

# Paint Brush Project Specifications

## Abstract

Paint Brush is an Applet based application that enables the user to draw basic shapes with different colors and line strokes. In addition the user should have the ability to clear all of the drawings or erase some parts of them. The user would be happy if the applications supported Undo operations.

**You must show how much you understand OOP throughout the design and implementation of your project.**

## Specifications

1. **Colors Buttons:** The user should press one of these buttons before drawing to draw using this color.  
At least the following buttons:
  - Red
  - Green
  - Blue
2. **Shapes Buttons:** The user should press one of these buttons before the drawing to draw a shape by dragging from a start point to an end point. The shape should be drawn while dragging till the user release the mouse button.
  - Rectangle
  - Oval
  - Line
3. **Free Hand Button:** The user should press on this button to doodle while dragging.
4. **Eraser Button:** The user should press on this button be able to erase parts of the drawings.
5. **Clear All Button:** The user should press on this button to clear all of the drawings from the drawing area.
6. **Filled Checkbox:** If checked, it lets the Rectangle or Oval shapes that will be drawn after to be filled with the pre-selected color. If not check, it lets the shapes to be drawn as outlines only.
7. **Bonus:**
  - **Undo Button:** It lets the user undo the previous action(s)
  - **Dotted Checkbox:** If checked it lets the shapes line stroke to be dotted. If not checked, it lets the shapes line strokes to be solid.
  - **Save Button:** It enables the user to save his drawings to a file as image.
  - **Open Button:** It enables the user to load an image to the drawing area.



### **Project Delivery**

Delivery Date: November 17, 2022 at 11:59 p.m.

### **Delivery Package:**

Compressed folder contains:

- .Java Code
- .Class Files
- HTML File

### **Delivery Methodology:**

Each trainee should create a folder with your full name in your track's folder in the Java course folder on Microsoft Teams

Then upload a compressed folder with your full name contains the following:

**before the deadline November 17, 2022 11:59 p.m**

Any submission after the deadline will not be accepted.

### **Support Methodologies**

Don't hesitate to communicate Eng. Ahmed Mazen for any support via:

- E-Mail: [amazen@iti.gov.eg](mailto:amazen@iti.gov.eg)
- Mobile: 011 467 55 230