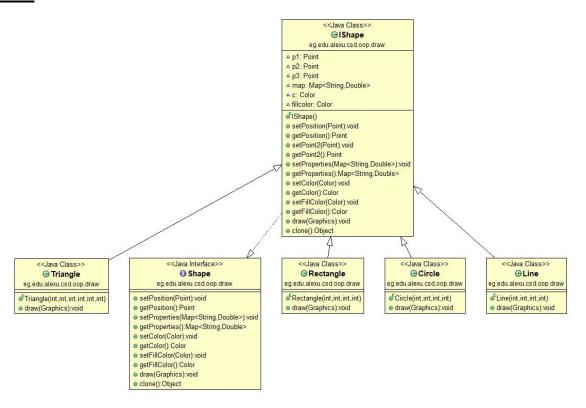
Lab_2 Report

UML diagram:



Description:

- There are two interfaces (Shape _ DrawingEngine) that have been implemented in two classes (IShape _ IDrawingEngine) which will help us while drawing.
- Draw:

We draw by the function 'paint' in the class frame. We choose which shape to draw by setting the variable (counter) by a number to each shape. After the shape has been drawn we save it in the Linked List 'shapes'.

Color ,Delete ,Resize ,Move

Before we use any of these actions ,the button select must be clicked. Then the required action is made.

· Undo, Redo

we save the shape that has been modified in a stack (undo ,redo). And we save the action that has been made in another stack (undoaction ,redoaction). If the action performed was changing color we save the color in a stack (undocolor ,redocolor).

Save ,Load

User is asked to determine where to save the file and then enter its name with the extension (.xml) and then the file is created and store the shape drawn .

To load the file user is required to choose file with xml extension and it will paint all the shapes saved in the sheet.

User guide:

- You can draw by choosing the shape you want from the top and then draw freely
- You can modify (move ,delete, resize ,change color) the shape you want by clicking the related button but first you must select it .
- You can undo and redo any action performed by clicking the buttons related .
- You can save the drawing board in a file and load it .

Snapshots of GUI:

