Football Stadium

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The Idea

Th main idea behind this project is to create a stadium and built in some lights which goes "ON" or "OFF" as per the lights hits the sensor and to built-in some speaker to make some crowd noise such that a game is going on.

Components Needed

1. Lights

The lights are going to be attached to the hub to provide illumination to the stadium.
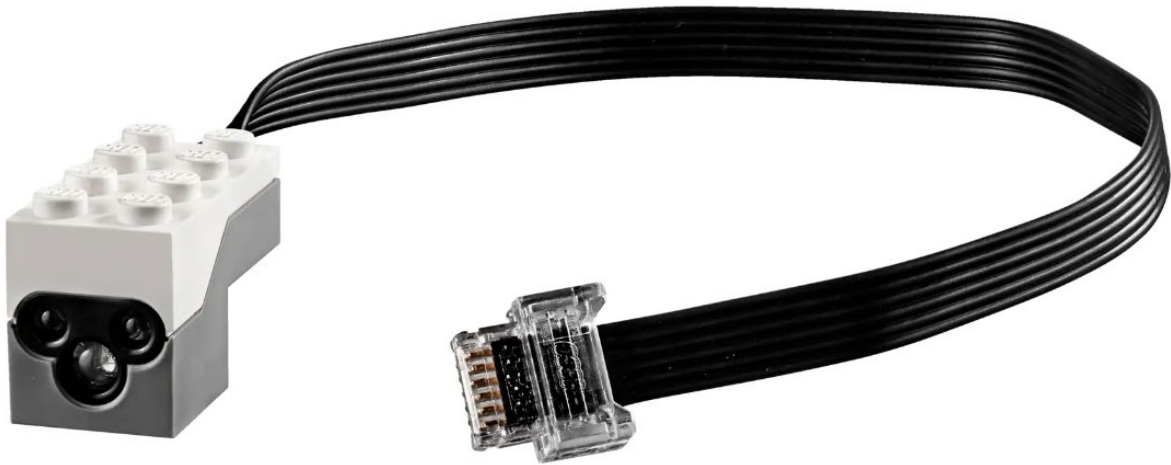
2. A hub

This is the brains of whole contraptions; the hub would be plugged in to the computer while

will send the code to the hub which will process and send it to the lights and components.
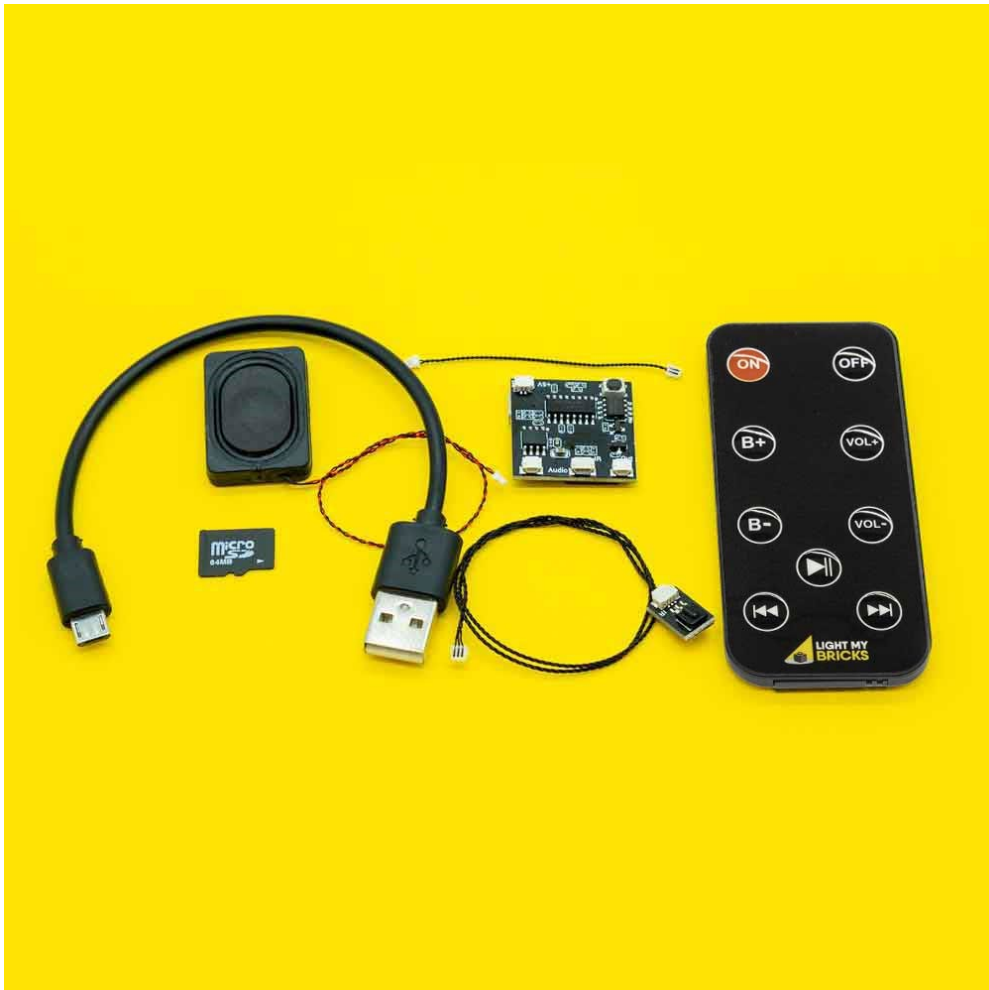
3. Color and distance sensor

This would be used as a daylight sensor which will constantly calculate the brightness in nits.

When the nits dropped below 150 then the lights will turn on.

4. Remote Control and Sound Kit

This will be plugged into the hub and used to be create ambient noise at set interval of time.

Pseudocode

1. **For Lights**

IF (sensor > 150 nits) THEN

   Turn_lights = ON

ELSE

   Turn_lights = OFF

2. **Speaker**

For Time = 3 hours + Prev_Time

Turn_Speaker = ON

Run Scripts(2 min)

Then Run the loop again in every 3 hours.