Proposal

By
Maxime Gagnon-Leger (40179622)

CART 253
– Section A –
Creative Computation 1

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Pippin Barr

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Proposal document

My final project will consist of a secret lab escape puzzle game.

The user volunteers for a medical research study.

The user is then confronted with a test tube emitting gas bubbles (Array of bubbles). Breathing this dangerous gas puts him in a state of coma.

The user wakes up in a lab like environment.
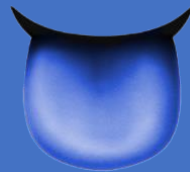
He is given a note with instructions:
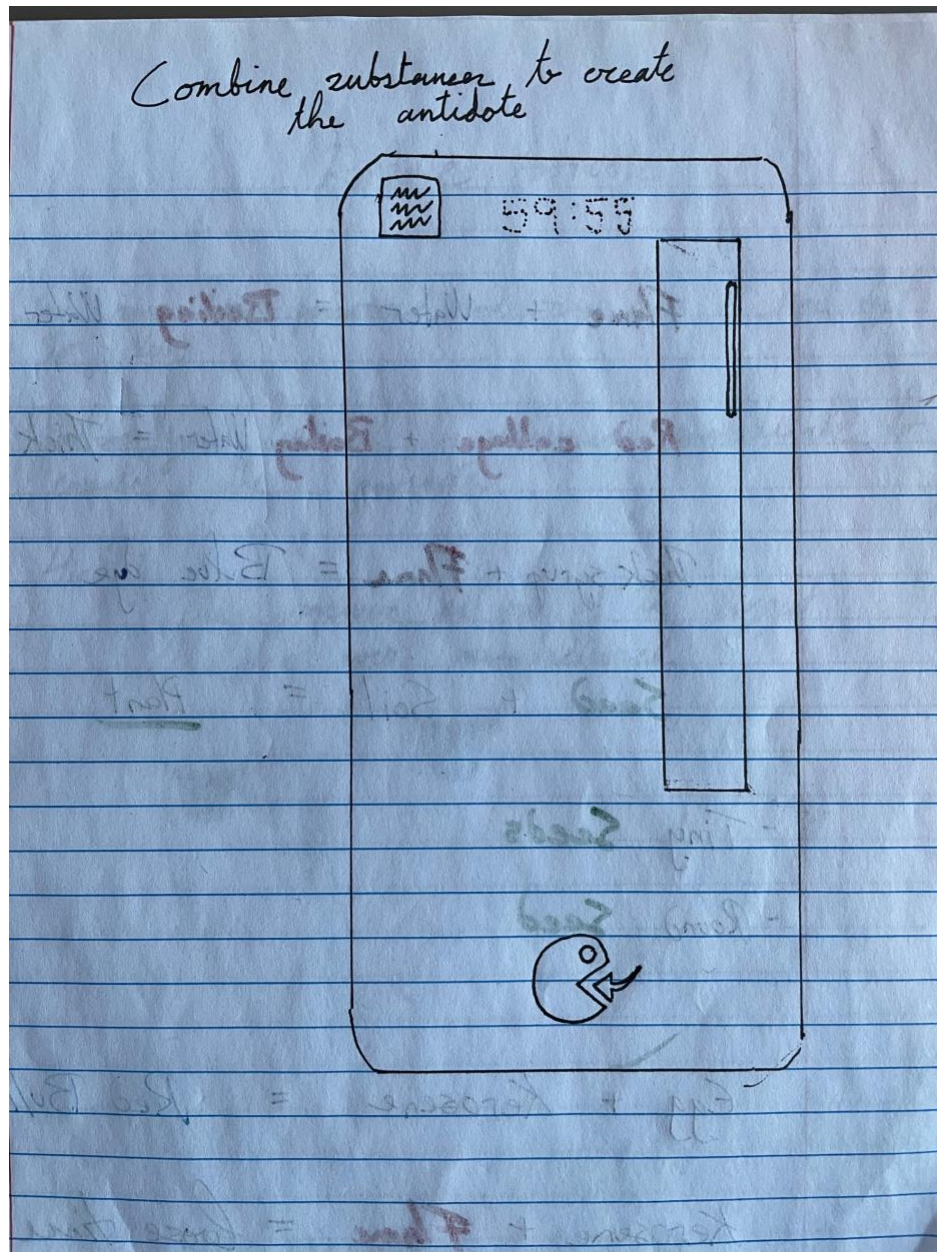
Antidote Riddle

You have been poisoned and only have X time left to live.

Before you are all the necessary ingredients to create the anecdote you desperately need.

Combine the resources and take the antidote.

You are looking for one of the biggest lie ever manufactured: One that rivals the likes of Santa Claus.

There is a countdown time display for both time pressure and as an indicator of your final score. Using: https://editor.p5js.org/marynotari/sketches/S1T2ZTMp-

In the upper left corner of the canvas, there is a button which allows you to view the note, at any given time.

On the right, a list of usable elements is displayed. Elements can be dragged onto the lab area where they can create new elements upon combination. An element will combine with another, if they are compatible and if half of the lengths of their diameters overlap.

At the bottom of the canvas aligned with the centre, a feed-me icon is displayed. The goal is to drag and drop the antidote onto the feed-me icon. At this point, display: Final score. Note that dragging an unwanted element onto the feed-me icon will deduce time from the counter.

Elements:

- Flame (-X sec)
- water
- Raspberry seed
- cabbage seed
- soil (-X sec)
- egg
- kerosene (-X sec)

Combinations:

Flame + Water = Boiling water

Red cabbage plant + Boiling water = thick syrup

thick syrup + flame = blue dye

Cabbage seed + soil = Red Cabbage sprout

Raspberry seed + soil = Raspberry sprout

Red Cabbage sprout + Red Bull = Red Cabbage plant

Raspberry sprout + Red Bull = Raspberry plant

Egg + kerosene = Red Bull

Egg + flame = fried egg

Raspberry plant + blue dye = blue Raspberry (Antidote)

I expect a challenge in building this simulation into an object-oriented programming format where the encapsulated elements all share a common inheritance base.

Working with sound, I am expected to have sound effects upon merging two elements and upon dragging and dropping a consumable element on the feed-me icon.