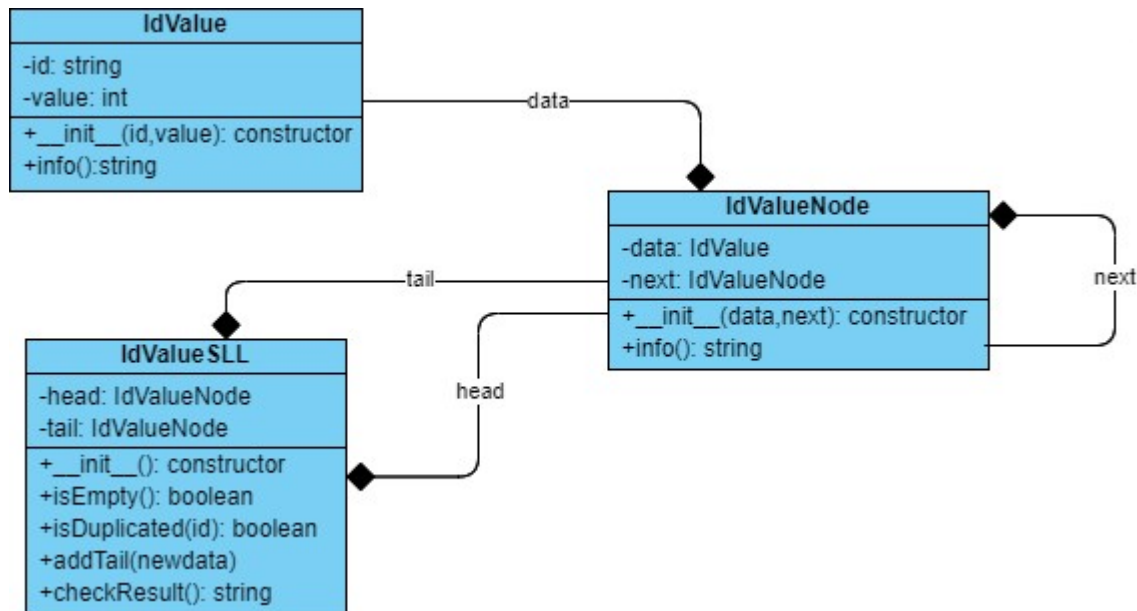


Given Single Linked List (SSL) UML diagram to manage IdValue objects



Requirments

Students must implement class object and methods flollowing instructions

1. **IdValue class:** The class object describes IdValue data
 - `__init__(id, value)`: The constructor method with two parameters as id (string) and value (int).
2. **IdValueNode class:** The class object describes node item in list
 - `__init__(data,next)`: The constructor method with two parameters as data (IdValue type which store data object) and next (IdValueNode type which refer the next node object).
3. **IdValueSLL class:** The class object describes single linked list to store multiple IdValueNode
 - `__init__()`: The constructor method without parameter called default constructor method. In default constractor method the head node and tail node should be assign None.
 - `isEmpty()`:The method will return True if the SSL is empty (there is not any item in list) otherwise False.
 - `isDuplicated(id)`: The method will return True if the SSL contains any item node whose id attribute of data is equal id parameter (passed by argument when calling method), otherwise False.
 - `addTail(newdata)`: The method will add new item to end of list.