Checklist for Evaluation of the Model

For the Coverage and flexibility measure, participant need to fill-up below Table with the calculated value they derive in Method one (M1) process. The Table provided ideal value for each situation.

	Class Coverage	Class Flexibility	Attribute Coverage	Attribute Flexibility
CQ-Model	≈ 0.3 $[\, 1 - \frac{|Cc - Mc|}{|Cc|} \,]$	≈ 0.75 $[\, \frac{|Mc - Cc|}{|Mc|} \,]$	≈ 0.5 $1 - \frac{|Cp - Mp|}{|Cp|}$	≈ 0.5 $[\, \frac{|Mp - Cp|}{|Mp|} \,]$
DS-Model	≈ 1 $[\, 1 - \frac{|Dc - Mc|}{|Dc|} \,]$	≈ 0 $[\, \frac{|Mc - Dc|}{|Mc|} \,]$	≈ 1 $[\, 1 - \frac{|Dp - Mp|}{|Dp|} \,]$	≈ 0 $[\, \frac{|Mp - Dp|}{|Mp|} \,]$
CQ-DS	≈ 0.3 $[\, 1 - \frac{|Cc - Dc|}{|Cc|} \,]$	≈ 0.4 $[\, \frac{|Dc - Cc|}{|Dc|} \,]$	≈ -0.1 $[\, 1 - \frac{|Cp - Dp|}{|Cp|} \,]$	≈ 0.5 $[\, \frac{|Dp - Cp|}{|Dp|} \,]$

Cc → total class in competency question
Cp → total properties is competency question
Mc → total class in model
Mp → total properties in model
Dc → total class in dataset
Dp → total properties in dataset

Schema Level
- Does the model including cycles in the class hierarchy ? **NO**
- Does the Model uses any polysemous terms for its class or property name? **NO**
- Is Multiple Domain / Range defined for any property ? **YES, but no inconsistency**
- Does any class have more than one direct parent class ? **NO**
- Does the Model include multiple classes which have same meaning ? **NO**
- Is the class Hierarchy over specified? **NO**
- Does the model use *isA* as a object Property or relation? **NO**
- Does the model have any leaf class for which there is no relation with the rest of the model? **NO**
- Did you use miscellaneous or others as one of the class name? **NO**
- Does the model have any chain of Inheritance in class hierarchy? **NO**
- Do all properties have explicit domain and range declarations? **YES**
- Does the model have any classes or properties which are not used? **NO**
- Are a collection of elements included as a group in a number of class/attribute? **YES**

Linguistic Level
- Does all elements of the model (i.e. class and property) have human readable annotations? **NO**

- Do all elements of the model follow the same naming convention? **YES**

Metadata Level

- Is provenance information (Creator, Version, Date) available for the final protege model? **NO**
- Is provenance information available for any property or class which is taken from some reference standard or ontology? **NO**