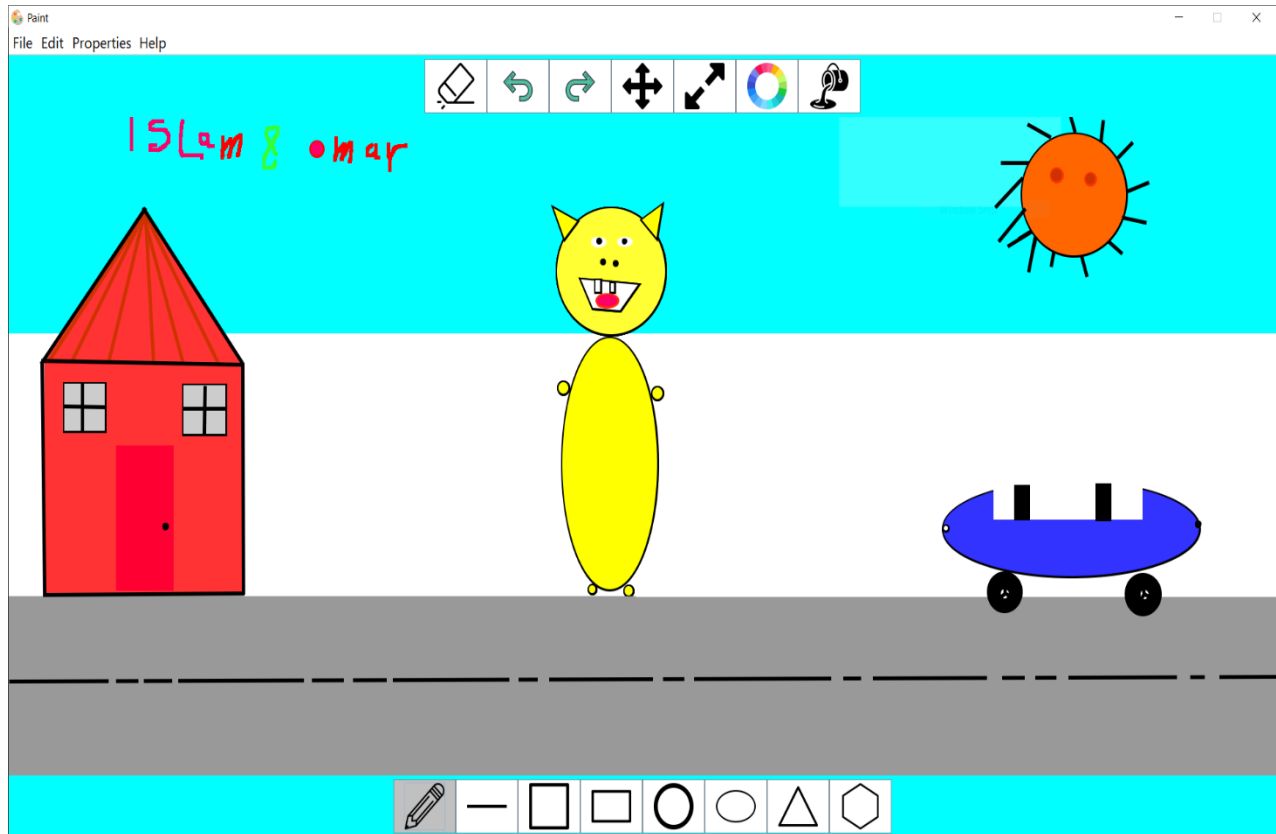




Paint Program



By:

-Islam Yousry Abdelwahid (no.14)

