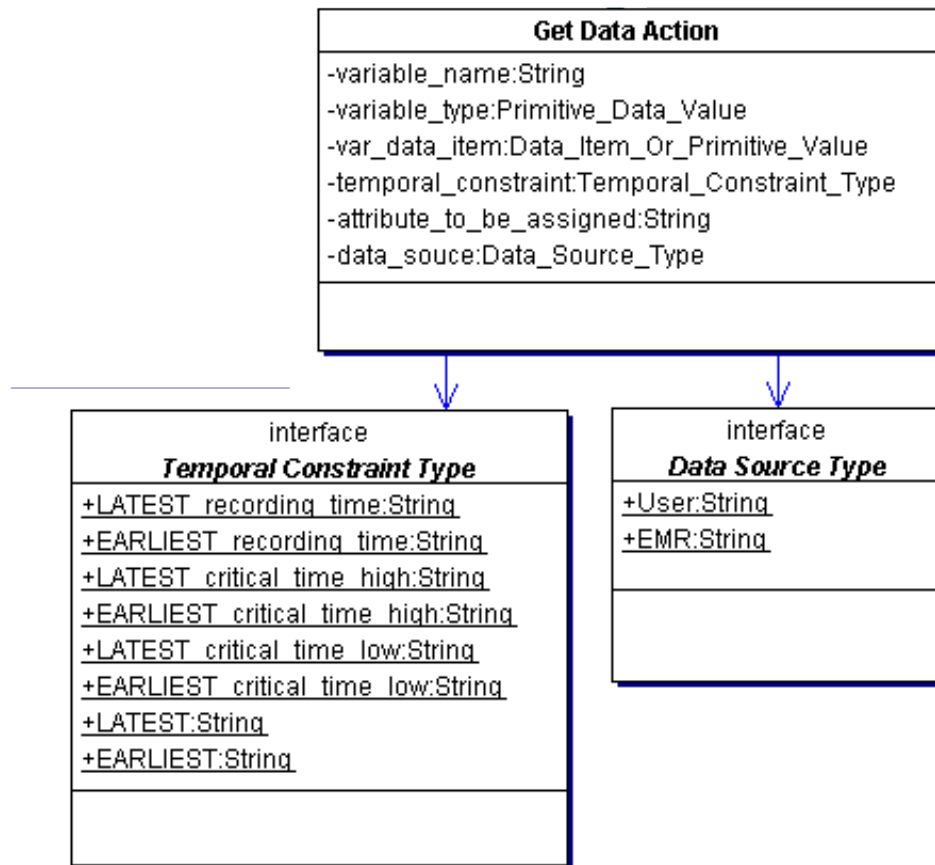


### Get data task (action specification)

The get data task specifies what primitive attribute of a data item would be read and into which variable. The class diagram is shown in Figure 1.



**Figure 1. The Get data action specification class diagram**

Figure 2 shows how the ending time of the latest cough (in the list of cough instances of the patient for the past 8 weeks) is entered into the variable `latest_cough_end_time`. The temporal constraint is used to select one data item out of a list of data items of the patient that correspond to a single concept. It is usually the earliest or latest data item, where latest/earliest is chosen either by critical time or recording time. Other types of constraints may be applied to the list of data items before the temporal constraint is applied. Figure 3 shows an example of retrieving the latest body temperature measurement of all the measurements in the past 8 weeks that are recorded in Celsius. All the attributes of the data item (recording time, body-site) may serve as constraints.

The image shows two overlapping software windows. The left window, titled 'Cough\_00241 (instance of Get\_Data\_Action)', contains the following fields:
 

- Name:** Get Cough details
- Description:** Get details on whether the patient is currently coughing
- Intention:** (empty)
- Attribute To Be Assigned:** critical\_time.high
- Variable Name:** latest\_cough\_end\_time
- Data Source Type:** User
- Temporal Constraint:** LATEST\_recording\_time

 The right window, titled 'Cough\_00437 (instance of Ob...', contains:
 

- Service Cd:** Cough
- Mood Cd:** event
- Value:** (empty)
- Critical Time:** (now - 8 weeks, now)
- Variable Type:** Time\_stamp

 An arrow points from the 'Cough' entry in the 'Var Data Rel' field of the left window to the 'Cough' entry in the 'Service Cd' field of the right window.

Figure 2. The “get cough details” task that is done within the history action step.

The image shows two overlapping software windows. The left window, titled 'CoughNewOnt4\_00866 (instance of Get\_D', contains the following fields:
 

- Name:** Get temperature
- Description:** (empty)
- Intention:** (empty)
- Attribute To Be Assigned:** value.pq\_value
- Variable Name:** temp
- Data Source Type:** User
- Temporal Constraint:** LATEST\_recording\_time

 The right window, titled 'CoughNewOnt2\_00108 (in...', contains:
 

- Service Cd:** body temperature
- Mood Cd:** event
- Value:** degrees Celsius
- Critical Time:** (now - 8 weeks, now)
- Variable Type:** Floating\_point

Figure 3. An example of getting a data item where some constraints apply (constraints on the unit of the measured value).

### The assignment action specification

The assignment action specification class diagram is shown in Figure 4, and an example is shown in Figure 5.

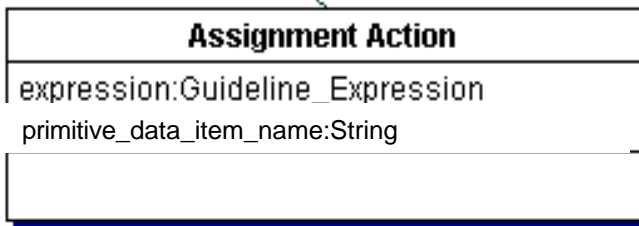


Figure 4. The assignment action specification class diagram

The screenshot shows a software window titled "CoughNew1\_01334 (instance of Assignment\_Action)". The window contains several input fields and buttons:

- Name:** A text field containing "set Uncommon\_condition\_not\_evaluated =".
- Description:** An empty text field.
- Expression:** A text field containing "true". Above this field are four buttons labeled "V", "C", "+", and "-".
- Intention:** An empty text field.
- Primitive Data Item Name:** A text field containing "Uncommon\_condition\_not\_evaluated".

Figure 5. An example of an assignment action specification