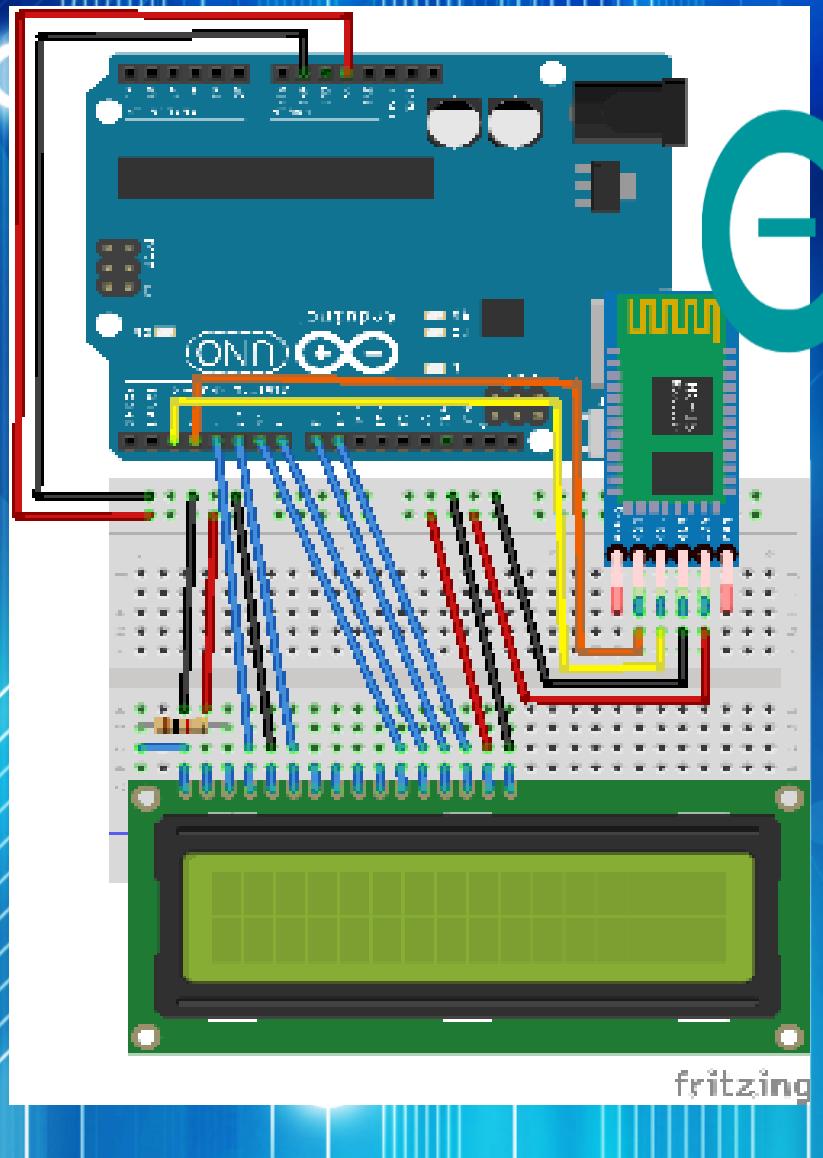


# WIRELESS DIGITAL NOTICE BOARD

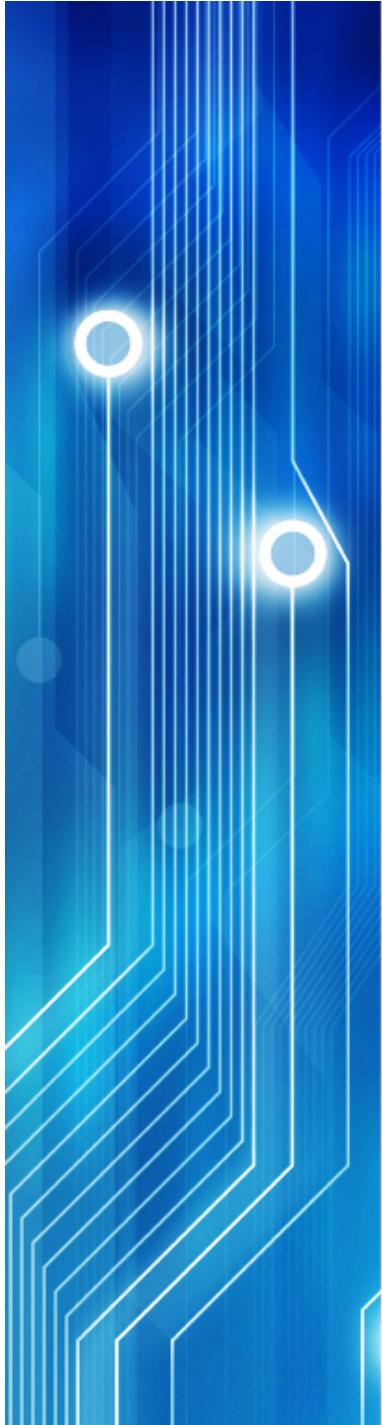


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EL 