**Draw and Paint Application**

The program has 2 packages. The first package ”classes” contains the shapes classes and the class responsible to create those shapes on the board and the class shape which is the parent class for all shape classes

Graphical user interface, application

Description automatically generated

And we have the class view which is responsible to show the shapes on a board in a frame and contains the frame “GUI classes”Graphical user interface, text, application

Description automatically generated

**Package classes**

The class shape is the parent class for line, circle, rectangle, square and triangle. It inherits 2 abstract methods: draw and select.

Each of these classes override the methods draw and select to draw and select specific shape.

The select method is used to select a drawn shape in order to resize, move or delete it.

The class “shapemaking” is responsible to create shapes on the board according to the parameters passed to it.

**Package view**

It contains 2 classes . The GUI class is the class which contains the frame and the board to draw on. The board class contains the logic of the program, it calls the methods of drawing, resizing, copying, deleting and moving shapes.

Graphical user interface

Description automatically generated

**User Guide**

Firstly, you should choose a color.

Graphical user interface, chart

Description automatically generated

Then, you choose the shape you want to draw.

**Line:**

**Graphical user interface

Description automatically generated with low confidence**

**Rectangle:**

**Graphical user interface

Description automatically generated with medium confidence**

**Circle:**

**Graphical user interface

Description automatically generated with low confidence**

**Square:**

**A picture containing graphical user interface

Description automatically generated**

**Triangle:**

**Graphical user interface

Description automatically generated with medium confidence**

**Draw:**

All these shapes are dawn from the class ”shapemaking” which contains this method.Graphical user interface, text, application, email

Description automatically generated