Mood lamp

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# Overview

## Project Background and Description

LED light(s) on a bread board with a lamp shade, connected to an Arduino, controlled by an app or website by the user.

## Project Description

A program, written in Arduino IDE, will turn on a certain light corresponding the user’s mood. The user can choose their mood from an app/website which will be linked to the program code. Each mood will be connected to different colours. (e.g the mood ‘happy’ is assigned to colour green in the program. The user picks the option happy on the app/website. The green light will turn on).

## Candidate Technologies/Domain

* Programming Fundamentals
* Digital Electronics
* Source Control
* Microcontroller Basics
* SBC Breakout & General IO

## Equipment

* Arduino
* LED light
* Jumper cables
* Bread board
* Resistors

-App with buttons (eg. I’m Happy)

-Light Sensor 🡺 If theres light, green light on, if it’s dark red light on

-Temp sensor 🡺 If it’s bright and hot green light on, if it’s cold and dark red light on

-Sound sensor 🡺 If there’s high level of noise green light, low light level of light red light on

Happy 🡺 Green light 🡺 bright, noisy, high temperature OR dark, noisy, high temperature

Sleepy 🡺 Blue light 🡺 dark, quiet, low temperature, OR dark, quiet

Angry 🡺 Red light 🡺 dark, noisy, high temperature