


References

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Screen Prototypes

1. Tour map

This is how the tour map is shown in the map as the output of the system. The shortest path has been calculated and shown using polylines of google map.

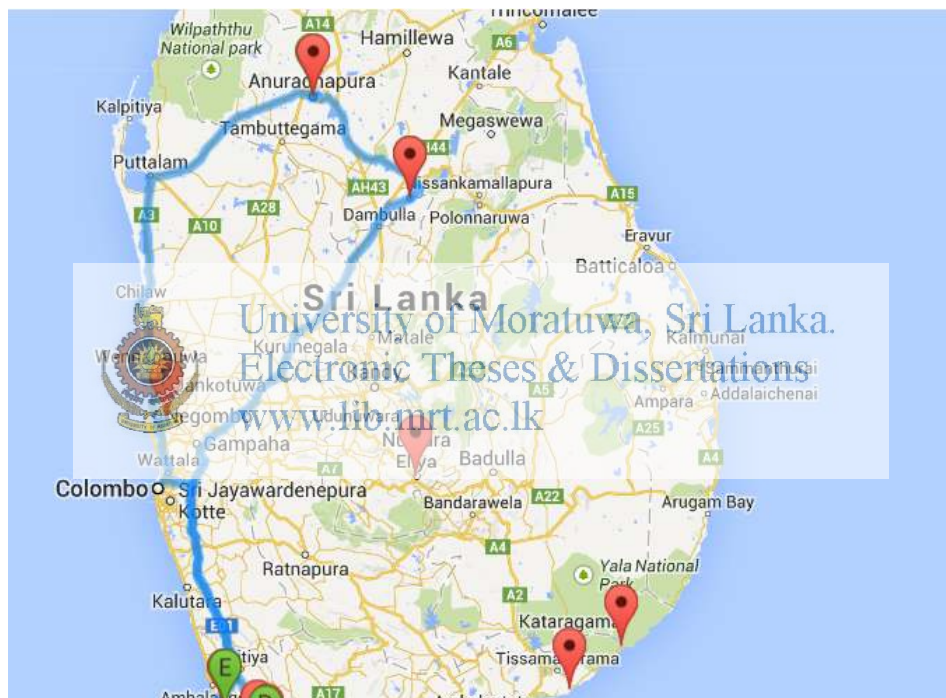


Figure A.1 : Tour Map

2. Login Screen

This screen will be used to create new user accounts for the tourists and the administrators of the system. The same screen will be used to login to the system.



Figure A.2 : Login Screen



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2. Home page

Once login to the system, the recommended touristic activities of the logged in user will be shown in the home page.



Figure A.3 : Home Page

3. User Preferences

This screen will be used to capture the preference of the user in order to calculate the tour plan.

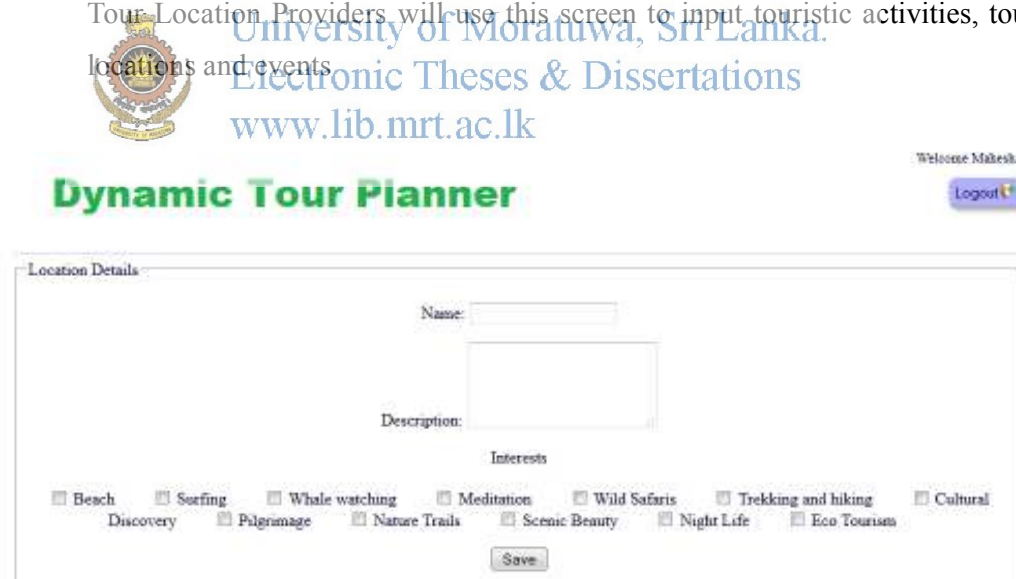


The screenshot shows a web form titled "Preferences". It contains several input fields: "Arrival: -- Select --" and "Departure: -- Select --" are dropdown menus; "From Date:" and "To Date:" are text boxes; and "Budget:" is a text box. Below these is a section titled "Interests" with a grid of 14 checkboxes for activities: Beach, Surfing, Whale watching, Meditation, Wild Safaris, Trekking and hiking, Cultural Discovery, Pilgrimage, Nature Trails, Scenic Beauty, Night Life, and Eco Tourism. A "Save" button is located at the bottom center of the form.

Figure A.4 : User Preferences

4. Touristic Activities

Tour-Location Providers will use this screen to input touristic activities, tour locations and events.



The screenshot shows a web page for "Dynamic Tour Planner" with a "Location Details" form. The form includes a "Name:" text box, a larger "Description:" text area, and an "Interests" section with 14 checkboxes for activities: Beach, Surfing, Whale watching, Meditation, Wild Safaris, Trekking and hiking, Cultural Discovery, Pilgrimage, Nature Trails, Scenic Beauty, Night Life, and Eco Tourism. A "Save" button is at the bottom. The page also features a watermark for the University of Moratuwa, Sri Lanka, and a "Logout" button in the top right corner.