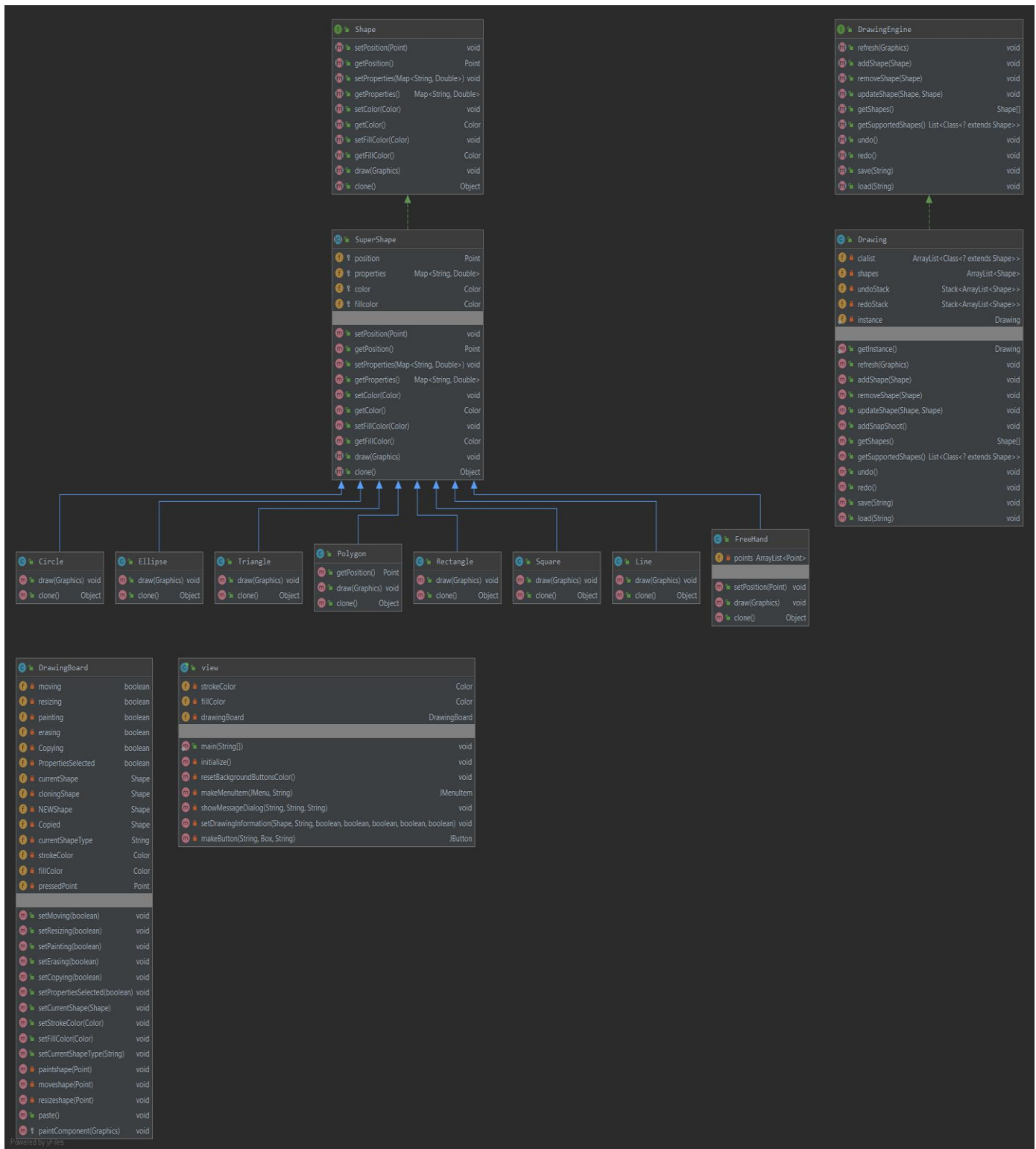
-Omar Mohamed Emam (no.44)

