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.

XML Schema

Our class has been divided into separate groups for this project, but most groups have agreed upon a shared schema for XML. The schema as of the latest version is printed here, but the latest version can be found with this link.

Updated schema on Github

```
1 <?xml version="1.0" ?>
3 <!-- XSD for World Crises database -->
< x s d : s e q u e n c e >
9
10
11
13
14
         15
16
17
\begin{array}{c} 18\\ 19\\ 20\\ 22\\ 23\\ 24\\ 25\\ 26\\ 27\\ 28\\ 30\\ 31\\ 32\\ 43\\ 35\\ 36\\ 39\\ 40\\ 41\\ 42\\ 43\\ 445\\ 46\\ 47\\ 449\\ 50\\ 51\\ 55\\ 55\\ 65\\ 7\end{array}
         </r></re></re></re>
         <!-- Crisis Data Type --> <!-- Required: Name, {\bf ID} (attributes), People, Orgs (each with {\bf ID} attributes
      <xsd:complexType name="CrisisType">
58
         <xsd:sequence>
  <xsd:element name="People" minOccurs="0" maxOccurs="1">
59
60
61
                <xsd:complexType>
62
                   < xsd:sequence>
63
                      <xsd:element name="Person" type="PersonWithID"
    minOccurs="1" maxOccurs="unbounded" />
                   </r></re></re>
                </xsd:complexType>
65
66
67
68
            </xsd:complexType>
</xsd:element>
<xsd:clement name="Organizations" minOccurs="0" maxOccurs="1">
<xsd:complexType>
                   < xsd:sequence>
                       <xsd:element name="Org" type="OrgWithID" minOccurs="1"</pre>
```

