Configure the mobile app for controlling motor using buttons

Team id	PNT2022TMID13519
Project title	Real time river water quality monitoring and control system
Maximum marks	4 marks

In this system DC motor controller by android is developed to control the speed of the dc motor in both clockwise and anticlockwise direction.This dc motor is interfaced with 8051 micro controller.A bluetooth modem is used to receive the direction commands.LCD display is used to show the status and speed of the dc motor.Thus the speed of the motor can be increased or decreased in clockwise or anticlockwise direction with the help of the android application.

Rectifier

Regulator

Transformer

5v

12v

VI   VO

GND

**Bluetooth
Device**

19 XTAL1   P0.0/AD0 39
                             P0.1/AD1 38
                             P0.2/AD2 37
18 XTAL2   P0.3/AD3 36
                             P0.4/AD4 35
                             P0.5/AD5 34
                             P0.6/AD6 33
9   RST   P0.7/AD7 32

                             P2.0/A8   21
                             P2.1/A9   22
                             P2.2/A10 23
29 PSEN   P2.3/A11 24
30 ALE   P2.4/A12 25
31 EA   P2.5/A13 26
                             P2.6/A14 27
                             P2.7/A15 28

1   P1.0/T2   P3.0/RXD 10
2   P1.1/T2EX   P3.1/TXD 11
3   P1.2   P3.2/INT0 12
4   P1.3   P3.3/INT1 13
5   P1.4   P3.4/T0   14
6   P1.5   P3.5/T1   15
7   P1.6   P3.6/WR   16
8   P1.7   P3.7/RD   17

8051 SERIES MC

**Android
Application
Device**

IN1   VCC   VS
IN2
IN3
IN4   OUT1 2
ENA   OUT2 3
ENB
                            OUT3 13
SENSA   OUT4 14
SENSB GND

Motor Driver

Motor