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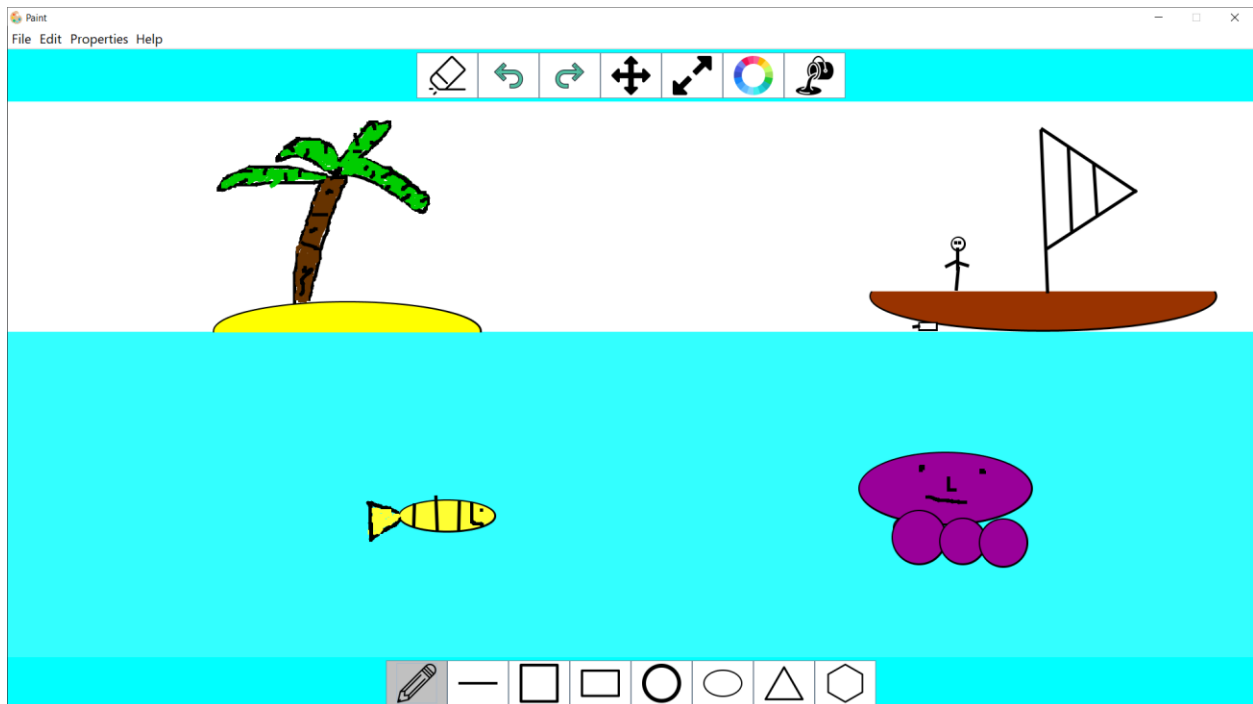
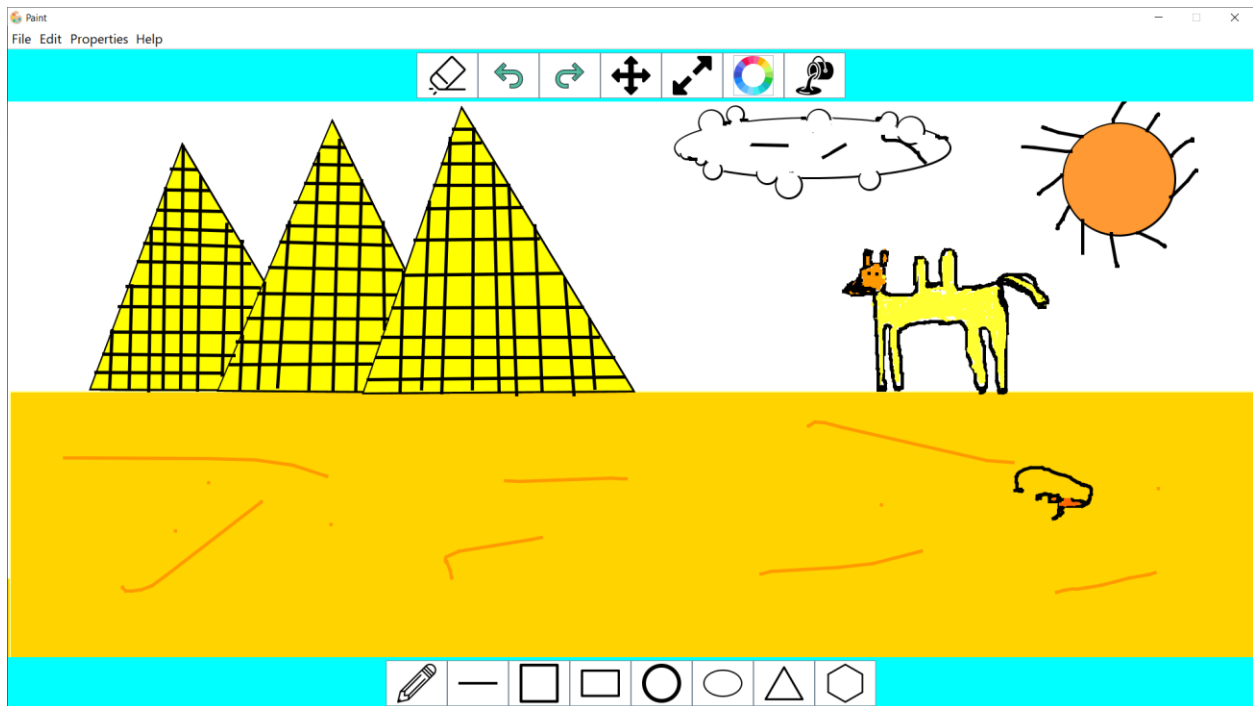
UML Diagram:




Design Description:

- The program consists of three main parts:
 1. **view Class:** this class is a subclass of JFrame class which controls the interface style (e.g. buttons icons, pop ups ...etc.) and has the buttons actions.
 2. **DrawingBoard Class:** this class is a subclass of JPanel that has mouse Actions for painting.
 3. **Shape Interface and its classes :** this part have the implementation for every shape in its own way
 - here we set the parameters for every shape, draw it, color it, fill it and clone it.
 - other buttons which don't have a specific function is implemented in gui class
 4. **Drawing Engine and Drawing Class:** this class implements the drawing engine interface which controls the whole flow in program and has the main required functions.
- All functions work in the flow showed in the UML
- The program is able to show the user everything required to finish operation in user friendly way
- Program handles all expected errors.

GUI Snapshots:



User Guide:

Task	Method
Draw	Click on shape button then click and drag on the canvas
move	Click on move button, select the shape the move it
resize	Click on resize button, select shape, move up to increase size or down to decrease size
Change fill color	Click fill button, choose color from pallet as last pic shows
Change stroke color	Click  button, choose color from pallet as last pic shows
Delete	Click erase button, select the shape
Undo & Redo	Just click on the button
Copy	Edit menu > copy > select shape
paste	Edit menu > paste
Show Properties	Properties menu > show properties > select shape
Save	File menu > save > choose location > save

Load	File menu > load > choose location > open
Add Shape	File menu > Add Shape > choose location of Jar file > open

Program Designed By:

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