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Apêndice A – XML Schema de TAL

```
<?xml version="1.0"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">

  <!-- tal element -->
  <xs:complexType name="talType">
    <xs:sequence>
      <xs:element name="templateBase"
        type="templateBaseType"
        minOccurs="0" maxOccurs="1"/>
      <xs:element name="template"
        type="templateType"
        minOccurs="1"
        maxOccurs="unbounded"/>
    </xs:sequence>
    <xs:attribute name="id" type="xs:ID"
      use="required"/>
  </xs:complexType>
  <xs:element name="tal" type="talType"/>

  <!-- templateBase element -->
  <xs:complexType name="templateBaseType">
    <xs:sequence>
      <xs:element name="importTal"
        type="importTALType"
        minOccurs="1"
        maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="templateBase"
    type="templateBaseType"/>

  <!-- importTal element -->
  <xs:complexType name="importTALType">
    <xs:attribute name="documentURI"
      type="xs:string"
      use="required"/>
    <xs:attribute name="alias" type="xs:string"
      use="required"/>
  </xs:complexType>
  <xs:element name="importTAL"
    type="importTALType" />

  <!--template element -->
  <xs:complexType name="templateType">
    <xs:choice minOccurs="0"
      maxOccurs="unbounded">
      <xs:element name="component"
        type="componentType" />
      <xs:element name="interface"
        type="interfaceType"/>
    </xs:choice>
  </xs:complexType>

```

```

        <xs:element name="relation"
            type="relationType"/>
        <xs:element name="assert"
            type="assertType"/>
        <xs:element name="report"
            type="reportType"/>
        <xs:element name="warning"
            type="warningType"/>
        <xs:element name="link"
            type="linkType"/>
    </xs:choice>
    <xs:attribute name="id" type="xs:ID"
        use="required"/>
    <xs:attribute name="extends"
        type="xs:string"
        use="optional"/>
</xs:complexType>
<xs:element name="template"
    type="templateType"/>

<!--component element -->
<xs:complexType name="componentType">
    <xs:choice minOccurs="0"
        maxOccurs="unbounded">
        <xs:element name="component"
            type="componentType"/>
        <xs:element name="interface"
            type="interfaceType"/>
    </xs:choice>
    <xs:attribute name="id" type="xs:ID"
        use="required"/>
    <xs:attribute name="selects"
        type="xs:string"
        use="required"/>
    <xs:attribute name="template"
        type="xs:string"
        use="optional"/>
</xs:complexType>
<xs:element name="component"
    type="componentType"/>

<!--interface element -->
<xs:complexType name="interfaceType">
    <xs:attribute name="id" type="xs:ID"
        use="required"/>
    <xs:attribute name="selects"
        type="xs:string"
        use="required"/>
</xs:complexType>
<xs:element name="interface"
    type="interfaceType"/>

<!--relation element -->
<xs:complexType name="relationType">
    <xs:attribute name="id" type="xs:ID"
        use="required"/>
    <xs:attribute name="selects"
        type="xs:string"
        use="required"/>
</xs:complexType>

```



```
<xs:element name="relation"
            type="relationType"/>

<!--assert element -->
<xs:complexType name="assertType">
  <xs:attribute name="test" type="xs:string"
               use="required"/>
</xs:complexType>
<xs:element name="assert" type="assertType"/>

<!--report element -->
<xs:complexType name="reportType">
  <xs:attribute name="test" type="xs:string"
               use="required"/>
</xs:complexType>
<xs:element name="report" type="reportType"/>

<!--warning element -->
<xs:complexType name="warningType">
  <xs:attribute name="test" type="xs:string"
               use="required"/>
</xs:complexType>
<xs:element name="warning" type="warningType"/>

<!--link element -->
<xs:complexType name="linkType">
  <xs:attribute name="id" type="xs:ID"
               use="optional"/>
</xs:complexType>
<xs:element name="link" type="linkType"/>

<!--forEach element -->
<xs:complexType name="forEachType">
  <xs:attribute name="instance"
               type="xs:string"
               use="required"/>
  <xs:attribute name="iterator"
               type="xs:string"
               use="required"/>
  <xs:attribute name="step" type="xs:string"
               use="optional"/>
</xs:complexType>
<xs:element name="forEach" type="forEachType"/>

</xs:schema>
```