CIM 540/640

Section 4F/4H

Assignment Wk 7

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Midterm Report:

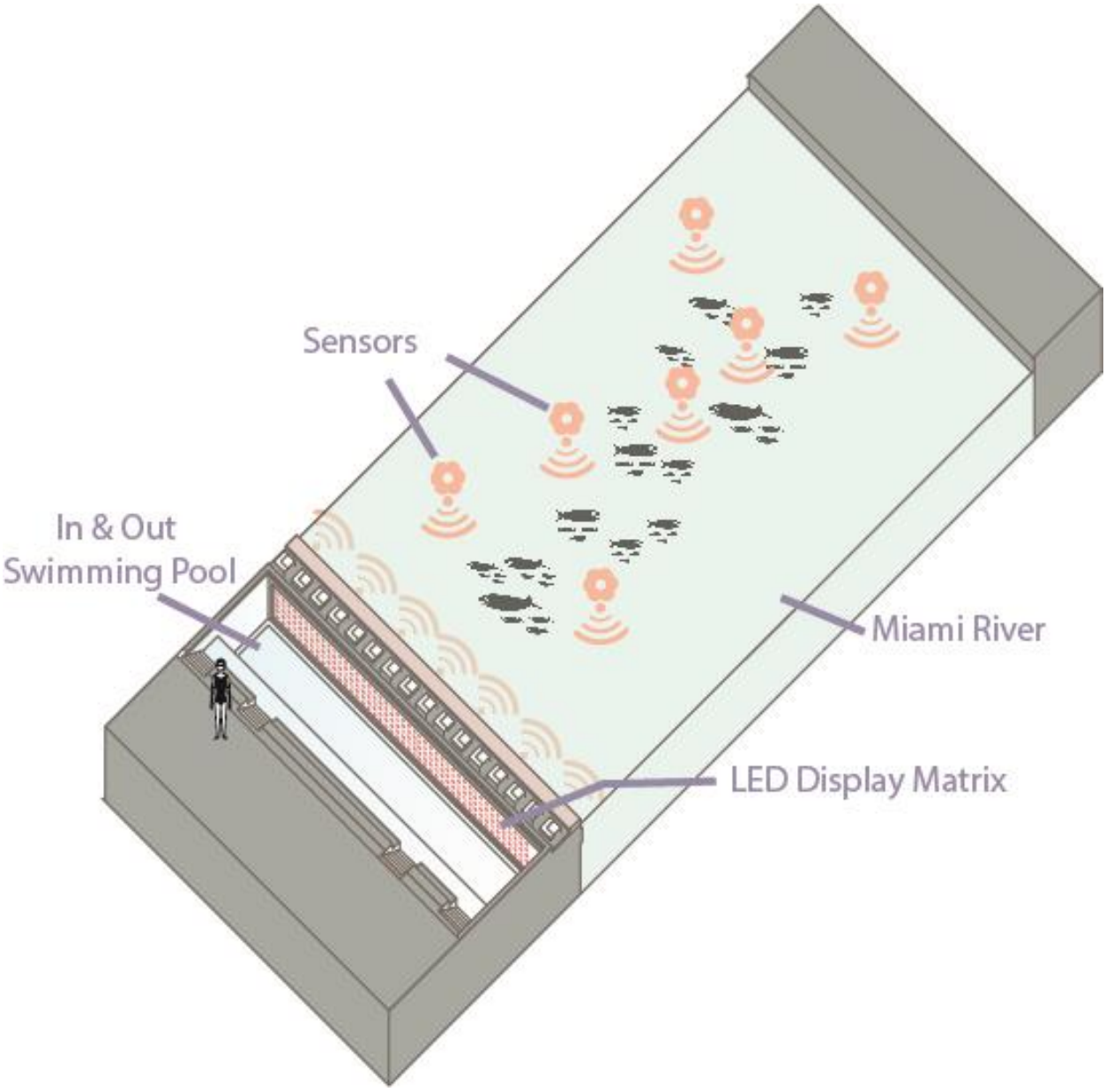
Project Name: IN & OUT

Location: Miami River

Description: Public Swimming pool lighting installation which trying to evoke community attention to water quality and sea level rise.

Mind Map:

Diagram:


Sensors
In & Out
Swimming Pool
Miami River
LED Display Matrix

Code Plan:

1: Run distance Sensor

2: If distance is smaller than x

3: Send fish's movement and position information to web (P5js)

4: P5JS generates real times images of human movement according to fish flocks' pattern.

5: P5Js send information to LED Matrix to turn on related LED lights (act as pixies)

6: when program's running time >i, turn on the sensor inside the swimming pool

7: sensors gathering the information of human's potion and movement,

8: Arduino send human's data to P5JS

9: P5Js generate fish image and send it to arduino

10: Arduino display those image.

Note:

Map the river to your model and screen

UI slider

School of fish vs single fish?

Input (Amount [multi-Senor on, Speed, Distance)

Output (Population, Size, Color)

Switching sensor btw the one swimming pool and the river. Swimmers movement also can be captured and displayed.