Figure A.5 : Touristic Activities

Query Results

1. What are the five star hotels available around the natural tour locations in Sri Lanka?

PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>

PREFIX owl: <http://www.w3.org/2002/07/owl#>

PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>

PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>

PREFIX tp: <http://www.location.lk/ontologies/location.owl#>

```
SELECT ?Hotel ?NaturalLocation
WHERE { ?Hotel rdf:type tp:FiveStarHotel .
?Hotel tp:hasCloseLocation ?NaturalLocation .
?NaturalLocation rdf:type tp:NaturalTourLocation . }
```



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Result

Hotel	NaturalLocation
-------	-----------------

tp:KirindaBeachHotel	tp:Udawalawe
----------------------	--------------

Inferred Result

Hotel	NaturalLocation
-------	-----------------

tp:KirindaBeachHotel	tp:YalaNationalPark
----------------------	---------------------

tp:KirindaBeachHotel	tp:Udawalawe
----------------------	--------------

tp:HeritanceKandalama	tp:DambullaCaveTemple
-----------------------	-----------------------

tp:HeritanceKandalama	tp:MinneriyaNationalPark
-----------------------	--------------------------

1. Find the other activities of the tourist Locations which has the activity Bird Watching

PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>

PREFIX owl: <http://www.w3.org/2002/07/owl#>

PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>

PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>

PREFIX tp: <http://www.location.lk/ontologies/location.owl#>

```
SELECT ?TourLocation ?Activity
WHERE { ?TourLocation rdf:type tp:Location .
?TourLocation tp:hasActivity tp:BirdWatching .
?TourLocation tp:hasActivity ?Activity . }
```

=====
Result
=====

	TourLocation	Activity
tp:AmayaLeasurePark	tp:TableTennis	
tp:AmayaLeasurePark	tp:Safari	
tp:AmayaLeasurePark	tp:BirdWatching	

Infered Result

| TourLocation | Activity |

| tp:AmayaLeasurePark | tp:TableTennis |

| tp:AmayaLeasurePark | tp:Safari |

| tp:AmayaLeasurePark | tp:BirdWatching |

| tp:KirindaBeachHotel | tp:SunBathing |

| tp:KirindaBeachHotel | tp:BirdWatching |

| tp:HeritanceKandalama | tp:Yoga |

| tp:HeritanceKandalama | tp:BirdWatching |

| tp:HeritanceKandalama | tp:Safari |

| tp:HeritageDambulla | tp:TableTennis |

| tp:HeritageDambulla | tp:BirdWatching |

| tp:AraliyaHotel | tp:TableTennis |

| tp:AraliyaHotel | tp:Pool |

| tp:AraliyaHotel | tp:BirdWatching |

| tp:YalaNationalPark | tp:Safari |

| tp:YalaNationalPark | tp:BirdWatching |



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Appendix C

Inferred Class Hierarchy of Ontology

Class Hierarchy and Inferred class hierarchy is as shown below. Refer owl in Appendix E for full class hierarchy.

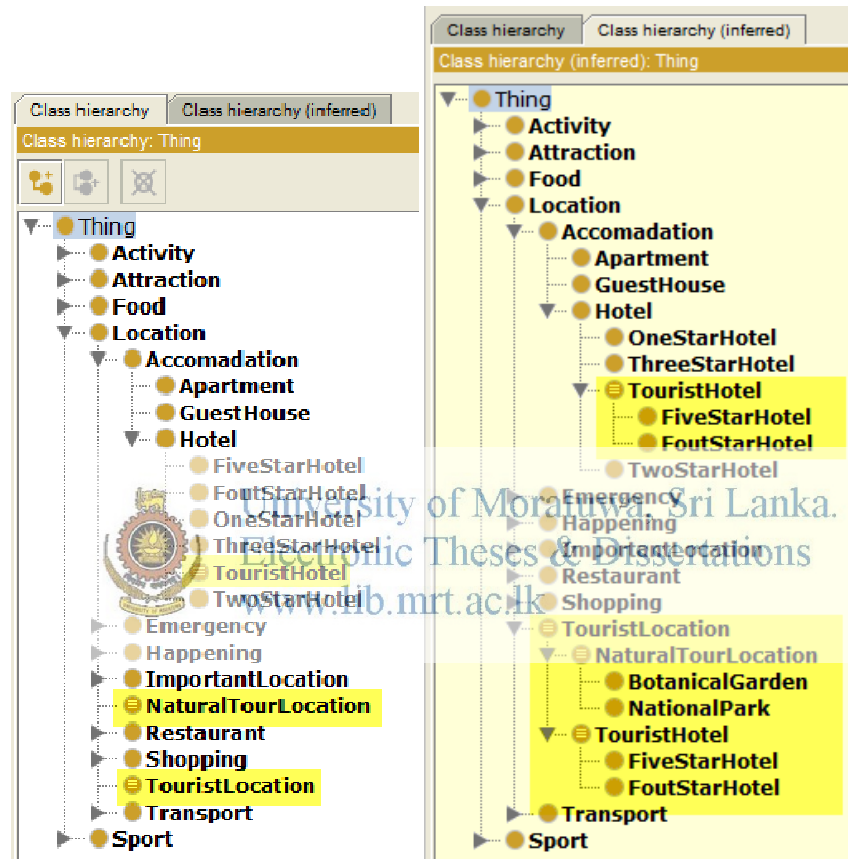


Figure C.1 : Inferred Class Hierarchy of Ontology

For example the Hotels which are having some attraction of any kind have been defined as TouristHotels.

