Architectural Design

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Option 1 - Instructions:

* In our pygame project the objective of the game is for the user to play as an extraterrestrial being attempting to return home before the sun becomes a red giant, and collapses into a stellar nebula causing the solar system to cease to exist. There will be a timer that informs you how long you have before this occurs. You have time to complete the game before the timer hits 0, and if you don’t you lose the game and can try again. The instructions will clarify the controls in the game in order to move.

Option 2 - Lesson:

* This option mainly teaches the user about the solar system. It teaches them about the planets and their features, the asteroid belt, star evolution, and solar nebula theory. The game implements this by showing the different stages of the sun as well as having obstacles which are taught in the lesson. The game takes place in our solar system so you can identify the different planets.

Option 3 - Game:

* Background information:
  + You are an extraterrestrial being from a different solar system. You came to our solar system to explore each of our 8 planets. You explored all the planets, but forgot a little fuel in each of the planets. You are currently at mercury. The problem is the sun is beginning to expand into a red giant. This causes it to consume planets in its path. Escape to the nearest planet to collect fuel, and move on to the next planet before the sun consumes you.
* Mercury:
* Venus:
* Earth:
* Mars:
* Planetary Nebula:
* Jupiter
* Saturn:
* Uranus:
* Neptune:

Option 4 - Quiz (Multiple Choice):

* When this option is chosen the user will take a short quiz. This quiz will be based on the information in the lesson. At the end of the quiz the user will receive their score in percentage.
  + Question 1:
  + Question 2:
  + Question 3:
  + Question 4:
  + Question 5:

Option 5 - Quit:

* After finishing the game you will be redirected to the main menu where you can choose other options or quit. When the user chooses to quit the program will close. Before the program completely closes there will be a credit page showing anything we used from the internet. This can be code fragments, images, or sounds to list a few.