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<?xml version="1.0" encoding="UTF-8"?>
<!-- edited by Thomas Wason -->
<xsd:schema targetNamespace="http://www.imsglobal.org/xsd/imsmd_rootvlp2p1"
  xmlns:xml="http://www.w3.org/XML/1998/namespace"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://www.imsglobal.org/xsd/imsmd_rootvlp2p1"
  elementFormDefault="qualified"
  version="1.2:1.1 IMS:MD1.2">

  <xsd:import namespace="http://www.w3.org/XML/1998/namespace"
    schemaLocation="ims_xml.xsd"/>

  <!-- ***** -->
  <!-- ** Change History ** -->
  <!-- ***** -->
  <xsd:annotation>
    <xsd:documentation>2001-04-26 T.D.Wason. IMS meta-data 1.2 XML-Schema.
      </xsd:documentation>
    <xsd:documentation>2001-06-07 S.E.Thropp. Changed the multiplicity on all
elements to match the      </xsd:documentation>
    <xsd:documentation>Final 1.2 Binding Specification.
      </xsd:documentation>
    <xsd:documentation>Changed all elements that use the langstringType to a
multiplicity of 1 or more      </xsd:documentation>
    <xsd:documentation>Changed centity in the contribute element to have a
multiplicity of 0 or more.      </xsd:documentation>
    <xsd:documentation>Changed the requirement element to have a multiplicity of 0 or
more.      </xsd:documentation>
    <xsd:documentation> 2001-07-25 Schawn Thropp. Updates to bring the XSD up to
speed with the W3C      </xsd:documentation>
    <xsd:documentation> XML Schema Recommendation. The following changes were made:
Change the      </xsd:documentation>
    <xsd:documentation> namespace to reference the 5/2/2001 W3C XML Schema
Recommendation,the base      </xsd:documentation>
    <xsd:documentation> type for the durtimeType, simpleType, was changed from
timeDuration to duration.      </xsd:documentation>
    <xsd:documentation> Any attribute declarations that have use="default" had to
change to use="optional" </xsd:documentation>
    <xsd:documentation> - attr.type. Any attribute declarations that have value
="somevalue" had to change </xsd:documentation>
    <xsd:documentation> to default = "somevalue" - attr.type (URI)
      </xsd:documentation>
    <xsd:documentation> 2001-09-04 Schawn Thropp
      </xsd:documentation>
    <xsd:documentation> Changed the targetNamespace and namespace of schema to
reflect version change      </xsd:documentation>
  </xsd:annotation>

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<!-- ***** -->
<!-- ** Attribute Declaration ** -->
<!-- ***** -->

<xsd:attributeGroup name="attr.type">
  <xsd:attribute name="type" use="optional" default="URI">
    <xsd:simpleType>
      <xsd:restriction base="xsd:string">
        <xsd:enumeration value="URI"/>
        <xsd:enumeration value="TEXT"/>
      </xsd:restriction>
    </xsd:simpleType>
  </xsd:attribute>
</xsd:attributeGroup>

<xsd:group name="grp.any">
  <xsd:annotation>
    <xsd:documentation>Any namespaced element from any namespace may be used for
an &quot;any&quot; element. The namespace for the imported element must be defined in
the instance, and the schema must be imported. </xsd:documentation>
  </xsd:annotation>
  <xsd:sequence>
    <xsd:any namespace="##any" processContents="strict" minOccurs="0"
maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:group>

<!-- ***** -->
<!-- ** Element Declaration ** -->
<!-- ***** -->

<xsd:element name="aggregationlevel" type="aggregationlevelType"/>
<xsd:element name="annotation" type="annotationType"/>
<xsd:element name="catalogentry" type="catalogentryType"/>
<xsd:element name="catalog" type="catalogType"/>
<xsd:element name="centity" type="centityType"/>
<xsd:element name="classification" type="classificationType"/>
<xsd:element name="context" type="contextType"/>
<xsd:element name="contribute" type="contributeType"/>
<xsd:element name="copyrightandotherrestrictions"
type="copyrightandotherrestrictionsType"/>
<xsd:element name="cost" type="costType"/>
<xsd:element name="coverage" type="coverageType"/>
<xsd:element name="date" type="dateType"/>
<xsd:element name="datetime" type="datetimeType"/>
<xsd:element name="description" type="descriptionType"/>
<xsd:element name="difficulty" type="difficultyType"/>