Appendix D

Ontology OWL

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

```
<!DOCTYPE rdf:RDF [
```

```
  <!ENTITY owl "http://www.w3.org/2002/07/owl#" >
```

```
  <!ENTITY xsd "http://www.w3.org/2001/XMLSchema#" >
```

```
  <!ENTITY rdfs "http://www.w3.org/2000/01/rdf-schema#" >
```

```
  <!ENTITY rdf "http://www.w3.org/1999/02/22-rdf-syntax-ns#" >
```

```
  <!ENTITY location "http://www.location.lk/ontologies/location.owl#" >
```

```
]>
```

```
<rdf:RDF xmlns="http://www.location.lk/ontologies/location#"
```

```
  xml:base="http://www.location.lk/ontologies/location"
```

```
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
```

```
  xmlns:location="http://www.location.lk/ontologies/location.owl#"
```

```
  xmlns:owl="http://www.w3.org/2002/07/owl#"
```

```
  xmlns:xsd="http://www.w3.org/2001/XMLSchema#"
```

```
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#">
```

```
<owl:Ontology rdf:about="http://www.location.lk/ontologies/location.owl"/>
```

```
<!-- http://www.location.lk/ontologies/location.owl#hasActivity -->
```

```
<owl:ObjectProperty rdf:about="&location;hasActivity">
```

```
  <owl:inverseOf rdf:resource="&location;isActivityOf"/>
```

```
</owl:ObjectProperty>
```

```
<!-- http://www.location.lk/ontologies/location.owl#hasAttraction -->
```

```
<owl:ObjectProperty rdf:about="&location;hasAttraction"/>
```

```
<!-- http://www.location.lk/ontologies/location.owl#hasCloseLocation -->
```

```
<owl:ObjectProperty rdf:about="&location;hasCloseLocation">  
  <rdf:type rdf:resource="&owl;SymmetricProperty"/>  
  <rdf:type rdf:resource="&owl;TransitiveProperty"/>  
</owl:ObjectProperty>
```

```
<!-- http://www.location.lk/ontologies/location.owl#hasFood -->
```

```
<owl:ObjectProperty rdf:about="&location;hasFood"/>
```

```
<!-- http://www.location.lk/ontologies/location.owl#hasLocation -->
```

```
<owl:ObjectProperty rdf:about="&location;hasLocation"/>
```

```
<!-- http://www.location.lk/ontologies/location.owl#hasSport -->
```

```
<owl:ObjectProperty rdf:about="&location;hasSport">  
  <rdfs:subPropertyOf rdf:resource="&owl;topObjectProperty"/>  
</owl:ObjectProperty>
```

```
<!-- http://www.location.lk/ontologies/location.owl#isActivityOf -->
```

```
<owl:ObjectProperty rdf:about="&location;isActivityOf"/>
```

```
<!--  
////////////////////////////////////  
//  
// Data properties  
//  
////////////////////////////////////  
-->
```

```
<!-- http://www.location.lk/ontologies/location.owl#hasCoordinate -->
```

```
<owl:DatatypeProperty rdf:about="&location;hasCoordinate">
  <rdf:type rdf:resource="&owl;FunctionalProperty"/>
</owl:DatatypeProperty>
```

```
<!-- http://www.location.lk/ontologies/location.owl#hasName -->
```

```
<owl:DatatypeProperty rdf:about="&location;hasName"/>
```

```
<!--
////////////////////////////////////
//
// Classes
//
////////////////////////////////////
-->
```

```
<!-- http://www.location.lk/ontologies/location.owl#Accomadation -->
<owl:Class rdf:about="&location;Accomadation">
  <rdfs:subClassOf rdf:resource="&location;Location"/>
</owl:Class>
```



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```
<!-- http://www.location.lk/ontologies/location.owl#Activity -->
```

```
<owl:Class rdf:about="&location;Activity">
  <rdfs:subClassOf rdf:resource="&owl;Thing"/>
  <rdfs:comment>An activities that tourists can carry out. These activites can be
available in tourist locations</rdfs:comment>
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#Adventure -->
```

```
<owl:Class rdf:about="&location;Adventure">
  <rdfs:subClassOf rdf:resource="&location;Sport"/>
```

</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#AirSport -->

<owl:Class rdf:about="&location;AirSport">

<rdfs:subClassOf rdf:resource="&location;SportActivity"/>

</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#Airline -->

<owl:Class rdf:about="&location;Airline">

<rdfs:subClassOf rdf:resource="&location;Transport"/>

</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#Apartment -->

<owl:Class rdf:about="&location;Apartment">

<rdfs:subClassOf rdf:resource="&location;Accommodation"/>

</owl:Class>



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<!-- http://www.location.lk/ontologies/location.owl#Aquatic -->

<owl:Class rdf:about="&location;Aquatic">

<rdfs:subClassOf rdf:resource="&location;Sport"/>

</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#Archeology -->

<owl:Class rdf:about="&location;Archeology">

<rdfs:subClassOf rdf:resource="&location;Museum"/>

</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#Architectural -->

```
<owl:Class rdf:about="&location;Architectural">
  <rdfs:subClassOf rdf:resource="&location;Museum"/>
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#Art -->
```

```
<owl:Class rdf:about="&location;Art">
  <rdfs:subClassOf rdf:resource="&location;Traditional"/>
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#ArtPerformance -->
```

```
<owl:Class rdf:about="&location;ArtPerformance">
  <rdfs:subClassOf rdf:resource="&location;Happening"/>
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#Attraction -->
```



```
<owl:Class rdf:about="&location;Attraction">
```

```
  <rdfs:comment>Diffrent kind of attractions refers to tourist
locations</rdfs:comment>
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#Beach -->
```

```
<owl:Class rdf:about="&location;Beach">
  <rdfs:subClassOf rdf:resource="&location;NaturalLocation"/>
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#Beauty -->
```

```
<owl:Class rdf:about="&location;Beauty">
  <rdfs:subClassOf rdf:resource="&location;Attraction"/>
```

```

</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#BookStore -->

<owl:Class rdf:about="&location;BookStore">
  <rdfs:subClassOf rdf:resource="&location;Shopping"/>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#BotanicalGarden -->

<owl:Class rdf:about="&location;BotanicalGarden">
  <rdfs:subClassOf rdf:resource="&location;NaturalLocation"/>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="&location;hasAttraction"/>
      <owl:someValuesFrom rdf:resource="&location;Natural"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#Bowling -->

