

# Procedure Declaration Using Mark Up Language

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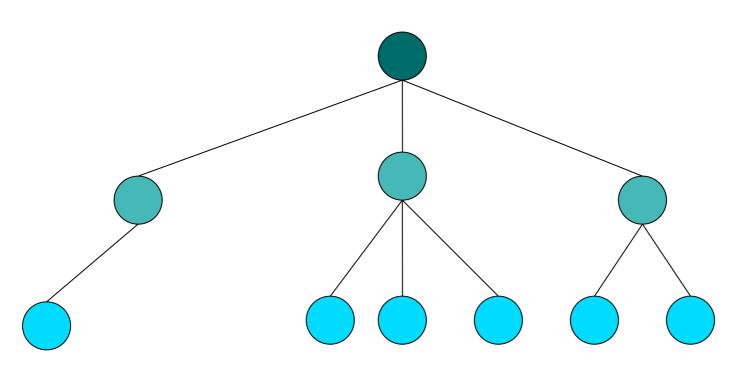
#### **Procedure**

A set of one or more instructions which are executed to collect data.

Essentially, they provide the CHWs with the medical decision trees developed by the clinical specialists.



#### **Basic Implementation**



**Procedure:** The decision tree in its entirety.

Page: A set of one or more instructions

**Element:** A point of instruction.



# Simple Procedure XML

```
<Procedure title="Welcome"
  author="Sana"
  id="000-0000-0000-0000"
  Version="1.0">
  <Page>
    <Element id="1"
       concept="FAVORITE COLOR"
       question="What is your favorite color?"
      type="ENTRY"
      answer=""/>
  </Page>
</Procedure>
```



#### **Element Attributes**

```
<Element id="1"
  concept="FAVORITE COLOR"
  question="What is your favorite color?"
  type="ENTRY"
  answer=""/>
```

Concept: A term from the ontology Question: Prompt presented to the user Type: A flag which indicates the widget to use.

**Answer:** A default value.



# **Procedure Element Types**

- TEXT
- ENTRY
- SELECT
- MULTI-SELCT
- RADIO
- TIME
- DATE

- PATIENT\_ID
- BINARYFILE
- GPS
- EDUCATION\_RESOURCE
- PICTURE
- . SOUND
- PLUGIN
- ENTRY\_PLUGIN



#### **Other Element Attributes**

- Optional Attributes
- required
- audio
- image

#### **Element Specific**

RADIO, SELECT, MULTI\_SELECT

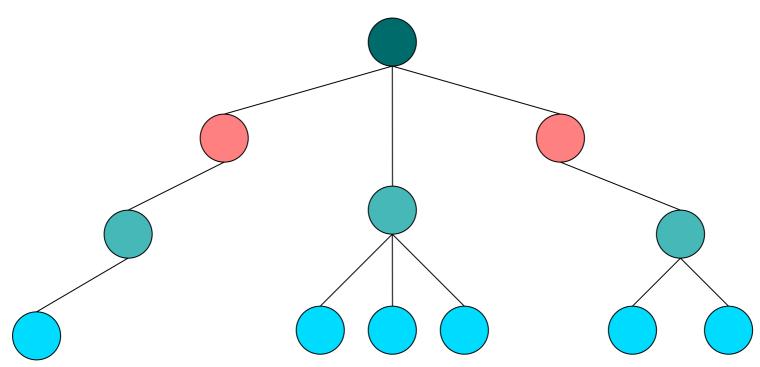
choices

#### **PLUGIN**

- action
- mimeType



# **Complex Implementation**



Branching Logic: Branching logic added at the page level.



# **Branching Logic**

#### Simple Comparison

Type: Comparison operators.

**EQUALS, GREATER, LESS** 



# **Branching Logic**

#### Compund

**Boolean Operators: and, or, not** 



## **Branching Logic**

#### **Simple Comparison**

Type: Comparison operators.

**EQUALS, GREATER, LESS** 



# **Procedure Example**

```
<Procedure title="Welcome" author="Sana" version="1.0"</pre>
  id="000-0000-0000">
  <Page>
    <Element id="1" concept="FAVORITE COLOR" type="ENTRY"</pre>
       question="What is your favorite color?" answer=""/>
  </Page>
  <Page>
    <Showlf>
      <or>
        <Criteria type="EQUALS" id="1" value="BLUE"/>
        <Criteria type="EQUALS" id="1" value="RED"/>
      </or>
    </Showif>
    <Element id="2" concept="QUEST" type="ENTRY"
       question="What is your quest?" answer=""/>
  </Page>
</Procedure>
```

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