

# CONTROLLING AN ARDUINO BOARD FROM A WEBSITE

Kanishkan M S,ME19B192

01/05/2020

## Project Aim

To show how web app can be used to control components of Electronic setup. Here we demonstrate using a simple example of controlling LED brightness

## Project description:

1. Ability: Slider in web controls brightness of LED
2. Hardwares to be used
  - (a) Arduino Board(Uno)
  - (b) LED
3. Software to be used
  - (a) Arduino IDE
  - (b) Node.js
4. Approach
  - (a) Necessary circuit is made. In this case a simple LED circuit
  - (b) Node.js program with necessary libraries (like express, serial port) needs to be written to send info in serial port
  - (c) Arduino code is uploaded to get information from serial port
  - (d) Thus the change made in web app by user results in change in components of the board. In this case, brightness of LED is controlled from web

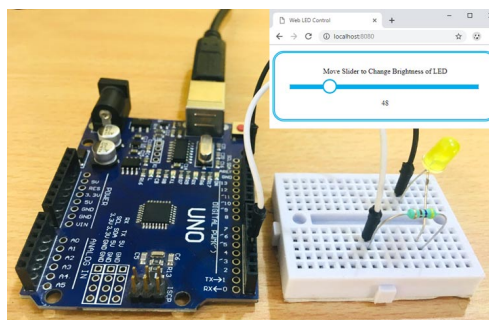


Figure 1: Setup