<owl:Class rdf:about="&location;Bowling">
  <rdfs:subClassOf rdf:resource="&location;SportActivity"/>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#BusService -->

<owl:Class rdf:about="&location;BusService">
  <rdfs:subClassOf rdf:resource="&location;Transport"/>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#Cafe -->

```



```
<owl:Class rdf:about="&location;Cafe">
  <rdfs:subClassOf rdf:resource="&location;Restaurant"/>
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#Casino -->
```

```
<owl:Class rdf:about="&location;Casino">
  <rdfs:subClassOf rdf:resource="&location;SportActivity"/>
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#Celebrations -->
```

```
<owl:Class rdf:about="&location;Celebrations">
  <rdfs:subClassOf rdf:resource="&location;Traditional"/>
</owl:Class>
```



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```
<!-- http://www.location.lk/ontologies/location.owl#Chinese -->
```

```
<owl:Class rdf:about="&location;Chinese">
  <rdfs:subClassOf rdf:resource="&location;Food"/>
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#Church -->
```

```
<owl:Class rdf:about="&location;Church">
  <rdfs:subClassOf rdf:resource="&location;ReligiousLocation"/>
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#CofeeShop -->
```

```
<owl:Class rdf:about="&location;CofeeShop">
  <rdfs:subClassOf rdf:resource="&location;Food"/>
```


</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#Concert -->

<owl:Class rdf:about="&location;Concert">

<rdfs:subClassOf rdf:resource="&location;ArtPerformance"/>

</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#Cultural -->

<owl:Class rdf:about="&location;Cultural">

<rdfs:subClassOf rdf:resource="&location;Attraction"/>

</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#Cycling -->

<owl:Class rdf:about="&location;Cycling">

<rdfs:subClassOf rdf:resource="&location;SportActivity"/>

</owl:Class>



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<!-- http://www.location.lk/ontologies/location.owl#DanceFestival -->

<owl:Class rdf:about="&location;DanceFestival">

<rdfs:subClassOf rdf:resource="&location;Happening"/>

</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#DutyFreeShop -->

<owl:Class rdf:about="&location;DutyFreeShop">

<rdfs:subClassOf rdf:resource="&location;Shopping"/>

</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#Emergency -->

```

<owl:Class rdf:about="&location;Emergency">
  <rdfs:subClassOf rdf:resource="&location;Location"/>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#Estate -->

<owl:Class rdf:about="&location;Estate">
  <rdfs:subClassOf rdf:resource="&location;NaturalLocation"/>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#Exhibition -->

<owl:Class rdf:about="&location;Exhibition">
  <rdfs:subClassOf rdf:resource="&location;Happening"/>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#FiveStarHotel -->

```



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```

<owl:Class rdf:about="&location;FiveStarHotel">
  <rdfs:subClassOf rdf:resource="&location;Hotel"/>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="&location;hasAttraction"/>
      <owl:someValuesFrom rdf:resource="&location;Attraction"/>
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="&location;hasActivity"/>
      <owl:someValuesFrom rdf:resource="&location;Activity"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>

```

```

<!-- http://www.location.lk/ontologies/location.owl#Food -->

<owl:Class rdf:about="&location;Food">
  <rdfs:subClassOf rdf:resource="&owl;Thing"/>
  <rdfs:comment>Food categories expected by tourists</rdfs:comment>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#Forest -->

<owl:Class rdf:about="&location;Forest">
  <rdfs:subClassOf rdf:resource="&location;NaturalLocation"/>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#FoutStarHotel -->

<owl:Class rdf:about="&location;FoutStarHotel">
  <rdfs:subClassOf rdf:resource="&location;Hotel"/>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="&location;hasAttraction"/>
      <owl:someValuesFrom rdf:resource="&location;Attraction"/>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#Golf -->

<owl:Class rdf:about="&location;Golf">
  <rdfs:subClassOf rdf:resource="&location;SportActivity"/>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#GuestHouse -->

```



```

<owl:Class rdf:about="&location;GuestHouse">
  <rdfs:subClassOf rdf:resource="&location;Accomadation"/>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#Happening -->

<owl:Class rdf:about="&location;Happening">
  <rdfs:subClassOf rdf:resource="&location;Location"/>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#Hiking -->

<owl:Class rdf:about="&location;Hiking">
  <rdfs:subClassOf rdf:resource="&location;SportActivity"/>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#HistorialMuseum -->

```



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```

<owl:Class rdf:about="&location;HistorialMuseum">
  <rdfs:subClassOf rdf:resource="&location;Museum"/>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#Historical -->

<owl:Class rdf:about="&location;Historical">
  <rdfs:subClassOf rdf:resource="&location;Attraction"/>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#Hospital -->

<owl:Class rdf:about="&location;Hospital">
  <rdfs:subClassOf rdf:resource="&location;Emergency"/>
  <owl:disjointWith rdf:resource="&location;Police"/>

```

```

</owl:Class>
<!-- http://www.location.lk/ontologies/location.owl#Hotel -->

<owl:Class rdf:about="&location;Hotel">
  <rdfs:subClassOf rdf:resource="&location;Accomadation"/>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#ImportantLocation -->

<owl:Class rdf:about="&location;ImportantLocation">
  <rdfs:subClassOf rdf:resource="&location;Location"/>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#Indoor -->

<owl:Class rdf:about="&location;Indoor">
  <rdfs:subClassOf rdf:resource="&location;Sport"/>
  <owl:disjointWith rdf:resource="&location;Outdoor"/>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#InternationalRestaurant -->

<owl:Class rdf:about="&location;InternationalRestaurant">
  <rdfs:subClassOf rdf:resource="&location;Restaurant"/>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#Island -->

<owl:Class rdf:about="&location;Island">
  <rdfs:subClassOf rdf:resource="&location;NaturalLocation"/>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#Japanese -->

```



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```
<owl:Class rdf:about="&location;Japanese">
  <rdfs:subClassOf rdf:resource="&location;Food"/>
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#Korean -->
```

```
<owl:Class rdf:about="&location;Korean">
  <rdfs:subClassOf rdf:resource="&location;Food"/>
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#Location -->
```

```
<owl:Class rdf:about="&location;Location">
  <rdfs:subClassOf rdf:resource="&owl;Thing"/>
  <rdfs:comment>All the important locations that tourists can be
interested</rdfs:comment>
```

```
</owl:Class>
```



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```
<!-- http://www.location.lk/ontologies/location.owl#MotorSport -->
```

```
<owl:Class rdf:about="&location;MotorSport">
  <rdfs:subClassOf rdf:resource="&location;SportActivity"/>
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#Mountain -->
```

```
<owl:Class rdf:about="&location;Mountain">
  <rdfs:subClassOf rdf:resource="&location;NaturalLocation"/>
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#Museum -->
```

```
<owl:Class rdf:about="&location;Museum">
```

```

    <rdfs:subClassOf rdf:resource="&location;ImportantLocation"/>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#MusicFestival -->

<owl:Class rdf:about="&location;MusicFestival">
    <rdfs:subClassOf rdf:resource="&location;Happening"/>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#NationalPark -->

<owl:Class rdf:about="&location;NationalPark">
    <rdfs:subClassOf rdf:resource="&location;NaturalLocation"/>
    <rdfs:subClassOf>
        <owl:Restriction>
            <owl:onProperty rdf:resource="&location;hasAttraction"/>
            <owl:someValuesFrom rdf:resource="&location;Natural"/>
        </owl:Restriction>
    </rdfs:subClassOf>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#Natural -->

<owl:Class rdf:about="&location;Natural">
    <rdfs:subClassOf rdf:resource="&location;Attraction"/>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#NaturalLocation -->

<owl:Class rdf:about="&location;NaturalLocation">
    <rdfs:subClassOf rdf:resource="&location;ImportantLocation"/>
</owl:Class>

```



```
<!-- http://www.location.lk/ontologies/location.owl#NaturalTourLocation -->
```

```
<owl:Class rdf:about="&location;NaturalTourLocation">
```

```
  <owl:equivalentClass>
```

```
    <owl:Class>
```

```
      <owl:intersectionOf rdf:parseType="Collection">
```

```
        <rdf:Description rdf:about="&location;Location"/>
```

```
        <owl:Restriction>
```

```
          <owl:onProperty rdf:resource="&location;hasAttraction"/>
```

```
          <owl:someValuesFrom rdf:resource="&location;Natural"/>
```

```
        </owl:Restriction>
```

```
      </owl:intersectionOf>
```

```
    </owl:Class>
```

```
  </owl:equivalentClass>
```

```
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#NatureMuseum -->
```



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```
<owl:Class rdf:about="&location;NatureMuseum">
```

```
  <rdfs:subClassOf rdf:resource="&location;Museum"/>
```

```
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#NightLife -->
```

```
<owl:Class rdf:about="&location;NightLife">
```

```
  <rdfs:subClassOf rdf:resource="&location;Activity"/>
```

```
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#NonAquatic -->
```

```
<owl:Class rdf:about="&location;NonAquatic">
```

```
  <rdfs:subClassOf rdf:resource="&location;Sport"/>
```

```
</owl:Class>
```



```
<!-- http://www.location.lk/ontologies/location.owl#OlympicGames -->
```

```
<owl:Class rdf:about="&location;OlympicGames">  
  <rdfs:subClassOf rdf:resource="&location;SportEvents"/>  
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#OneStarHotel -->
```

```
<owl:Class rdf:about="&location;OneStarHotel">  
  <rdfs:subClassOf rdf:resource="&location;Hotel"/>  
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#Opera -->
```

```
<owl:Class rdf:about="&location;Opera">  
  <rdfs:subClassOf rdf:resource="&location;ArtPerformance"/>  
</owl:Class>
```



```
<!-- http://www.location.lk/ontologies/location.owl#Outdoor -->
```

```
<owl:Class rdf:about="&location;Outdoor">  
  <rdfs:subClassOf rdf:resource="&location;Sport"/>  
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#Pharmacy -->
```

```
<owl:Class rdf:about="&location;Pharmacy">  
  <rdfs:subClassOf rdf:resource="&location;Emergency"/>  
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#Police -->
```

```
<owl:Class rdf:about="&location;Police">
```

```

    <rdfs:subClassOf rdf:resource="&location;Emergency"/>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#Rafting -->

<owl:Class rdf:about="&location;Rafting">
    <rdfs:subClassOf rdf:resource="&location;SportActivity"/>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#RawFish -->

<owl:Class rdf:about="&location;RawFish">
    <rdfs:subClassOf rdf:resource="&location;Food"/>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#Relaxation -->
<owl:Class rdf:about="&location;Relaxation">
    <rdfs:subClassOf rdf:resource="&location;Activity"/>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#Religious -->

<owl:Class rdf:about="&location;Religious">
    <rdfs:subClassOf rdf:resource="&location;Attraction"/>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#ReligiousLocation -->

<owl:Class rdf:about="&location;ReligiousLocation">
    <rdfs:subClassOf rdf:resource="&location;ImportantLocation"/>
</owl:Class>

```



```
<!-- http://www.location.lk/ontologies/location.owl#Restaurant -->
```

```
<owl:Class rdf:about="&location;Restaurant">  
  <rdfs:subClassOf rdf:resource="&location;Location"/>  
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#River -->
```

```
<owl:Class rdf:about="&location;River">  
  <rdfs:subClassOf rdf:resource="&location;NaturalLocation"/>  
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#Sailing -->
```

```
<owl:Class rdf:about="&location;Sailing">  
  <rdfs:subClassOf rdf:resource="&location;SportActivity"/>  
</owl:Class>
```



```
<!-- http://www.location.lk/ontologies/location.owl#Shopping -->
```

```
<owl:Class rdf:about="&location;Shopping">  
  <rdfs:subClassOf rdf:resource="&location;Location"/>  
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#ShoppingComplex -->
```

