

UML Design Answers

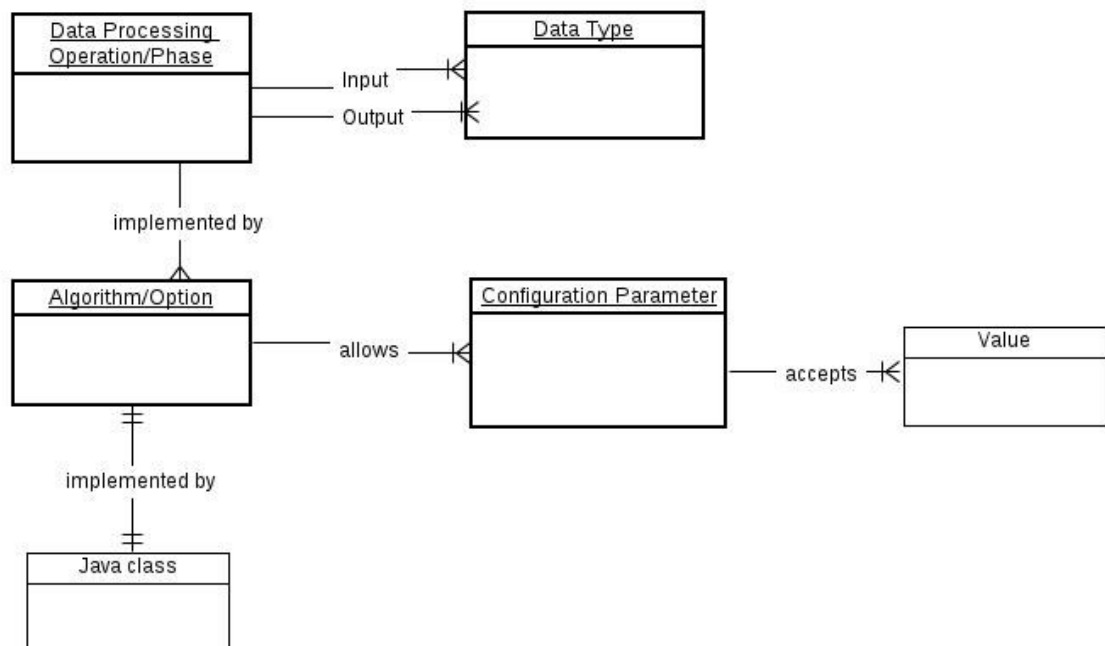
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Answer 1)

Conceptual Classes

- Extract all the nouns
 - ~~Intelligent Information Systems~~ — *System itself*
- Data processing operations *Included*
- Phase *Same as Data Processing operations*
- Data type *Included*
- algorithm *Included*
- option *Same as algorithm*
- Java Class *Included*
- configuration parameter *Included*
- value *Included*

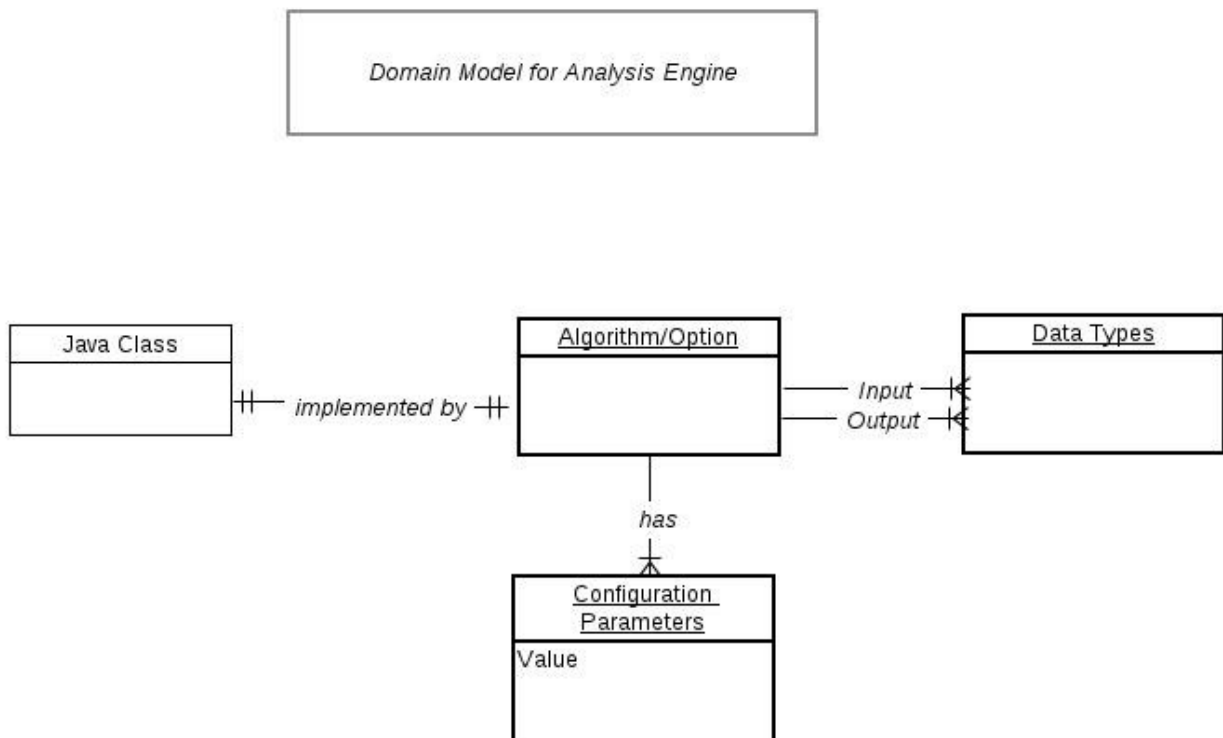
Domain Diagram for Intelligent Information System



Answer 2)

Conceptual Classes

- ~~AnalysisEngine~~ *System itself*
- algorithm *Included*
- option *Included*
- data type *Included*
- Java class *Included*
- configuration parameter *Included*
- value *Attribute*



Answer 3) The following sequence of interactions is followed between IIS and any of the AE.

1. The IIS instantiates its engine.
2. The IIS reads the information stored in its instance. It retrieves the information about the AE as to how many instances of AE is wanted in the list and which type of AE they should be of.
3. Initializes a list to store the AE instances which will be created.
4. Issues a command to create the required type of AE engine (AE[i]).
5. Receives an instance of AE.
6. Adds the instance received in its list.

7. Repeats 4-6 until all the instances of AE are generated as stored as per required.
8. Returns the list of AE instances.

Sequence Diagram

