Algorithm and Programming

Lecturer: Jude Joseph Lamug Martinez, MCS

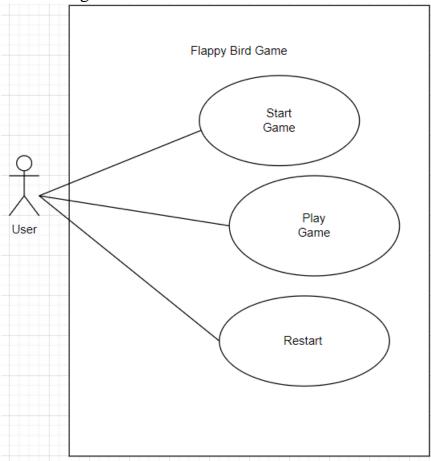
By: Louis Ruby Elsalim (2602185431)

A. Project Documentation

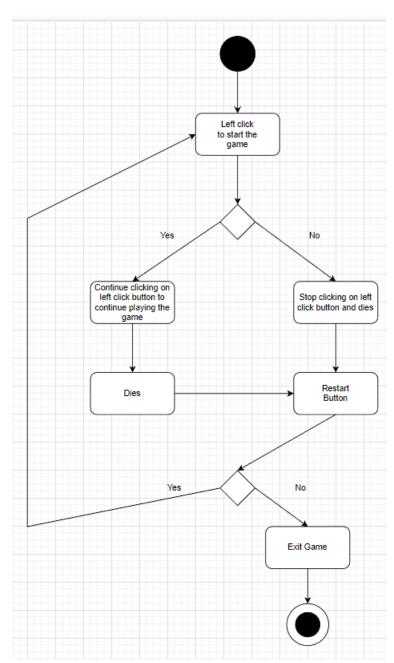
1. Brief Description

Flappy bird is a popular game back in 2013, it went viral when players starts to turn it into a meme, where players are getting frustrated over the game. Even with a very simple concept, it was once a top 10 game in the world. Sadly, they take down the game back in 2014. Basically, the concept of the game is that you have to make the bird pass through the pipes in order to continue playing the game. The bird ascends each time you clicked on the screen or a mouse. Without clicking the screen or the mouse, the effects of gravity are applied to the bird. Each time the bird passes one pipe, you subsequently earn one point. The game ends once the bird collides with the pipe. You have to restart the game and lose all your hard-earned points.

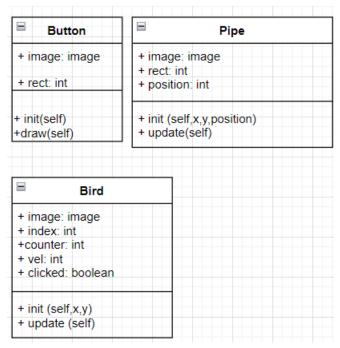
2. Use-Case Diagram



3. Activity Diagram



4. Class Diagram



5. Modules

- Pygame: set of python modules set for writing video games.
- * from pygame.locals: copies all names in pygame.locals into your current namespace.
- Random: built in module used for randomize number.

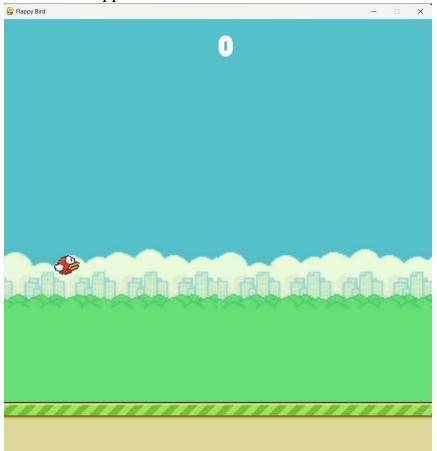
6. Essential Algorithms

- With the help of some classes and functions, this are the algorithms to run the game.

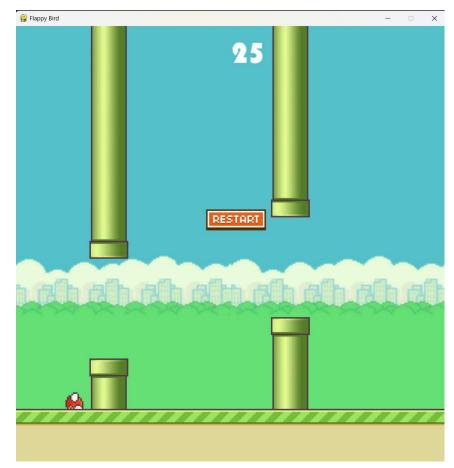
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7. Screenshots of application



- Before the game starts



- When the game ends

8. Lesson learned/Reflection

- Within the span of these few months doing this project, I have learnt a lot regarding pygame and python such as the built-in functions and a better grasp of the loops. I also realise that I have poor time management, I felt pressured around the deadline of the submission date since I still have so many works, I have to work on.