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<xsd:element name="educational" type="educationalType"/>
<xsd:element name="entry" type="entryType"/>
<xsd:element name="format" type="formatType"/>
<xsd:element name="general" type="generalType"/>
<xsd:element name="identifier" type="xsd:string"/>
<xsd:element name="intendedenduserrole" type="intendedenduserroleType"/>
<xsd:element name="interactivitylevel" type="interactivitylevelType"/>
<xsd:element name="interactivitytype" type="interactivitytypeType"/>
<xsd:element name="keyword" type="keywordType"/>
<xsd:element name="kind" type="kindType"/>
<xsd:element name="langstring" type="langstringType"/>
<xsd:element name="language" type="xsd:string"/>
<xsd:element name="learningresourcetype" type="learningresourcetypeType"/>
<xsd:element name="lifecycle" type="lifecycleType"/>
<xsd:element name="location" type="locationType"/>
<xsd:element name="lom" type="lomType"/>
<xsd:element name="maximumversion" type="minimumversionType"/>
<xsd:element name="metadatascheme" type="metadataschemeType"/>
<xsd:element name="metametadata" type="metametadataType"/>
<xsd:element name="minimumversion" type="maximumversionType"/>
<xsd:element name="name" type="nameType"/>
<xsd:element name="purpose" type="purposeType"/>
<xsd:element name="relation" type="relationType"/>
<xsd:element name="requirement" type="requirementType"/>
<xsd:element name="resource" type="resourceType"/>
<xsd:element name="rights" type="rightsType"/>
<xsd:element name="role" type="roleType"/>
<xsd:element name="semanticdensity" type="semanticdensityType"/>
<xsd:element name="size" type="sizeType"/>
<xsd:element name="source" type="sourceType"/>
<xsd:element name="status" type="statusType"/>
<xsd:element name="structure" type="structureType"/>
<xsd:element name="taxon" type="taxonType"/>
<xsd:element name="taxonpath" type="taxonpathType"/>
<xsd:element name="technical" type="technicalType"/>
<xsd:element name="title" type="titleType"/>
<xsd:element name="type" type="typeType"/>
<xsd:element name="typicalagerange" type="typicalagerangeType"/>
<xsd:element name="typicallearningtime" type="typicallearningtimeType"/>
<xsd:element name="value" type="valueType"/>
<xsd:element name="person" type="personType"/>
<xsd:element name="vcard" type="xsd:string"/>
<xsd:element name="version" type="versionType"/>
<xsd:element name="installationremarks" type="installationremarksType"/>
<xsd:element name="otherplatformrequirements" type="otherplatformrequirementsType"/>
<xsd:element name="duration" type="durationType"/>
<xsd:element name="id" type="idType"/>

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<!-- ***** -->
<!-- ** Complex Types ** -->
<!-- ***** -->

<xsd:complexType name="aggregationlevelType">
  <xsd:sequence>
    <xsd:element ref="source"/>
    <xsd:element ref="value"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="annotationType" mixed="true">
  <xsd:sequence>
    <xsd:element ref="person" minOccurs="0"/>
    <xsd:element ref="date" minOccurs="0"/>
    <xsd:element ref="description" minOccurs="0"/>
    <xsd:group ref="grp.any"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="catalogentryType" mixed="true">
  <xsd:sequence>
    <xsd:element ref="catalog"/>
    <xsd:element ref="entry"/>
    <xsd:group ref="grp.any"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="centityType">
  <xsd:sequence>
    <xsd:element ref="vcard"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="classificationType" mixed="true">
  <xsd:sequence>
    <xsd:element ref="purpose" minOccurs="0"/>
    <xsd:element ref="taxonpath" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element ref="description" minOccurs="0"/>
    <xsd:element ref="keyword" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:group ref="grp.any"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="contextType">
  <xsd:sequence>
    <xsd:element ref="source"/>
    <xsd:element ref="value"/>
  </xsd:sequence>
</xsd:complexType>

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    </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="contributeType" mixed="true">
  <xsd:sequence>
    <xsd:element ref="role"/>
    <xsd:element ref="centity" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element ref="date" minOccurs="0"/>
    <xsd:group ref="grp.any"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="copyrightandotherrestrictionsType">
  <xsd:sequence>
    <xsd:element ref="source"/>
    <xsd:element ref="value"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="costType">
  <xsd:sequence>
    <xsd:element ref="source"/>
    <xsd:element ref="value"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="coverageType">
  <xsd:sequence>
    <xsd:element ref="langstring" minOccurs="1" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="dateType">
  <xsd:sequence>
    <xsd:element ref="datetime" minOccurs="0"/>
    <xsd:element ref="description" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="descriptionType">
  <xsd:sequence>
    <xsd:element ref="langstring" minOccurs="1" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="difficultyType">
  <xsd:sequence>
    <xsd:element ref="source"/>

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        <xsd:element ref="value"/>
    </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="durationType">
    <xsd:sequence>
        <xsd:element ref="datetime" minOccurs="0"/>
        <xsd:element ref="description" minOccurs="0"/>
    </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="educationalType" mixed="true">
    <xsd:sequence>
        <xsd:element ref="interactivitytype" minOccurs="0"/>
        <xsd:element ref="learningresourcetype" minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element ref="interactivitylevel" minOccurs="0"/>
        <xsd:element ref="semanticdensity" minOccurs="0"/>
        <xsd:element ref="intendedenduserrole" minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element ref="context" minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element ref="typicalagerange" minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element ref="difficulty" minOccurs="0"/>
        <xsd:element ref="typicalllearningtime" minOccurs="0"/>
        <xsd:element ref="description" minOccurs="0"/>
        <xsd:element ref="language" minOccurs="0" maxOccurs="unbounded"/>
        <xsd:group ref="grp.any"/>
    </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="entryType">
    <xsd:sequence>
        <xsd:element ref="langstring" minOccurs="1" maxOccurs="unbounded"/>
    </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="generalType" mixed="true">
    <xsd:sequence>
        <xsd:element ref="identifier" minOccurs="0"/>
        <xsd:element ref="title" minOccurs="0"/>
        <xsd:element ref="catalogentry" minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element ref="language" minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element ref="description" minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element ref="keyword" minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element ref="coverage" minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element ref="structure" minOccurs="0"/>
        <xsd:element ref="aggregationlevel" minOccurs="0"/>
        <xsd:group ref="grp.any"/>
    </xsd:sequence>
</xsd:complexType>

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<xsd:complexType name="installationremarksType">
  <xsd:sequence>
    <xsd:element ref="langstring" minOccurs="1" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="intendedenduserroleType">
  <xsd:sequence>
    <xsd:element ref="source"/>
    <xsd:element ref="value"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="interactivitylevelType">
  <xsd:sequence>
    <xsd:element ref="source"/>
    <xsd:element ref="value"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="interactivitytypeType">
  <xsd:sequence>
    <xsd:element ref="source"/>
    <xsd:element ref="value"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="keywordType">
  <xsd:sequence>
    <xsd:element ref="langstring" minOccurs="1" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="kindType">
  <xsd:sequence>
    <xsd:element ref="source"/>
    <xsd:element ref="value"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="langstringType">
  <xsd:simpleContent>
    <xsd:extension base="xsd:string">
      <xsd:attribute ref="xml:lang"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>

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<xsd:complexType name="learningresourcetypeType">
  <xsd:sequence>
    <xsd:element ref="source"/>
    <xsd:element ref="value"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="lifecycleType" mixed="true">
  <xsd:sequence>
    <xsd:element ref="version" minOccurs="0"/>
    <xsd:element ref="status" minOccurs="0"/>
    <xsd:element ref="contribute" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:group ref="grp.any"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="locationType">
  <xsd:simpleContent>
    <xsd:extension base="xsd:string">
      <xsd:attributeGroup ref="attr.type"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>

<xsd:complexType name="lomType">
  <xsd:sequence>
    <xsd:element ref="general" minOccurs="0"/>
    <xsd:element ref="lifecycle" minOccurs="0"/>
    <xsd:element ref="metametadata" minOccurs="0"/>
    <xsd:element ref="technical" minOccurs="0"/>
    <xsd:element ref="educational" minOccurs="0"/>
    <xsd:element ref="rights" minOccurs="0"/>
    <xsd:element ref="relation" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element ref="annotation" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element ref="classification" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="metametadataType" mixed="true">
  <xsd:sequence>
    <xsd:element ref="identifier" minOccurs="0"/>
    <xsd:element ref="catalogentry" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element ref="contribute" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element ref="metadatascheme" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element ref="language" minOccurs="0"/>
    <xsd:group ref="grp.any"/>
  </xsd:sequence>

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</xsd:complexType>

<xsd:complexType name="nameType">
  <xsd:sequence>
    <xsd:element ref="source"/>
    <xsd:element ref="value"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="otherplatformrequirementsType">
  <xsd:sequence>
    <xsd:element ref="langstring" minOccurs="1" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="personType">
  <xsd:sequence>
    <xsd:element ref="vcard"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="purposeType">
  <xsd:sequence>
    <xsd:element ref="source"/>
    <xsd:element ref="value"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="relationType" mixed="true">
  <xsd:sequence>
    <xsd:element ref="kind" minOccurs="0"/>
    <xsd:element ref="resource" minOccurs="0"/>
    <xsd:group ref="grp.any"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="requirementType" mixed="true">
  <xsd:sequence>
    <xsd:element ref="type" minOccurs="0"/>
    <xsd:element ref="name" minOccurs="0"/>
    <xsd:element ref="minimumversion" minOccurs="0"/>
    <xsd:element ref="maximumversion" minOccurs="0"/>
    <xsd:group ref="grp.any"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="resourceType" mixed="true">
  <xsd:sequence>

