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<?xml version="1.0" encoding="UTF-8"?>
<!-- voPack schema, by Juan de Dios Santander Vela, IAA-CSIC -->
<!-- Ideas for voPach schema

voPack as a list of packUnits; packUnit is an abstract type
packUnits: fits, votable, folder, compressedFile, voxml, non-voxml, other
voxml types: sed, characterisation, stc, stcoords
-->
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://www.w3.org/2001/XMLSchema" ></xs:import>
  <xs:complexType name="anyText" mixed="true">
    <xs:sequence>
      <xs:any minOccurs="0" maxOccurs="unbounded" processContents="skip"/>
    </xs:sequence>
  </xs:complexType>

  <xs:simpleType name="packUnitType">
    <xs:restriction base="xs:NMTOKEN">
      <xs:enumeration value="votable"/>
      <xs:enumeration value="fits"/>
      <xs:enumeration value="otherXML"/>
      <xs:enumeration value="otherNonXML"/>
      <xs:enumeration value="vopack"/>
      <xs:enumeration value="compressedFolder"/>
      <xs:enumeration value="folder"/>
    </xs:restriction>
  </xs:simpleType>

  <!-- voPack is the root element of the schema -->
  <xs:element name="voPack">
    <xs:complexType>
      <xs:sequence>
        <xs:element ref="description" minOccurs="1" />
        <xs:element ref="originatingQuery" minOccurs="1" maxOccurs="1"/>
        <xs:element ref="packUnit" minOccurs="1" maxOccurs="unbounded"/></xs:sequence>
        <xs:attribute name="ID" type="xs:ID"/>
        <xs:attribute name="version" use="required">
          <xs:simpleType>
            <xs:restriction base="xs:NMTOKEN">
              <xs:enumeration value="0.1"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:attribute>
      </xs:complexType>
    </xs:element>

    <xs:element name="description">
      <xs:complexType mixed="true">
        <xs:complexContent>
          <xs:extension base="anyText">
            <xs:attribute name="ID" type="xs:ID" />
            <xs:attribute name="value" type="xs:string" use="required" />
          </xs:extension>
        </xs:complexContent>
      </xs:complexType>
    </xs:element>

    <xs:element name="originatingQuery">
      <xs:complexType>
        <xs:attribute name="value" type="xs:string" use="required"/>
        <xs:attribute name="URL" type="xs:anyURI" use="required"/>
      </xs:complexType>
    </xs:element>

    <xs:element name="characterisation">
      <xs:complexType>
        <!-- To be defined; should follow the characterisation schema -->
        <xs:sequence>
          <!-- Sequence of axis characterisations for the given pack unit -->
        </xs:sequence>
      </xs:complexType>
    </xs:element>

    <xs:element name="packUnit">
      <xs:complexType>
        <xs:sequence>
          <xs:element ref="description" minOccurs="1" />
          <xs:element ref="packUnit" minOccurs="0" maxOccurs="unbounded"/>
          <xs:element ref="characterisation" minOccurs="1" maxOccurs="1"/>
        </xs:sequence>
        <xs:attribute name="type" type="packUnitType" use="required"/>
        <xs:attribute name="URI" type="xs:anyURI" use="required" />
        <xs:attribute name="informationPath" type="xs:string" use="optional"/></xs:attribute>
        <!-- The URI provides information either for the local file system, or remotely -->
      </xs:complexType>
    </xs:element>
  </xs:schema>

```