```
<owl:Class rdf:about="&location;ShoppingComplex">  
  <rdfs:subClassOf rdf:resource="&location;Shopping"/>  
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#Sightseeing -->
```

```
<owl:Class rdf:about="&location;Sightseeing">
```

```

    <rdfs:subClassOf rdf:resource="&location;Activity"/>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#SouvenirShop -->

<owl:Class rdf:about="&location;SouvenirShop">
    <rdfs:subClassOf rdf:resource="&location;Shopping"/>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#Sport -->

<owl:Class rdf:about="&location;Sport">
    <rdfs:subClassOf rdf:resource="&owl;Thing"/>
    <rdfs:comment>Different categories of sport a tourist can play in tour
locations</rdfs:comment>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#SportActivity -->
<img alt="University of Moratuwa, Sri Lanka. Electronic Theses & Dissertations logo" data-bbox="265 468 328 531"/>
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<owl:Class rdf:about="&location;SportActivity">
    <rdfs:subClassOf rdf:resource="&location;Activity"/>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#SportEvents -->

<owl:Class rdf:about="&location;SportEvents">
    <rdfs:subClassOf rdf:resource="&location;Happening"/>
</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#SriLankan -->

<owl:Class rdf:about="&location;SriLankan">
    <rdfs:subClassOf rdf:resource="&location;Food"/>
</owl:Class>

```

<!-- http://www.location.lk/ontologies/location.owl#Surfing -->

<owl:Class rdf:about="&location;Surfing">

<rdfs:subClassOf rdf:resource="&location;SportActivity"/>

</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#TaxiService -->

<owl:Class rdf:about="&location;TaxiService">

<rdfs:subClassOf rdf:resource="&location;Transport"/>

</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#Temple -->

<owl:Class rdf:about="&location;Temple">

<rdfs:subClassOf rdf:resource="&location;ReligiousLocation"/>

</owl:Class>



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<!-- http://www.location.lk/ontologies/location.owl#TheatrePerformance -->

<owl:Class rdf:about="&location;TheatrePerformance">

<rdfs:subClassOf rdf:resource="&location;ArtPerformance"/>

</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#ThreeStarHotel -->

<owl:Class rdf:about="&location;ThreeStarHotel">

<rdfs:subClassOf rdf:resource="&location;Hotel"/>

</owl:Class>

<!-- http://www.location.lk/ontologies/location.owl#TouristHotel -->

<owl:Class rdf:about="&location;TouristHotel">

```

<owl:equivalentClass>
  <owl:Class>
    <owl:intersectionOf rdf:parseType="Collection">
      <rdf:Description rdf:about="&location;Hotel"/>
      <owl:Restriction>
        <owl:onProperty rdf:resource="&location;hasAttraction"/>
        <owl:someValuesFrom rdf:resource="&location;Attraction"/>
      </owl:Restriction>
    </owl:intersectionOf>
  </owl:Class>
</owl:equivalentClass>
</owl:Class>

```

```

<!-- http://www.location.lk/ontologies/location.owl#TouristLocation -->

```

```

<owl:Class rdf:about="&location;TouristLocation">
  <owl:equivalentClass>
    <owl:Class>
      <owl:intersectionOf rdf:parseType="Collection">
        <rdf:Description rdf:about="&location;Location"/>
        <owl:Restriction>
          <owl:onProperty rdf:resource="&location;hasAttraction"/>
          <owl:someValuesFrom rdf:resource="&location;Attraction"/>
        </owl:Restriction>
      </owl:intersectionOf>
    </owl:Class>
  </owl:equivalentClass>
</owl:Class>

```

```

<!-- http://www.location.lk/ontologies/location.owl#Tournament -->

```

```

<owl:Class rdf:about="&location;Tournament">
  <rdfs:subClassOf rdf:resource="&location;SportEvents"/>

```

```
</owl:Class>
<!-- http://www.location.lk/ontologies/location.owl#Traditional -->
```

```
<owl:Class rdf:about="&location;Traditional">
  <rdfs:subClassOf rdf:resource="&location;Cultural"/>
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#TraditionalCelebration -->
```

```
<owl:Class rdf:about="&location;TraditionalCelebration">
  <rdfs:subClassOf rdf:resource="&location;Happening"/>
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#TraditionalMarket -->
```