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        <xsd:element ref="identifier" minOccurs="0"/>
        <xsd:element ref="description" minOccurs="0"/>
        <xsd:element ref="catalogentry" minOccurs="0" maxOccurs="unbounded"/>
        <xsd:group ref="grp.any"/>
    </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="rightsType" mixed="true">
    <xsd:sequence>
        <xsd:element ref="cost" minOccurs="0"/>
        <xsd:element ref="copyrightandotherrestrictions" minOccurs="0"/>
        <xsd:element ref="description" minOccurs="0"/>
        <xsd:group ref="grp.any"/>
    </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="roleType">
    <xsd:sequence>
        <xsd:element ref="source"/>
        <xsd:element ref="value"/>
    </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="semanticdensityType">
    <xsd:sequence>
        <xsd:element ref="source"/>
        <xsd:element ref="value"/>
    </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="sourceType">
    <xsd:sequence>
        <xsd:element ref="langstring"/>
    </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="statusType">
    <xsd:sequence>
        <xsd:element ref="source"/>
        <xsd:element ref="value"/>
    </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="stringType">
    <xsd:simpleContent>
        <xsd:extension base="xsd:string">
            <xsd:attribute ref="xml:lang"/>
        </xsd:extension>
    </xsd:simpleContent>
</xsd:complexType>

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    </xsd:simpleContent>
</xsd:complexType>

<xsd:complexType name="structureType">
  <xsd:sequence>
    <xsd:element ref="source"/>
    <xsd:element ref="value"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="taxonpathType">
  <xsd:sequence>
    <xsd:element ref="source" minOccurs="0"/>
    <xsd:element ref="taxon" minOccurs="0" maxOccurs="1"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="taxonType">
  <xsd:sequence>
    <xsd:element ref="id" minOccurs="0"/>
    <xsd:element ref="entry" minOccurs="0"/>
    <xsd:element ref="taxon" minOccurs="0" maxOccurs="1"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="technicalType" mixed="true">
  <xsd:sequence>
    <xsd:element ref="format" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element ref="size" minOccurs="0"/>
    <xsd:element ref="location" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element ref="requirement" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element ref="installationremarks" minOccurs="0"/>
    <xsd:element ref="otherplatformrequirements" minOccurs="0"/>
    <xsd:element ref="duration" minOccurs="0"/>
    <xsd:group ref="grp.any"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="titleType">
  <xsd:sequence>
    <xsd:element ref="langstring" minOccurs="1" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="typeType">
  <xsd:sequence>
    <xsd:element ref="source"/>
    <xsd:element ref="value"/>
  </xsd:sequence>
</xsd:complexType>

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    </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="typicalagerangeType">
  <xsd:sequence>
    <xsd:element ref="langstring" minOccurs="1" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="typicallearningtimeType">
  <xsd:sequence>
    <xsd:element ref="datetime" minOccurs="0"/>
    <xsd:element ref="description" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="valueType">
  <xsd:sequence>
    <xsd:element ref="langstring"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="versionType">
  <xsd:sequence>
    <xsd:element ref="langstring" minOccurs="1" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

<!-- ***** -->
<!-- ** Simple Types ** -->
<!-- ***** -->

<xsd:simpleType name="formatType">
  <xsd:restriction base="xsd:string"/>
</xsd:simpleType>

<xsd:simpleType name="sizeType">
  <xsd:restriction base="xsd:int"/>
</xsd:simpleType>

<xsd:simpleType name="datetimeType">
  <xsd:restriction base="xsd:string"/>
</xsd:simpleType>

<xsd:simpleType name="idType">
  <xsd:restriction base="xsd:string"/>
</xsd:simpleType>

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<xsd:simpleType name="metadataschemeType">
  <xsd:restriction base="xsd:string"/>
</xsd:simpleType>

<xsd:simpleType name="catalogType">
  <xsd:restriction base="xsd:string"/>
</xsd:simpleType>

<xsd:simpleType name="minimumversionType">
  <xsd:restriction base="xsd:string"/>
</xsd:simpleType>

<xsd:simpleType name="maximumversionType">
  <xsd:restriction base="xsd:string"/>
</xsd:simpleType>

</xsd:schema>
```