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<?xml version="1.0" encoding="UTF-8" ?>
- <xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified">
  <!-- Datatypes - Questionnaire metadata -->
  - <xs:simpleType name="clinic_id">
    - <xs:restriction base="xs:string">
      <xs:minLength value="3" />
      <xs:maxLength value="6" />
    </xs:restriction>
  </xs:simpleType>
  - <xs:complexType name="patient">
    - <xs:sequence>
      <xs:element name="patient_id" type="patient_type" />
      <xs:element name="name" type="xs:string" minOccurs="0" maxOccurs="1" />
      <xs:element name="firstname" type="xs:string" minOccurs="0" maxOccurs="1" />
      <xs:element name="birthdate" type="xs:date" minOccurs="0" maxOccurs="1" />
      <xs:element name="female" type="xs:boolean" minOccurs="0" maxOccurs="1" />
    </xs:sequence>
  </xs:complexType>
  - <xs:simpleType name="patient_type">
    - <xs:restriction base="xs:integer">
      <xs:pattern value="[0-9]{10}" />
    </xs:restriction>
  </xs:simpleType>
  <!-- Datatypes - Questionnaire -->
  - <xs:complexType name="category">
    - <xs:sequence>
      <xs:element name="category_id" type="xs:positiveInteger" />
      <xs:element name="name" type="xs:string" />
      <xs:element name="minimum_answers" type="xs:positiveInteger" />
      <xs:element name="score" type="xs:integer" minOccurs="0" maxOccurs="1" />
    </xs:sequence>
  </xs:complexType>
  - <xs:simpleType name="answer_text">
    - <xs:restriction base="xs:string">
      <xs:minLength value="2" />
      <xs:maxLength value="255" />
    </xs:restriction>
  </xs:simpleType>
  - <xs:simpleType name="answer_value">
    - <xs:restriction base="xs:integer">
      <xs:minInclusive value="0" />
      <xs:maxInclusive value="10" />
    </xs:restriction>
  </xs:simpleType>
  - <xs:complexType name="answer">
    - <xs:sequence>
      <xs:element name="answer_id" type="xs:positiveInteger" />
      <xs:element name="choosed" type="xs:boolean" default="false" />
      <xs:element name="text" type="answer_text" />
      <xs:element name="value" type="answer_value" />
    </xs:sequence>
  </xs:complexType>
  <!-- Questionnaire -->
  - <xs:element name="questionnaire">
    - <xs:complexType>
      - <xs:sequence>
        <!-- Questionnaire metadata -->
        - <xs:element name="head">
          - <xs:complexType>
            - <xs:sequence>
              <xs:element name="questionnaire_id" type="xs:positiveInteger" />
              <xs:element name="name" type="xs:string" minOccurs="0" maxOccurs="1" />
              <xs:element name="description" type="xs:string" minOccurs="0" maxOccurs="1" />
              <xs:element name="comment" type="xs:string" minOccurs="0" maxOccurs="1" />
              <xs:element name="score" type="xs:integer" minOccurs="0" maxOccurs="1" />
              <xs:element name="clinic" type="clinic_id" />
              <xs:element name="patient" type="patient" />
              <xs:element name="timestamp" type="xs:dateTime" />
            </xs:sequence>
          - <xs:element name="categories">
            - <xs:complexType>
              - <xs:sequence>
                <xs:element name="category" type="category" maxOccurs="10" />
              </xs:sequence>
            </xs:complexType>
          </xs:element>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  <!-- Questions -->

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- <xs:element name="body">
-   <xs:complexType>
-       <xs:sequence>
-           <xs:element name="chapter" maxOccurs="10">
-               <xs:complexType>
-                   <xs:sequence>
-                       <xs:element name="name" type="xs:string" minOccurs="0" maxOccurs="1" />
-                       <xs:element name="questions" maxOccurs="1">
-                           <xs:complexType>
-                               <xs:sequence>
-                                   <xs:element name="question" maxOccurs="50">
-                                       <xs:complexType>
-                                           <xs:sequence>
-                                               <xs:element name="question_id" type="xs:positiveInteger" />
-                                               <xs:element name="category" type="xs:positiveInteger" />
-                                               <xs:element name="text" type="xs:string" />
-                                               <xs:element name="answered" type="xs:boolean" default="false" />
-                                               <xs:element name="multiplechoice" type="xs:boolean" default="false" />
-                                           </xs:sequence>
-                                       </xs:complexType>
-                                   </xs:sequence>
-                               </xs:complexType>
-                           </xs:sequence>
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-                   </xs:sequence>
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-       </xs:sequence>
-   </xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:schema>
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