

EECS3311 - SECTION A - FALL 2019

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How the iterator pattern is implemented into the model cluster:

- The Repository class inherits from the ITERABLE class of type tuple[DATA_1, DATA2, KEY].
- The new_cursor method is implemented.
- It returns an ITERATION_CURSOR[TUPLE[DATA1, DATA2, KEY]] object. This object is an instantiation of the TUPLE_ITERATION_CURSOR class.
- This TUPLE_ITERATION_CURSOR class inherits from ITERATION_CURSOR of type ITERATION_CURSOR[TUPLE[ITEM_1, ITEM_2, KEY]].
- In here, the three required features item, forth, and after are defined. On the client side, the client calls the repos.new_cursor method to get a new iterator.
- That iterator is used to iterate through objects of such type.

How the feature another_cursor is implemented in the Repository class:

- The another_cursor method returns an ITERATION_CURSOR[DATA_SET[DATA1, DATA2, KEY]] object.
- This object is an instantiation of the DATA_SET class.
- Which shows that this iterator is used for iterating through ITERABLES (COLLECTIONS) whose objects/list-items are of type DATA_SET.
- This class inherits from ITERATION_CURSOR of type ITERATION_CURSOR[DATA_SET[ITEM_1, ITEM_2, KEY]].
- In here, the three required features item, forth, and after are defined.