**Part 1 – Ethics**

I confirm that I have read and understood the *Massey Code of Ethical Conduct for Research*, *Teaching and Evaluations involving Human Participants*. Both of my participants are aged 16 years or older. All completed ethics documents (ethical compliance statement, low-risk checklist, information sheet, and consent forms) are filed in the “Ethics documents” folder.

**Part 2 – Usability evaluation plan**

**• Goal**

Assess how easy it is for new users to create sketches using the Sketchpad website. Will they be able to successfully use the Crop & Resize, Text, Pen, Fill Vector, Star, Clipart tools. Also, will new users be able to save a sketch or export an existing one.

**• Questions**

* How effectively can you use drawing tools?
* Can users find the eraser in the current site layout?
* Will they be able to save and export the sketch without prompting?
* Will they be able to use stickers and drawing tools using layers?

**• Equipment/Materials/Environment**

* **Equipment**

1. Laptop
2. Microphone
3. OBS – Screen and audio recording
4. Phone – Using a stopwatch and digital touch sheet

* **Materials**

1. Consent form (oner per participant)
2. Task sheet (oner per participant)
3. Paper for notes – I will leave notes on how successfully or unsuccessfully users were able to use the website.
4. Pens, highlighter

* **Environment**

A quiet, well-lit room with two chairs and a table where I'll place my laptop. Stable and good Wi-Fi.

**• Participants**

**Ideal Participants:**

* Age 16-45, mixed gender
* Basic computer literacy; no previous experience with Sketchpad
* Students and professionals who need to use such a tool in their work or studies

**• Tasks**

Participants must complete six tasks. Each task has success criteria and a time limit for independent completion (until help is offered).

* **Task 1 – Freehand drawing (Pencil)**
* **Instruction:** “Select the pencil, change the stroke color to read and draw a start shape”
* **Success criteria**: Pencil selected, red star visible on canvas
* **Time limit before help**: 2 minutes
* **Task 2 – Select and Resize tools**
* **Instruction:** “Select a star and increase or decrease its size depending on the original size of the star”
* **Success criteria**: Start selected and changed star size
* **Time limit before help**: 2 minutes
* **Task 3 – Eraser usage**
* **Instruction:** “Switch to the eraser and erase one edge of the star”
* **Success criteria**: The edge of the star has been successfully erased
* **Time limit before help**: 3 minutes
* **Task 4 – Increase the size of the star line**
* **Instruction:** “Select a star and increase the star line size to your choice”
* **Success criteria**: The star line size has been increased
* **Time limit before help**: 3 minutes
* **Task 5 – Layers, drawing tools, stickers**
* **Instruction:** “Select any other drawing tool. Draw any two objects. Can use a sticker and place one object behind the star and the other in front. That is, use different layers.”
* **Success criteria**: One object is behind the star; the other is in front
* **Time limit before help**: 5 minutes
* **Task 6 – Export**
* **Instruction:** “Save the image to your computer in .png format”
* **Success criteria**: The file has been successfully saved in .png format
* **Time limit before help**: 3 minutes

**• Test procedure**

**• Data to be collected**

* **Quantitative**
* Task completion times
* Success rates per task (Y/N), assistance required (Y/N)
* SUS total score
* **Qualitative**
* Post-session interview - *What was the most confusing? What would you change about the interface?*
* **Recording**
* Screen capture + audio per session
* Signed consent forms

**• Data analysis**

**Part 3 – Usability pilot study**

**Part 4 – Heuristic evaluation**