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<?xml version="1.0" encoding="utf-8"?>
<xs:schema
  targetNamespace="http://panopto.com/PanoptoSession/v1"
  elementFormDefault="qualified"
  xmlns="http://tempuri.org/XMLSchema.xsd"
  xmlns:mstns="http://tempuri.org/XMLSchema.xsd"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  version="1.0">

  <!-- Describes a collection of playable content on a single timeline for uploading to a Panopto server. -->
  <xs:element name="PanoptoSession">
    <xs:complexType>
      <xs:all>
        <!-- The name of the session. -->
        <xs:element type="xs:string" name="Title"/>

        <!-- A paragraph describing the session contents in detail. -->
        <xs:element type="xs:string" name="Description"/>

        <!-- The date the session was created. -->
        <xs:element type="xs:dateTime" name="Date"/>

        <!-- Video streams in this session. -->
        <xs:element name="Videos">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="Video" minOccurs="0" maxOccurs="unbounded">
                <xs:complexType>
                  <xs:all>

                    <!-- The time at which this video starts relative to session start. Determines its position
on the timeline. -->
                    <xs:element type="xs:duration" name="Start"/>

                    <!-- The filename of the video. Must match exactly to a video filename uploaded in the same
directory as this XML. -->
                    <xs:element name="Filename">
                      <xs:complexType>
                        <xs:simpleContent>
                          <xs:extension base="xs:string">

                            <!-- For convenience, not used by the server, a full path to the file on disk. -->
                            <xs:attribute type="xs:string" name="LocalFilename" use="optional"/>
                          </xs:extension>
                        </xs:simpleContent>
                      </xs:complexType>
                    </xs:element>

                    <!-- A collection of ranges of video to omit from the final playable session. -->
                    <xs:element name="Cuts">
                      <xs:complexType>
                        <xs:sequence>
                          <xs:element name="Cut" minOccurs="0" maxOccurs="unbounded">
                            <xs:complexType>
                              <xs:all>
                                <!-- The start time of the range to cut relative to the video start. -->
                                <xs:element type="xs:duration" name="Start"/>

                                <!-- The duration of the range to cut. -->
                                <xs:element type="xs:duration" name="Duration"/>
                              </xs:all>
                            </xs:complexType>
                          </xs:element>
                        </xs:sequence>
                      </xs:complexType>
                    </xs:element>

                    <!-- A collection of timed entries in the session for navigation and search discovery. -->
                    <xs:element name="TableOfContents">

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<xs:complexType>
  <xs:sequence>
    <xs:element name="Entry" minOccurs="0" maxOccurs="unbounded">
      <xs:complexType>
        <xs:all>

          <!-- A title for the table of contents entry to be displayed in a list. -->
          <xs:element type="xs:string" name="Title"/>

          <!-- A paragraph of additional text to include with this table of contents
entry. -->

          <xs:element type="xs:string" name="Description" minOccurs="0"/>

          <!-- A url to associate with this entry. -->
          <xs:element type="xs:anyURI" name="Url" minOccurs="0"/>

          <!-- The time relative to the start of the video where this entry occurs. -->
          <xs:element type="xs:duration" name="Time"/>
        </xs:all>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
</xs:element>

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<!-- Describes where the video should be positioned for viewers. -->
<xs:element name="Type">
  <xs:simpleType>
    <xs:restriction base="xs:string">

      <!-- Positions the video to the left side of the viewer in a smaller window. -->
      <xs:enumeration value="Primary"/>

      <!-- Positions the video to the right side of the viewer in a larger window. -->
      <xs:enumeration value="Secondary"/>

      <!-- An audio only recording. -->
      <xs:enumeration value="Audio"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>

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<!-- Transcripts of this stream for closed captioning and search. Must refer to a video
file uploaded with this XML. -->
<xs:element name="Transcripts">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="Transcript" minOccurs="0" maxOccurs="unbounded">
        <xs:complexType>
          <xs:all>

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          <!-- The filename of the transcript. Must match exactly to a transcript
filename uploaded in the same directory as this XML. -->
          <xs:element name="Filename">
            <xs:complexType>
              <xs:simpleContent>
                <xs:extension base="xs:string">
                  <!-- For convenience, not used by the server, a full path to the file
on disk. -->

                  <xs:attribute type="xs:string" name="LocalFilename" use="optional"/>
                </xs:extension>
              </xs:simpleContent>
            </xs:complexType>
          </xs:element>

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          <!-- The language the transcript is in. Allows for multiple transcripts in
different languages. -->
          <xs:element type="xs:string" name="LCID"/>

          <!-- Describe which service the captions came from. -->

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        <xs:element type="xs:string" name="Source" minOccurs="0"/>
        <!-- Controls whether the captions can be displayed in closed captioning or if
it is only suitable for search. -->
        <xs:element type="xs:boolean" name="Visible" default="true" minOccurs="0"/>
    </xs:all>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:all>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>

<!-- Slide shows presented in this session. -->
<xs:element name="Presentations">
    <xs:complexType>
        <xs:sequence>
            <xs:element name="Presentation" minOccurs="0" maxOccurs="unbounded">
                <xs:complexType>
                    <xs:all>

                        <!-- The time at which this presentation starts relative to session start. Determines its
position on the timeline. -->
                        <xs:element type="xs:duration" name="Start"/>

                        <!-- The filename of the presentation. Must match exactly to a presentation filename
uploaded in the same directory as this XML. -->
                        <xs:element name="Filename">
                            <xs:complexType>
                                <xs:simpleContent>
                                    <xs:extension base="xs:string">
                                        <!-- For convenience, not used by the server, a full path to the file on disk. -->
                                        <xs:attribute type="xs:string" name="LocalFilename" use="optional"/>
                                    </xs:extension>
                                </xs:simpleContent>
                            </xs:complexType>
                        </xs:element>

                        <!-- A collection of transitions to slides on the session timeline. -->
                        <xs:element name="SlideChanges">
                            <xs:complexType>
                                <xs:sequence>
                                    <xs:element name="SlideChange" minOccurs="0" maxOccurs="unbounded">
                                        <xs:complexType>
                                            <xs:all>
                                                <!-- A title for the slide change to be displayed in the table of contents
list. -->
                                                <xs:element type="xs:string" name="Title"/>

                                                <!-- A paragraph of additional text to include with this slide. Usually the
full slide text. -->
                                                <xs:element type="xs:string" name="Description" minOccurs="0"/>

                                                <!-- A url to associate with this entry. -->
                                                <xs:element type="xs:anyURI" name="Url" minOccurs="0"/>

                                                <!-- The time relative to the start of the presentation where this slide change
occurs. -->
                                                <xs:element type="xs:duration" name="Time"/>

                                                <!-- The 1-based slide index in the presentation of the slide shown by this
slide change. -->
                                                <xs:element type="xs:integer" name="SlideNumber"/>
                                            </xs:all>
                                        </xs:complexType>
                                    </xs:sequence>
                                </xs:complexType>
                            </xs:element>
                        </xs:sequence>
                    </xs:complexType>
                </xs:element>
            </xs:sequence>
        </xs:complexType>
    </xs:element>

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        </xs:element>
    </xs:sequence>
</xs:complexType>
</xs:element>
</xs:all>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>

<!-- Static images shown in this session. -->
<xs:element name="Images" minOccurs="0">
    <xs:complexType>
        <xs:sequence>
            <xs:element name="Image" minOccurs="0" maxOccurs="unbounded">
                <xs:complexType>
                    <xs:all>

                        <!-- The filename of the image. Must match exactly to an image filename uploaded in the
same directory as this XML. -->
                        <xs:element name="Filename">
                            <xs:complexType>
                                <xs:simpleContent>
                                    <xs:extension base="xs:string">

                                        <!-- For convenience, not used by the server, a full path to the file on disk. -->
                                        <xs:attribute type="xs:string" name="LocalFilename" use="optional"/>
                                    </xs:extension>
                                </xs:simpleContent>
                            </xs:complexType>
                        </xs:element>

                        <!-- A title for the image in the table of contents list. -->
                        <xs:element type="xs:string" name="Title"/>

                        <!-- A paragraph of additional text to include with this image. -->
                        <xs:element type="xs:string" name="Description" minOccurs="0"/>

                        <!-- A url to associate with this entry. -->
                        <xs:element type="xs:anyURI" name="Url" minOccurs="0"/>

                        <!-- The time relative to the start of the session where this image should be shown. -->
                        <xs:element type="xs:duration" name="Time"/>
                    </xs:all>
                </xs:complexType>
            </xs:element>
        </xs:sequence>
    </xs:complexType>
</xs:element>

<!-- A collection of ranges of the entire session to omit from the final playable output. -->
<xs:element name="Cuts">
    <xs:complexType>
        <xs:sequence>
            <xs:element name="Cut" minOccurs="0" maxOccurs="unbounded">
                <xs:complexType>
                    <xs:all>
                        <!-- The start time of the range to cut relative to the session start. -->
                        <xs:element type="xs:duration" name="Start"/>

                        <!-- The duration of the range to cut. -->
                        <xs:element type="xs:duration" name="Duration"/>
                    </xs:all>
                </xs:complexType>
            </xs:element>
        </xs:sequence>
    </xs:complexType>
</xs:element>

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<!-- A collection of strings associated with the session for categorization purposes. -->
<xs:element name="Tags" minOccurs="0">
  <xs:complexType>
    <xs:sequence>
      <xs:element type="xs:string" name="Tag" minOccurs="0" maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<!-- A collection of name and value pairs associated with the session for extensibility purposes. -->
<xs:element name="Extensions" minOccurs="0">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="Extension" minOccurs="0" maxOccurs="unbounded">
        <xs:complexType>
          <xs:all>
            <xs:element type="xs:string" name="Name"/>
            <xs:element type="xs:string" name="Value"/>
          </xs:all>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<!-- Any additional file attachments to include with this session. -->
<xs:element name="Attachments" minOccurs="0">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="Attachment" minOccurs="0" maxOccurs="unbounded">
        <xs:complexType>
          <xs:all>

            <!-- The filename of the attachment. Must match exactly to a attachment filename uploaded
in the same directory as this XML. -->
            <xs:element name="Filename">
              <xs:complexType>
                <xs:simpleContent>
                  <xs:extension base="xs:string">
                    <!-- For convenience, not used by the server, a full path to the file on disk. -->
                    <xs:attribute type="xs:string" name="LocalFilename" use="optional"/>
                  </xs:extension>
                </xs:simpleContent>
              </xs:complexType>
            </xs:element>

            <!-- The MIME type of this file. -->
            <xs:element type="xs:string" name="MimeType"/>
          </xs:all>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<!-- A definition for the globally unique identifier type Panopto uses. -->
<xs:simpleType name="guid">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      The representation of a GUID, generally the id of an element.
    </xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:pattern value="\{[a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}\}" />
  </xs:restriction>
</xs:simpleType>
</xs:schema>

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