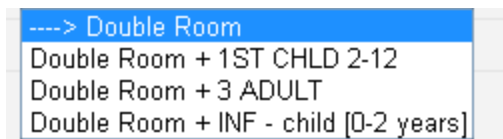
File *offerfulllist.xml* - list of all possible configurations

File *tripfulllist.xml* - price for persons. You need to calculate total price of configuration using pattern from *offerfulllist.xml*

on green important fields:

```
<offer id="430">
  <hotel id="57">Agrabella Hotel</hotel>
  <hotelminage>0</hotelminage>
  <minagenum>0</minagenum>
  <maxinfnum>1</maxinfnum>
  <infasperson>TRUE</infasperson>
  <room id="199">
    <roomname>Double Room</roomname>
    <roomtype>Standard</roomtype>
    <roompricetype>PERSON</roompricetype>
    <base_person_no>2</base_person_no>
    <additional_bed_no>1</additional_bed_no>
    <min_additional_bed_no>0</min_additional_bed_no>
    <max_ad_no>1</max_ad_no>
    <confs>
      <c>0_0</c> <!-- AD, AD (0 means base person) -->
      <c>0_0_17</c> <!-- AD, AD, INF (17 is and id of price from tripfulllist.xml) -->
      <c>0_0_22</c> <!-- AD, AD, CHD -->
      <c>0_0_19</c> <!-- AD, AD, AD -->
      <c>18</c> <!-- SGL (actually in this room not allowed, but just for example -->
    </confs>
  </room>
  <maintenance>BB</maintenance>
  <maintenancename>Breakfast</maintenancename>
</offer>
```

In Bluevendo search engines choosing configuration for this example looks like that:



*tripfulllist.xml*

```
<trip id="17279">
  <type>KAT</type>
  <superoffer>FALSE</superoffer>
  <offercode>KAT</offercode>
  <offerid>430</offerid>
  <length>7</length>
  <startdate>2014-06-18</startdate>
  <enddate>2014-06-25</enddate>
  <hoteltype name="stay" />
  <transport>
    <departure id="521">
      <type>flight</type>
      <planeid>27</planeid>
      <flightno>A3 4235</flightno>
      <airline>A3</airline>
      <airlinename>Aegean Airlines</airlinename>
      <departure_date>2014-06-18</departure_date>
      <departure_time>20:30</departure_time>
      <arrival_date>2014-06-18</arrival_date>
      <arrival_time>23:30</arrival_time>
    </departure>
  </transport>
</trip>
```

```

<departurenode>BUD</departurenode>
<arrivalnode>HER</arrivalnode>
<hints>
  <hint label="luggage">20</hint>
  <hint label="handluggage">5</hint>
  <hint label="landing"></hint>
</hints>
<prices>
  <baseprice>124498</baseprice>
  <bcbaseprice>124498</bcbaseprice>
  <historyprice>131589</historyprice>
  <bchistoryprice>131589.00</bchistoryprice>
  <paidonthespotprice>0.00</paidonthespotprice>
  <paidonthespotbcprice>0</paidonthespotbcprice>
  <paidonthespotpricecurrency>EUR</paidonthespotpricecurrency>
  <base>92900</base>
  <roompricetype>PERSON</roompricetype>

  <price id="17" pricetype="PERSON">
    <type>INF</type>
    <typename>INF - child (0-2 years)</typename>
    <personcode>INF</personcode>
    <amount>20260</amount>
    <bcamount>20260</bcamount>
    <additional_bed_no>0</additional_bed_no>
    <age_from>0</age_from>
    <age_to>2</age_to>
    <apperance>0</apperance>
    <paidonthespotprice>0.00</paidonthespotprice>
    <paidonthespotbcprice>0</paidonthespotbcprice>
    <base>20000</base>
  </price>

  <price id="22" pricetype="PERSON">
    <type>1ST CHLD 2-12</type>
    <typename>1ST CHLD 2-12</typename>
    <personcode>CH</personcode>
    <amount>93095</amount>
    <bcamount>93095</bcamount>
    <additional_bed_no>1</additional_bed_no>
    <age_from>2</age_from>
    <age_to>12</age_to>
    <apperance>1</apperance>
    <paidonthespotprice>0.00</paidonthespotprice>
    <paidonthespotbcprice>0</paidonthespotbcprice>
    <base>61900</base>
  </price>

  <price id="19" pricetype="PERSON">
    <type>3RD ADLT</type>
    <typename>3RD ADULT</typename>
    <personcode>AD</personcode>
    <amount>116394</amount>
    <bcamount>116394</bcamount>
    <additional_bed_no>1</additional_bed_no>
    <age_from>0</age_from>
    <age_to>0</age_to>
    <apperance>0</apperance>
    <paidonthespotprice>0.00</paidonthespotprice>
    <paidonthespotbcprice>0</paidonthespotbcprice>
    <base>84900</base>
  </price>
</prices>

```

To calculate the total price of all configurations you need to for each of node <c> (offerfullist.xml) add person prices (from tripfullist.xml)

In our example:

```

<c>0_0</c> total_price = 124498 + 124498
// total_base_price = 92900 + 92900 (base + base)

<c>0_0_17</c> total_price = 124498 + 124498 + 20260

```

```
// total_base_price = 92900 + 92900 + 20000 (base + base + price[id=17]/base)

<c>0_0_22</c> total_price = 124498 + 124498 + 93095
// total_base_price = 92900 + 92900 + 61900 (base + base + price[id=22]/base)

<c>0_0_19</c> total_price = 124498 + 124498 + 116394
// total_base_price = 92900 + 92900 + 84900 (base + base + price[id=19]/base)

<c>18</c> total_price = 12345
// total_base_price = 123456 (price[id=18]/base)
```



## 2. Import settings

New XML files with current offer are generated not less than every hour.

Downloading is done by reference to a script with parameters offer.php. These parameters can be uploaded with methods POST and GET.

### **Login parameters and location of the script offer.php**

In order to obtain these parameters, please contact the tour operator.

- username – user login
- password – user password

### **Control parameters:**

Parameters that allows selection of part of offers. The main parameter is the: cmd, it takes following values:

- hotels\_z – list of hotels in zip format
- offers\_z – list of offers in zip format
- trips\_z – list of trips in zip format
  
- list of countries  
parameter cmd=countries  
allows to download countries with ID's
  
- list of regions  
parameter cmd=regions  
allows to download regions with ID's and assigned country
  
- list of departure nodes  
parameter cmd=departurenodes  
allows to download departure nodes
  
- list of arriva nodes  
parameter cmd=arivalnodes  
allows to download arrival nodes
  
- list of trips that starts in the next 30 days:  
parameter cmd=30daytripfulllist

### 3. Download files

Here is an example of the simplest script which can download XML files.

```
<?php
$data =
implode(file("https://xxx.bluevendo.com/offer.php?cmd=hotel_z&username=xxx&password=xxx"));
if($fh = fopen(/tmp/localfile, 'w+'))
{
    fputs($fh, $data);
    fclose($fh);
}
?>
```

### 4. Final annotation

- The files contain the data in UTF-8.
- Hotel descriptions have HTML tags.
- Special charsets are encoding eg:
  - “&” to “&amp;”;
  - “<” to “&lt;”;
  - “>” to “&gt;”;