

BLUETOOTH BASED LED NOTICE BOARD

AIM:

Design and Development of Bluetooth based LED notice board

PURPOSE:

LED notice boards are widely used for information display. We can see in railway stations, bus stations, Highway speed indications and many more applications. LED boards are different from normal screens. Normal display screens have high resolution but can't visible from long distance. But LED notice boards can visible from far distance. Here we want to design Bluetooth based LED notice board using Arudino.

DESCRIPTION:

This project includes Bluetooth (HC-05) module, which is connected to Arduino through UART interface. LED notice board connected to Arudino UART.

WORKING:

In this project we can interface LED display to Arduino. LED display has UART provision and we can edit data from UART port. Arduino sends commands and data to UART port. It has android app with text box facility. In textbox user can give data which he wants to scroll on LED display. Arduino get the data from Bluetooth and send to LED board. LED board displays data along with date and time.

TECHNICAL SPECIFICATIONS:

HARDWARE:

Microcontroller	:	Arduino Uno
Crystal	:	16 MHz
LCD	:	16X2 LCD
Bluetooth	:	HC-05
LED Display	:	UART based
Power Source	:	12v 2 amp Adaptor

SOFTWARE:

Arduino IDE
Proteus based circuit diagram

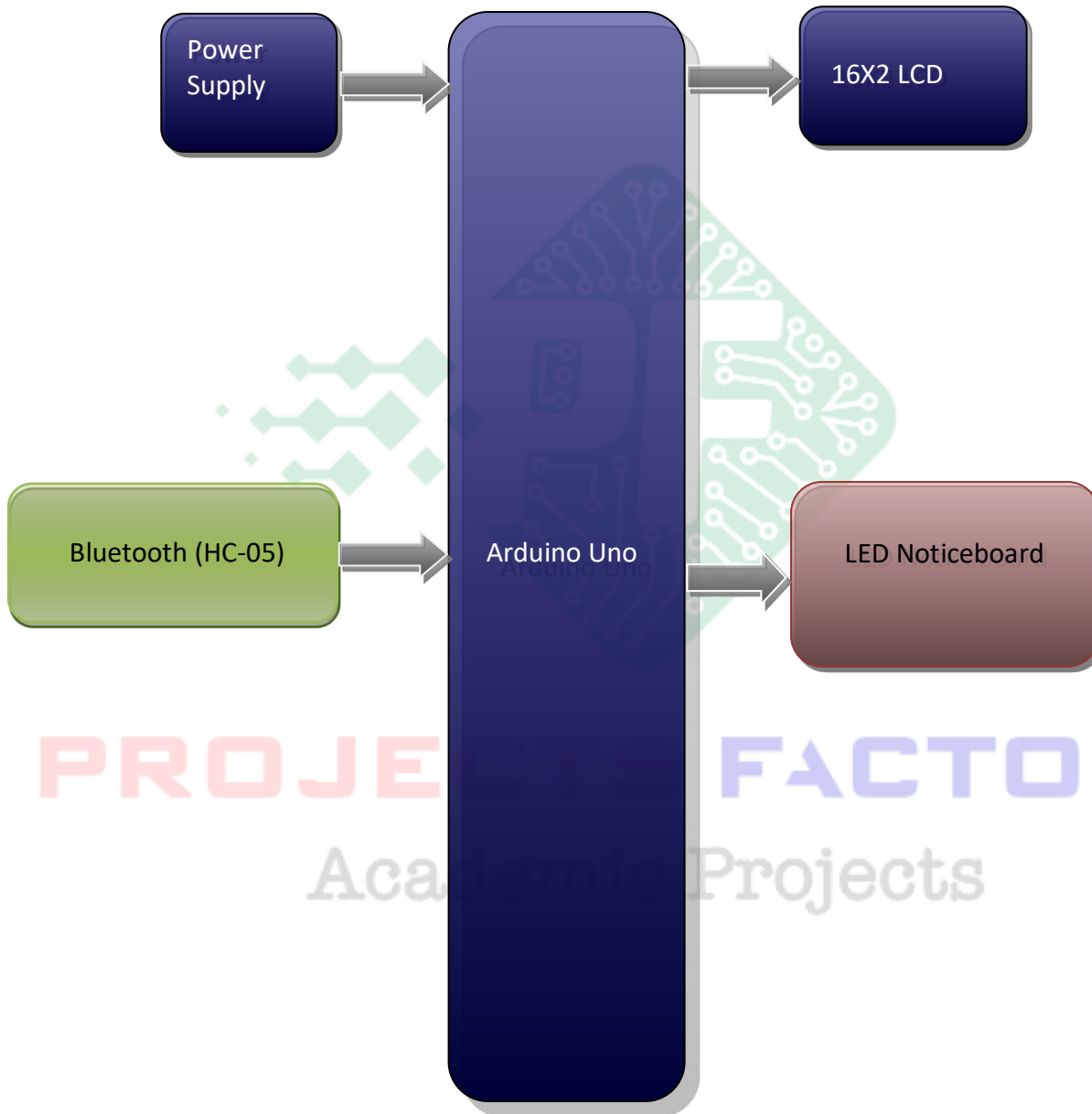
APPLICATIONS:

- Sign board Applications
- Advertising Applications

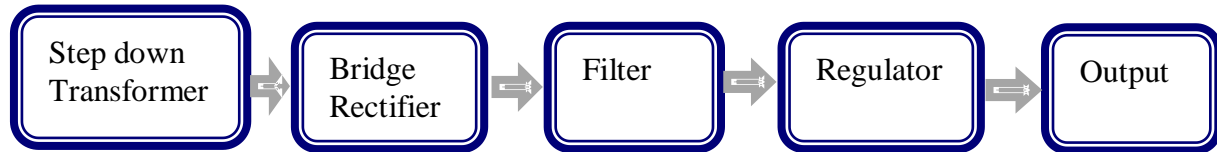


PROJECTS FACTORY
Academic Projects

BLOCK DIAGRAM:



POWER SUPPLY BLOCKDIAGRAM:



INTERFACES COVERED:

- We have covered Bluetooth (HC-05) module interfacing
- UART based LED notice board interface.



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