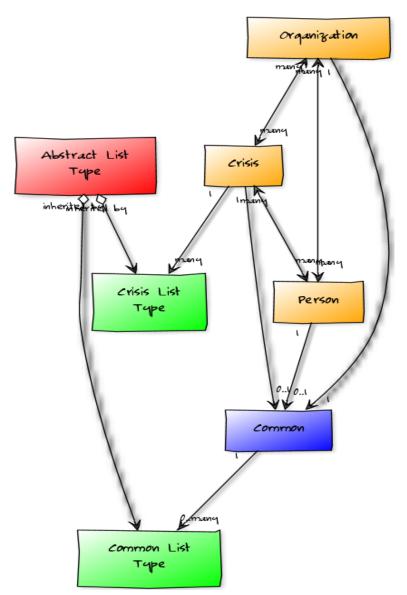
```
maxOccurs="unbounded" />
                                      </r></re></re></re></re>
 72
73
74
                              </r></re></re></re>
 75
                              <xsd:element name="Kind" type="xsd:token" minOccurs="0" maxOccurs="</pre>
                              <xsd:element name="Date" type="xsd:date" minOccurs="0" maxOccurs="1</pre>
 76
 77
                              <xsd:element name="Time" type="xsd:time" minOccurs="0" maxOccurs="1</pre>
                              <xsd:element name="Locations" type="ListType" minOccurs="0"</pre>
 78
                              maxOccurs="1" />
<xsd:element name="ResourcesNeeded" type="ListType" minOccurs="0"
maxOccurs="1" />
<xsd:element name="ResourcesNeeded" type="ListType" minOccurs="0"
 80
 81
                              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" maxOccurs="1" /> <xsd:element name="CommonType" minOccurs="0" maxOccurs="0" /> <xsd:element name="CommonType" minOccurs="0" maxOccurs="0" maxOccurs="0" /> <xsd:element name="CommonType" minOccurs="0" maxOccurs="0" minOccurs="0" 
 82
                      84
 86
 87
 88
               </xsd:complexType>
 89
90
              <!-- Person Data Type --> <!-- Required: Name, {\bf ID} (attributes), Crises, Orgs (each with {\bf ID} attributes
 91
 92
93
94
              95
96
97
                                      98
100
                              <xsd:element name="Organizations" minOccurs="0" maxOccurs="1">
101
102
103
                                      104
105
106
107
108
109
                              <xsd:element name="Kind" type="xsd:token" minOccurs="0" maxOccurs="</pre>
                              <xsd:element name="Location" type="xsd:token" minOccurs="0"</pre>
110
                              maxOccurs="1" />
<xsd:element name="Common" type="CommonType" minOccurs="0"
maxOccurs="1" />
111
                      112
113
115
              </r></re>
116
117
              <!-- Person Data Type -->
<!-- Required: Name, ID (attributes), Crises, People (each with ID attributes) -->
119
              120
121
                              <xsd:element name="Crises" minOccurs="0" maxOccurs="1">
122
                                      123
125
                                      </ri></ri></ri></ri></ri></ri></ri></ri></ri></ri></ri></ri></ri></l></l></l></l></l><
126
                               </xsd:element>
128
                               <xsd:element name="People" minOccurs="0" maxOccurs="1">
129
                                      130
                                      131
132
\frac{133}{134}
                              </r></re>/xsd;element>
135
136
                              <xsd:element name="Kind" type="xsd:token" minOccurs="0" maxOccurs="</pre>
                              1" /> <xsd:element name="Location" type="xsd:token" minOccurs="0"
138
                              maxOccurs="1" />
<xsd:element name="History" type="ListType" minOccurs="0" maxOccurs
="1" />
139
```

```
<xsd:element name="ContactInfo" type="ListType" minOccurs="0"</pre>
140
                   maxOccurs="1" /> <xsd:element name="Common" type="CommonType" minOccurs="0" maxOccurs="1" />
141
              142
143
145
146
         </r></re>
147
148
         149
151
                   maxOccurs="1" />
<xsd:element name="ExternalLinks" type="ListType" minOccurs="0"
maxOccurs="1" />
<xsd:element name="Images" type="ListType" minOccurs="0" maxOccurs=
152
                   "1" /> <xsd:element name="Videos" type="ListType" minOccurs="0" maxOccurs=
154
                   "1" /> <xsd:element name="Maps" type="ListType" minOccurs="0" maxOccurs="1
155
156
                   <xsd:element name="Feeds" type="ListType" minOccurs="0" maxOccurs="</pre>
                   1" />
<xsd:element name="Summary" type="xsd:token" minOccurs="0"
maxOccurs="1" />
157
         </xsd:sequence>
</xsd:complexType>
158
159
160
         <!-- ListType is a list of tokens. Each token can have an optional hyperlink (href attribute) and/or link for embedded object (embed attribute).
161
         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
              < x s d : s e q u e n c e >
                   <xsd:element name="li" minOccurs="1" maxOccurs="unbounded">
165
                   166
168
169
170
171
172
              </r></re></re>
173
174
175
176
         </r></re>
         177
178
179
         180
181
182
183
         184
185
187
         <!-- All ID Types go here -->
<xsd:simpleType name="CrisisIDType">
<xsd:restriction base="IDType">
<xsd:restriction base="IDType">
</xsd:restriction>
</xsd:restriction>
188
189
190
191
192
193
194
         </r>
         <xsd:simpleType name="PersonIDType">
  <xsd:restriction base="IDType">
   <xsd:restriction base="IDType">
   </xsd:restriction>

195
196
197
198
199
         </r></re></re>
200
         <xsd:simpleType name="OrgIDType">
  <xsd:restriction base="IDType">
        <xsd:pattern value="ORG_[A-Z]{6}" />
        //xsd:restriction>
202
203
         </sd:pattern v
</sd:restriction>
</sd:simpleType>
\frac{204}{205}
206
         207
210
211 </xsd:simpleType>
212 </xsd:schema>
```

IMPLEMENTATION

Data Model



This is a diagram of our data model

Please don't be footnotesize

Import

Export

TESTING

unittest

OTHER