Great Moonstone Oxen of the First and Forsaken Oceans

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Introduction

What is the problem?

It's often easy to forget the many crises occurring throughout the world. This site is designed to gather the data on every crisis, and present in a simple format. We gather details about victims, and information on organizations and people that want to help.

What are the use cases?

With the increasing availability of telecommunication access and this site makes use of this to share news and help victims. This site can be a good source for anyone looking to get informed and help. We can provide contact information for people and organizations involved in helping the victims of crises around the world. People who want to help can look to our site for the best ways to get involved, whether it be donating to the right charities or volunteering at a local site.

Design

XML Schema

```
1 <?xml version="1.0" ?>
 <!-- XSD for World Crises database -->
< xsd:sequence>
            9
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       36
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       </xsd:keyref>
<xsd:keyref>
<xsd:keyref name="PersonKeyRef.Org" refer="PersonKey">
<xsd:selector xpath="Organization/People/Person" /
<xsd:field xpath="@ID" />
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47
       </r></re></re></re>
       <xsd:key name="OrgKey">
          48
49
50
    51
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54
55
56
57
    <!-- Crisis Data Type --> <!-- Required: Name, {\bf ID} (attributes), People, Orgs (each with {\bf ID} attributes
    58
59
60
61
             <xsd:complexType>
62
63
                < xsd:sequence>
                  </xsd:sequence>
64
          </pre
65
66
67
             <xsd:complexType>
<xsd:sequence>
68
69
70
                  maxOcc
</xsd:sequence>
</xsd:complexType>
</xsd:element>
71
72
73
74
          <xsd:element name="Kind" type="xsd:token" minOccurs="0" maxOccurs="</pre>
75
```

```
<xsd:element name="Date" type="xsd:date" minOccurs="0" maxOccurs="1</pre>
76
               <xsd:element name="Time" type="xsd:time" minOccurs="0" maxOccurs="1</pre>
               <xsd:element name="Locations" type="ListType" minOccurs="0"</pre>
78
                            name="HumanImpact" type="ListType" minOccurs="0"
name="HumanImpact" type="ListType" minOccurs="0"
               maxOccurs="1
<xsd:element name
maxOccurs="1
               maxOccurs="1" /> <xsd:element name="EconomicImpact" type="ListType" minOccurs="0"
80
               maxOccurs="1" />
<xsd:element name="ResourcesNeeded" type="ListType" minOccurs="0"
               maxOccurs="1" />
<xsd:element name="WaysToHelp" type="ListType" minOccurs="0"
maxOccurs="1" />
<xsd:element name="Common" type="CommonType" minOccurs="0"
maxOccurs="1" />
<xsd:element name="Common" type="CommonType" minOccurs="0"
82
83
           84
85
86
87
88
       </xsd:complexType>
89
90
       <!-- Person Data Type --> <!-- Required: Name, {\bf ID} (attributes), Crises, Orgs (each with {\bf ID} attributes
91
       <xsd:complexType name="PersonType">
93
           94
95
96
                   <xsd:complexType>
                       <xsd:sequence>
                           <:sequence>
<xsd:element name="Crisis" type="CrisisWithID"</pre>
97
                   minOccurs="1" maxOccurs="unbounded"
</xsd:sequence>
</xsd:complexType>
98
99
               </r></re></re></re>
100
               101
103
                   104
105
106
107
               </ri>
109
               <xsd:element name="Kind" type="xsd:token" minOccurs="0" maxOccurs="</pre>
               <xsd:element name="Location" type="xsd:token" minOccurs="0"
maxOccurs="1" />
110
               111
           112
115
116
       </r>
       <!-- Person Data Type -->
<!-- Required: Name, ID (attributes), Crises, People (each with ID attributes) -->
<xsd:complexType name="OrgType">
118
119
120
           < xsd:sequence>
121
               <xsd:element name="Crises" minOccurs="0" maxOccurs="1">
122
                   123
                          125
                   </xsd:sequence>
</xsd:complexType>
126
                </ri>
128
               129
                       <xsd:sequence>
131
                       132
133
                   </r>
134
135
               </r></re></re></re>
               <xsd:element name="Kind" type="xsd:token" minOccurs="0" maxOccurs="</pre>
               138
139
               = 1 />
<xsd:element name="ContactInfo" type="ListType" minOccurs="0"
140
               maxOccurs="1" /> <xsd:element name="Common" type="CommonType" minOccurs="0"
           maxOccurs="1" /> <xsd:any minOccurs="0" /> </xsd:sequence> <xsd:attribute name="ID" type="OrgIDType" use="required"/>
142
143
144
```

```
<xsd:attribute name="Name" type="xsd:token" use="required" />
145
         </r></re>
146
         <!-- CommonType contains elements common to crises, people and organizations. Each of these elements is a list. --> <xsd:complexType name="CommonType">
148
149
              151
                   <xsd:element name="Citations" type="ListType" minOccurs="0"
    maxOccurs="1" />
<xsd:element name="ExternalLinks" type="ListType" minOccurs="0"
    maxOccurs="1" />
<xsd:element name="Images" type="ListType" minOccurs="0" maxOccurs=
    "1" />
<xsd:element name="Videos" type="ListType" minOccurs="0" maxOccurs=
    "1" />
152
153
154
                   "1" /> <xsd:element name="Maps" type="ListType" minOccurs="0" maxOccurs="1
155
                   <xsd:element name="Feeds" type="ListType" minOccurs="0" maxOccurs="</pre>
156
                   1" />
<xsd:element name="Summary" type="xsd:token" minOccurs="0"
maxOccurs="1" />
157
158
         </xsd:sequence>
</xsd:complexType>
159
160
161
         <!-- ListType is a list of tokens. Each token can have an optional hyperlink (href attribute) and/or link for embedded object (embed
                attribute)
         This is a generic type that can accommodate all types of lists (images, videos, citations, text, etc.) See example XML for usage --> <xsd:complexType name="ListType">
162
163
              164
165
166
167
168
169
170
171
               </r></re></re>
172
173
174
175
         </r></re>
         176
177
178
179
         180
\frac{182}{183}
         184
185
186
187
         <!-- All ID Types go here -->
<xsd:simpleType name="CrisisIDType">
<xsd:restriction base="IDType">
<xsd:restriction base="CRI_[A-Z]{6}" />
</xsd:restriction>
</xsd:simpleType>
188
189
190
191
192
194
         195
196
197
198
199
         </xsd:simpleType>
200
201
         202
203
205
206
         207
209
210
211 </xsd:simpleType>
212 </xsd:schema>
```

Implementation

Import

Export

Testing

unittest

Other