

ITP2 - Final Project - User Testing Spec

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The Drawing App (JavaScript)

Hello, tester!

Before you begin:

1. Make a copy of this file (**File > Make a copy**)
2. The project is **temporarily hosted** at:
3. Make sure you **open the website on desktop** and not a smartphone or tablet
4. You can test the tools in any order you want
5. Use the save image button to save some images after 5 or 6 steps.
6. Preferably **use green text color to answer the questions (E.g. Yes)**

Available tools (in the order in which they appear in the toolbar):

1. Pencil tool (Free hand tool)
2. Line To tool
3. Spray can tool
4. Mirror draw tool
5. **Text tool**
6. **Insert Image tool**
7. **Shape tool**
8. Eraser
9. **Shape compose tool**
10. **Bucket fill tool**
11. **Editable Shape tool (a.k.a. Pen Tool)**

* The ones shown in bold are built by me from scratch, so they require more testing

General Tests:

1. Were you **able to load the page** (Y/n)?
2. Was the **pencil tool selected by default**(Y/n)?

3. Was the **color palette and status bar visible** on the screen(Y/n)?
4. Try selecting a different tool.
The **new tool's icon got highlighted**(Y/n):
The **old tool's icon got unhighlighted**(Y/n):
5. Move your mouse around the canvas. Does the **mouse coordinates update** on the status bar (Y/n)?

Tool specific testing:

1. **Pencil tool:**
 - a. Use it to scribble something on the canvas
 - b. Use **the slider to increase the brush size**
 - c. Draw with increased brush size
 - d. Try **changing colors and drawing**

Were you able to do the above things (Y/n)?

2. **Line tool:**

Draw some straight lines at different angles. Done (Y/n)?

3. **Spray can tool:**

Does the sprayer work as expected (Y/n)?

4. **Mirror draw tool:**

- a. Do you see a red line appear at the center of the canvas (Y/n)?
- b. Try to draw something. Is your drawing getting mirrored to the other side (Y/n)?
- c. Click the button "**Make horizontal**". Does the red line become horizontal (Y/n)?
- d. Try to draw something. Is your drawing getting mirrored to the other side (Y/n)?

5. **Text Tool**

- a. Click anywhere on the canvas. Does the **cursor appear where you clicked** (Y/n)?
- b. Type some text.
- c. Use the **left arrow, right arrow and backspace keys to edit the text**.
- d. Press enter to finish.

Does the **text appear as expected** (Y/n)?

- e. Press somewhere on the canvas and type some more text.
- f. Try changing the font size, text rotation and font family.
- g. Press the escape key.

Does the above **text transformations** work properly (Y/n)?

6. Insert Image tool:

- a. Click the choose file button and **choose an image from your computer**
- b. Does the **image appear on the canvas with a green line around it** (Y/n)?
- c. Try using the **resize slider to decrease/increase the image size**. Does it work as expected (Y/n)?
- d. Try **dragging the image around the canvas**. Does the image's position change as expected (Y/n)?
- e. Click the finish button. Does the **green line disappear and the image gets placed** where you wanted to be (Y/n)?

7. Shape tool:

- a. Try drawing a shape of each type from the dropdown menu, some filled and some non-filled (Uncheck the filled box). Were you able to draw all the given shapes without any issues (Y/n)?
- b. Select the rectangle shape, start drawing and **press the shift key while drawing**. Does a square get drawn (Y/n)?
- c. Select the polygon tool, start drawing and try pressing the up and down arrow keys on your keyboard. Does the number of sides of the polygon increase/decrease respectively (Y/n)?

8. Eraser Tool:

- Try erasing some of the previous drawings you have made.
- Use the slider to change the size of the eraser.
- Try using the +/- keys on your keyboard. Does the eraser size increase/decrease respectively (Y/n)?

9. Shape compose Tool:

This is my prime and favorite tool. While testing you will come to know why? 😊

- Draw a shape on the canvas (rectangle, circle etc.). **Does the status bar show something like “1 shape for...” for a few seconds (Y/n)?**
- Now, draw another shape overlapping the previous shape.
- Select the **“UNION” operation from the operations drop down (selected by default) and press the perform button. Does the shape get drawn that is the UNION of the previous 2 shapes (Y/n)?**
- Repeat steps a to c. But this time select the **“INTERSECTION”** operation. Does it work as expected (Y/n)?
- Repeat steps a to c. But this time select the **“DIFFERENCE”** operation. Does it work as expected (Y/n)?
- Now, check the “is Filled” checkbox. (And maybe select your favorite color using the color picker!). Repeat steps a to c for the **“XOR”** operation. Does the shape drawn represent the XOR (**either in A or B but not both**) operation on the two shapes you drew (Y/n)?

10. Bucket Fill tool:

This tool reminds me of the MS Paint labs in my primary school ;). (Maybe it will remind you too!)

- Select the bucket tool and hover your mouse over the canvas. Do you **see a bucket icon following your mouse pointer** (Y/n)?
- Now, take your mouse pointer inside a closed shape and click. Does the enclosed area get filled by the selected Fill color (Y/n)?
- Repeat step b for different fills and different closed shapes.

- d. Try **clicking in an open shape**. Does the whole background area get filled (Y/n)?

11. **Pen tool (Editable Shape tool):**

- a. Plot some points on the canvas. Click the edit button. Do the **vertices get highlighted** (Y/n)?
- b. Take your mouse near one of the vertices and **try slowly dragging that point to a different location**. Does it work (Y/n)?
- c. Plot some more vertices. This time try clicking the **undo button to remove the last inserted vertex**. Click the **finish button**. Does everything work as expected?

Some UX queries:

1. How would your experience have changed if there was *no status bar*?

Ans.

2. Which tool has the *best user experience* in your opinion?

Ans.

Suggestions for improvement:

Write here...

After you have finished drawing something using all the tools, please **save the image and send it (email:)** to me along with this file.

Thank you very much for testing my project.

I have completed all the tests given above.

Name of tester:

Date of testing: