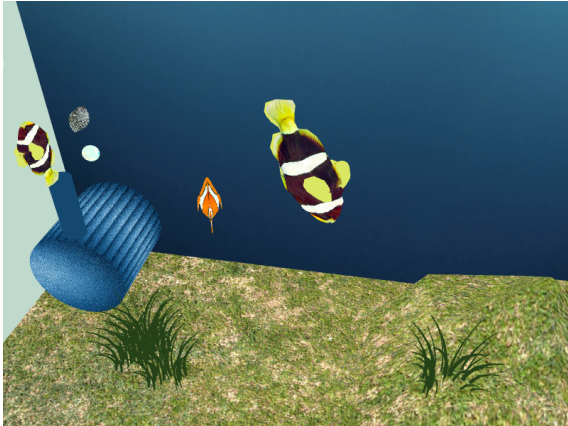# **Aquaria**

An Aquarium Simulator by Sai Teja Reddy Moolamalla 201564086

Inorder to start the game –

- In the terminal go to the home directory of the source code.
- Initialize a simple python server using – "`python –m SimpleHTTPServer`" and then go to the site http://127.0.0.1:8000/ in your browser to start playing the game.

Sample Image –

Instructions to play the game are mentioned in the website once opened and are -

- Firstly, select an image for the skybox and load into the game.
- The simulator starts of with few fishes.
- The fishes move on their own.
- To change selections between fishes - use the 'F' Key.
- When a fish has been selected you can control the movement of the fish using the 'W',A','S','D' keys.
- You can change between views using the 'V' Key. There are modes like :
    1. Fish Front View
    2. Third Person View
    3. Fish Eye View
    4. Move to fish position View
    5. Free Cam View
- Press the 'B' key for the selected fish to release bubbles.
- Press the 'Spacebar' for the selected fish to lay an egg.
- Eggs laid by the fish hatch in sometime to give small baby fish which grow up in time
- When no fish has been selected, press 'B' key to either raise pebbles by generating bubbles from the ground or release air into the tank using the oxygenator.
- In the free cam mode, i.e when no fish has been selected use the arrow keys and 'Z' and 'X' keys to move the camera around.
- Press the 'R' key anytime to change colors of the fish.
- Load any image at anytime after the simulator starts, to change dynamically the skybox texture.
- Whenever some fish has been selected , press the 'Q' key to kill the fish.
- There is also a shark in the simulator. Discover it on your own :P
- When a fish has been selected you can also use mouse drag to control / steer the fish.
- When no fish has been selected you can press the left mouse button to randomly place food inside the aquarium which the fish will competitively try to eat.
- Also, when no fish has been selected you can press the right mouse button to randomly release bubbles.
- There is seaweed and pebbles at the bottom of the aquarium
- You can find - a ship at the bottom of the aquarium , also a tower and an oxygenator.
- The seaweed periodically wave and the ground is countoured with a green texture.
- You can always after the start of the simulator take a screenshot by clicking on 'Take Screenshot' button.