```
<owl:Class rdf:about="&location;TraditionalMarket">
  <rdfs:subClassOf rdf:resource="&location;Shopping"/>
</owl:Class>
```



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```
<!-- http://www.location.lk/ontologies/location.owl#TraditionalRestaurant -->
```

```
<owl:Class rdf:about="&location;TraditionalRestaurant">
  <rdfs:subClassOf rdf:resource="&location;Restaurant"/>
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#Train -->
```

```
<owl:Class rdf:about="&location;Train">
  <rdfs:subClassOf rdf:resource="&location;Transport"/>
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#Transport -->
```

```
<owl:Class rdf:about="&location;Transport">  
  <rdfs:subClassOf rdf:resource="&location;Location"/>  
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#TwoStarHotel -->
```

```
<owl:Class rdf:about="&location;TwoStarHotel">  
  <rdfs:subClassOf rdf:resource="&location;Hotel"/>  
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#UnderWater -->
```

```
<owl:Class rdf:about="&location;UnderWater">  
  <rdfs:subClassOf rdf:resource="&location;SportActivity"/>  
</owl:Class>
```



```
<!-- http://www.location.lk/ontologies/location.owl#Waterfall -->
```

```
<owl:Class rdf:about="&location;Waterfall">  
  <rdfs:subClassOf rdf:resource="&location;NaturalLocation"/>  
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#Waterskiing -->
```

```
<owl:Class rdf:about="&location;Waterskiing">  
  <rdfs:subClassOf rdf:resource="&location;SportActivity"/>  
</owl:Class>
```

```
<!-- http://www.location.lk/ontologies/location.owl#ZooPark -->
```

```
<owl:Class rdf:about="&location;ZooPark">
```



```
<rdfs:subClassOf rdf:resource="&location;NaturalLocation"/>
</owl:Class>
```

```
<!-- http://www.w3.org/2002/07/owl#Thing -->
```

```
<rdf:Description rdf:about="&owl;Thing">
  <rdfs:comment>Describes a tourism ontology.</rdfs:comment>
</rdf:Description>
```

```
<!--
////////////////////////////////////
//
// Individuals
//
////////////////////////////////////
```

```
-->
<!--  University of Moratuwa, Sri Lanka.
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www.lib.mrt.ac.lk http://www.location.lk/ontologies/location.owl#AmayaLakeDambulla -->
```

```
<owl:NamedIndividual rdf:about="&location;AmayaLakeDambulla">
  <rdf:type rdf:resource="&location;FoutStarHotel"/>
  <location:hasCloseLocation rdf:resource="&location;Anuradhapura"/>
  <location:hasCloseLocation rdf:resource="&location;DambullaCaveTemple"/>
  <location:hasCloseLocation rdf:resource="&location;Polonnaruwa"/>
  <location:hasCloseLocation rdf:resource="&location;Sigiriya"/>
</owl:NamedIndividual>
```

```
<!-- http://www.location.lk/ontologies/location.owl#AmayaLeisurePark -->
```

```
<owl:NamedIndividual rdf:about="&location;AmayaLeisurePark">
  <rdf:type rdf:resource="&location;Location"/>
  <location:hasActivity rdf:resource="&location;BirdWatching"/>
  <location:hasActivity rdf:resource="&location;Safari"/>
```

```

    <location:hasActivity rdf:resource="&location;TableTennis"/>
</owl:NamedIndividual>

<!-- http://www.location.lk/ontologies/location.owl#Anuradhapura -->

<owl:NamedIndividual rdf:about="&location;Anuradhapura">
  <rdf:type rdf:resource="&location;Location"/>
  <rdf:type>
    <owl:Restriction>
      <owl:onProperty rdf:resource="&location;hasAttraction"/>
      <owl:someValuesFrom rdf:resource="&location;Religious"/>
    </owl:Restriction>
  </rdf:type>
  <rdf:type>
    <owl:Restriction>
      <owl:onProperty rdf:resource="&location;hasAttraction"/>
      <owl:someValuesFrom rdf:resource="&location;Historical"/>
    </owl:Restriction>
  </rdf:type>
</owl:NamedIndividual>

<!-- http://www.location.lk/ontologies/location.owl#AraliyaHotel -->

<owl:NamedIndividual rdf:about="&location;AraliyaHotel">
  <rdf:type rdf:resource="&location;Hotel"/>
  <location:hasActivity rdf:resource="&location;BirdWatching"/>
  <location:hasActivity rdf:resource="&location;Pool"/>
  <location:hasActivity rdf:resource="&location;TableTennis"/>
</owl:NamedIndividual>

<!-- http://www.location.lk/ontologies/location.owl#BirdWatching -->

<owl:NamedIndividual rdf:about="&location;BirdWatching">

```



```

    <rdf:type rdf:resource="&location;Activity"/>
</owl:NamedIndividual>

<!-- http://www.location.lk/ontologies/location.owl#CinnamonGrand -->

<owl:NamedIndividual rdf:about="&location;CinnamonGrand">
    <rdf:type rdf:resource="&location;FiveStarHotel"/>
</owl:NamedIndividual>

<!-- http://www.location.lk/ontologies/location.owl#Clubbing -->

<owl:NamedIndividual rdf:about="&location;Clubbing">
    <rdf:type rdf:resource="&location;NightLife"/>
</owl:NamedIndividual>

<!-- http://www.location.lk/ontologies/location.owl#DambullaCaveTemple -->
<owl:NamedIndividual rdf:about="&location;DambullaCaveTemple">
    <rdf:type rdf:resource="&location;Temple"/>
    <rdf:type>
        <owl:Restriction>
            <owl:onProperty rdf:resource="&location;hasAttraction"/>
            <owl:someValuesFrom rdf:resource="&location;Historical"/>
        </owl:Restriction>
    </rdf:type>
    <rdf:type>
        <owl:Restriction>
            <owl:onProperty rdf:resource="&location;hasAttraction"/>
            <owl:someValuesFrom rdf:resource="&location;Natural"/>
        </owl:Restriction>
    </rdf:type>
    <rdf:type>
        <owl:Restriction>

```

```

        <owl:onProperty rdf:resource="&location;hasAttraction"/>
        <owl:someValuesFrom rdf:resource="&location;Religious"/>
    </owl:Restriction>
</rdf:type>
</owl:NamedIndividual>

<!-- http://www.location.lk/ontologies/location.owl#ElephantWatching -->

<owl:NamedIndividual rdf:about="&location;ElephantWatching">
    <rdf:type rdf:resource="&location;Activity"/>
</owl:NamedIndividual>

<!-- http://www.location.lk/ontologies/location.owl#GaladariHotel -->

<owl:NamedIndividual rdf:about="&location;GaladariHotel">
    <rdf:type rdf:resource="&location;FiveStarHotel"/>
</owl:NamedIndividual>
<!-- http://www.location.lk/ontologies/location.owl#HeritageDambulla -->

<owl:NamedIndividual rdf:about="&location;HeritageDambulla">
    <rdf:type rdf:resource="&location;ThreeStarHotel"/>
    <location:hasActivity rdf:resource="&location;BirdWatching"/>
    <location:hasActivity rdf:resource="&location;TableTennis"/>
</owl:NamedIndividual>

<!-- http://www.location.lk/ontologies/location.owl#HeritanceKandalama -->

<owl:NamedIndividual rdf:about="&location;HeritanceKandalama">
    <rdf:type rdf:resource="&location;FiveStarHotel"/>
    <location:hasCoordinate rdf:datatype="&xsd:string">
7.86667,80.7167</location:hasCoordinate>
    <location:hasCloseLocation rdf:resource="&location;Anuradhapura"/>

