QGIS Application - Feature request #12200 Move layers within ToC using PyQGIS

2015-02-13 04:49 AM - Joseph Liam

Status:	Closed	
Priority:	Normal	
Assignee:		
Category:		
Pull Request or Patch supplied:		Resolution:
Easy fix?:	No	Copied to github as #: 20389
Description		
Based on a post of	on GIS StackExchange (http://gis	.stackexchange.com/questions/134284/how-to-move-layers-in-qgis), it seems the only
-		Table of Contents) via PyQGIS is to:
1. Clone the lay	/er	
2. Insert clone at the desired position		
3. Remove the	original	
This process is d	ecribed in the following posts:	
 http://www.lutraconsulting.co.uk/blog/2014/07/06/qgis-layer-tree-api-part-1/ 		
- <u>http://www.lu</u>	traconsulting.co.uk/blog/2014/07	/25/qgis-layer-tree-api-part-2/
	-	s an index which defines the position within the ToC. Therefore, inserting a cloned layer
into an index alre	ady owned by another layer will c	ause problems.
Possible solution	on:	
When moving a la	ayer into a desired index (i.e. 3), r	nake all layers with an index $>= 3$ to have their index increase by 1. This would make
the original layer that was at index 3 to have index 4; original layer with index 4 to have index 5 and so on		
History		

#1 - 2015-02-13 10:11 AM - Martin Dobias

I think I fail to see the problem here...

There is nothing like indexes being owned by layer nodes. Indexes just mirror the order how nodes are stored in an array. It works exactly the same as when you work with a simple python list. Think of list lst=[10,11,12]. How do you move value 11 up or down in such list? To move it up: del lst¹; lst.insert(0, 11). To move it down: del lst¹; lst.insert(2, 11). It is exactly the same when moving nodes in a layer tree, you just need to clone the objects.

Maybe the confusion comes from the fact the blog post suggest to first insert new node before removing the old node - while it is a bit more practical to do it in reverse? (first delete old node, then insert new one) It is perfectly fine to reverse the operations, the advantage is that the index of the deleted node does not change.

#2 - 2016-05-24 12:15 PM - Alexander Bruy

- Status changed from Open to Closed

Closed, as there is no problem here. Please reopen if necessary