```

```

<location:hasActivity rdf:resource="&location;BirdWatching"/>
<location:hasCloseLocation rdf:resource="&location;DambullaCaveTemple"/>
<location:hasCloseLocation rdf:resource="&location;MinneriyaNationalPark"/>
<location:hasCloseLocation rdf:resource="&location;Polonnaruwa"/>
<location:hasSport rdf:resource="&location;Pool"/>
<location:hasActivity rdf:resource="&location;Safari"/>
<location:hasCloseLocation rdf:resource="&location;Sigiriya"/>
<location:hasSport rdf:resource="&location;TableTennis"/>
<location:hasActivity rdf:resource="&location;Yoga"/>
</owl:NamedIndividual>

```

```

<!-- http://www.location.lk/ontologies/location.owl#HiltonColombo -->

```

```

<owl:NamedIndividual rdf:about="&location;HiltonColombo">
  <rdf:type rdf:resource="&location;FiveStarHotel"/>

```

```

  <location:hasActivity rdf:resource="&location;Yoga"/>
</owl:NamedIndividual>

```



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```

<!-- http://www.location.lk/ontologies/location.owl#KirindaBeach -->

```

```

<owl:NamedIndividual rdf:about="&location;KirindaBeach">
  <rdf:type rdf:resource="&location;Beach"/>

```

```

</owl:NamedIndividual>

```

```

<!-- http://www.location.lk/ontologies/location.owl#KirindaBeachHotel -->

```

```

<owl:NamedIndividual rdf:about="&location;KirindaBeachHotel">
  <rdf:type rdf:resource="&location;FiveStarHotel"/>

```

```

  <location:hasActivity rdf:resource="&location;BirdWatching"/>
  <location:hasCloseLocation rdf:resource="&location;KirindaBeach"/>
  <location:hasActivity rdf:resource="&location;SunBathing"/>
  <location:hasCloseLocation rdf:resource="&location;Udawalawe"/>
  <location:hasCloseLocation rdf:resource="&location;YalaNationalPark"/>

```

</owl:NamedIndividual>

<!-- http://www.location.lk/ontologies/location.owl#LakeLodge -->

<owl:NamedIndividual rdf:about="&location;LakeLodge">

<rdf:type rdf:resource="&location;FoutStarHotel"/>

</owl:NamedIndividual>

<!-- http://www.location.lk/ontologies/location.owl#MinneriyaNationalPark -->

<owl:NamedIndividual rdf:about="&location;MinneriyaNationalPark">

<rdf:type rdf:resource="&location;NationalPark"/>

</owl:NamedIndividual>

<!-- http://www.location.lk/ontologies/location.owl#Polonnaruwa -->

<owl:NamedIndividual rdf:about="&location;Polonnaruwa">
<rdf:type rdf:resource="&location;Location"/>
<rdf:type>

<owl:Restriction>

<owl:onProperty rdf:resource="&location;hasAttraction"/>

<owl:someValuesFrom rdf:resource="&location;Historical"/>

</owl:Restriction>

</rdf:type>

<rdf:type>

<owl:Restriction>

<owl:onProperty rdf:resource="&location;hasAttraction"/>

<owl:someValuesFrom rdf:resource="&location;Religious"/>

</owl:Restriction>

</rdf:type>

</owl:NamedIndividual>

<!-- http://www.location.lk/ontologies/location.owl#Pool -->



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```

<owl:NamedIndividual rdf:about="&location;Pool">
  <rdf:type rdf:resource="&location;Indoor"/>
  <rdf:type rdf:resource="&location;NonAquatic"/>
</owl:NamedIndividual>

<!-- http://www.location.lk/ontologies/location.owl#Safari -->

<owl:NamedIndividual rdf:about="&location;Safari">
  <rdf:type rdf:resource="&location;Sightseeing"/>
</owl:NamedIndividual>

<!-- http://www.location.lk/ontologies/location.owl#Sigiriya -->

<owl:NamedIndividual rdf:about="&location;Sigiriya">
  <rdf:type rdf:resource="&location;Location"/>
  <rdf:type>
    <owl:Restriction>
      <owl:onProperty rdf:resource="&location;hasAttraction"/>
      <owl:someValuesFrom rdf:resource="&location;Historical"/>
    </owl:Restriction>
  </rdf:type>
</owl:NamedIndividual>

<!-- http://www.location.lk/ontologies/location.owl#SunBathing -->

<owl:NamedIndividual rdf:about="&location;SunBathing">
  <rdf:type rdf:resource="&location;Relaxation"/>
</owl:NamedIndividual>

<!-- http://www.location.lk/ontologies/location.owl#TableTennis -->

<owl:NamedIndividual rdf:about="&location;TableTennis">
  <rdf:type rdf:resource="&location;Indoor"/>

```



```

    <rdf:type rdf:resource="&location;NonAquatic"/>
</owl:NamedIndividual>

<!-- http://www.location.lk/ontologies/location.owl#Udawalawe -->

<owl:NamedIndividual rdf:about="&location;Udawalawe">
    <rdf:type rdf:resource="&location;NaturalTourLocation"/>
</owl:NamedIndividual>

<!-- http://www.location.lk/ontologies/location.owl#YalaNationalPark -->

<owl:NamedIndividual rdf:about="&location;YalaNationalPark">
    <rdf:type rdf:resource="&location;NationalPark"/>
    <location:hasActivity rdf:resource="&location;BirdWatching"/>
    <location:hasActivity rdf:resource="&location;Safari"/>
</owl:NamedIndividual>
<!-- http://www.location.lk/ontologies/location.owl#Yoga -->
    <owl:NamedIndividual rdf:about="&location;Yoga">
        <rdf:type rdf:resource="&location;Relaxation"/>
    </owl:NamedIndividual>
</rdf:RDF>

```



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