359: Paper IX : Practical  
course III(Project)

# Wireless Digital Notice Board Display Based on Arduino and Bluetooth Technology

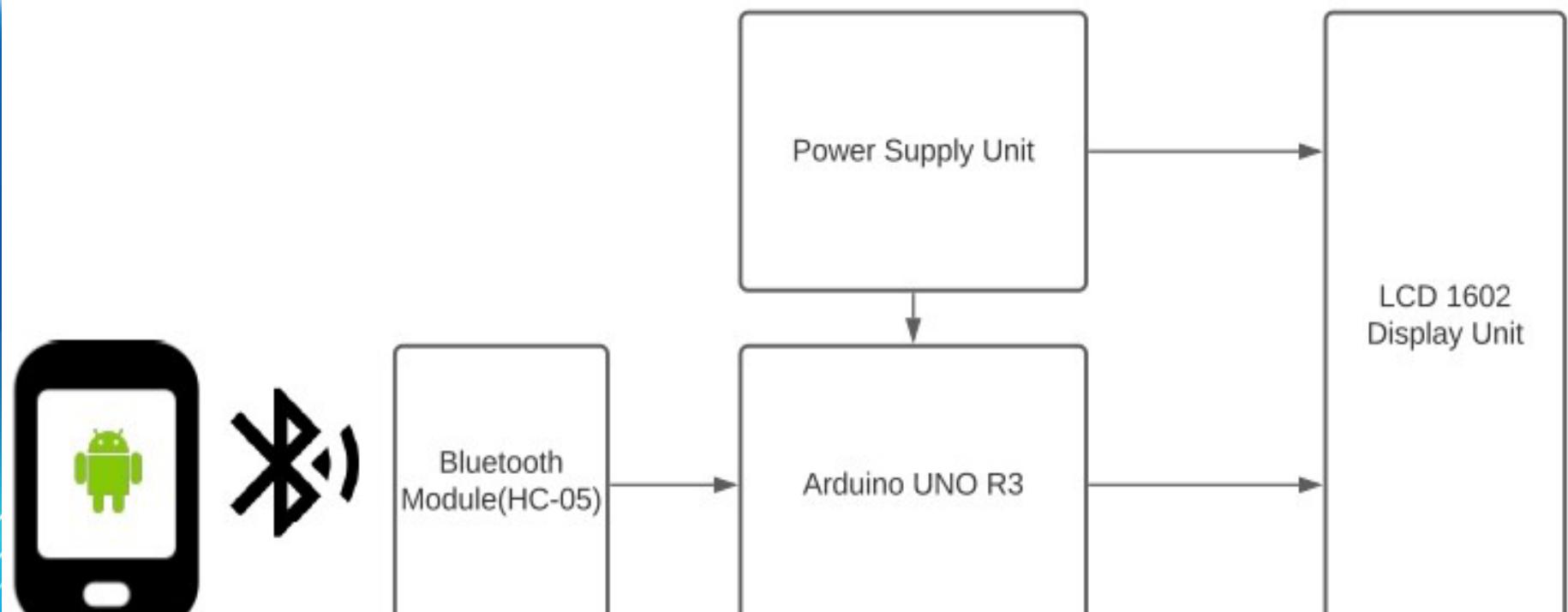




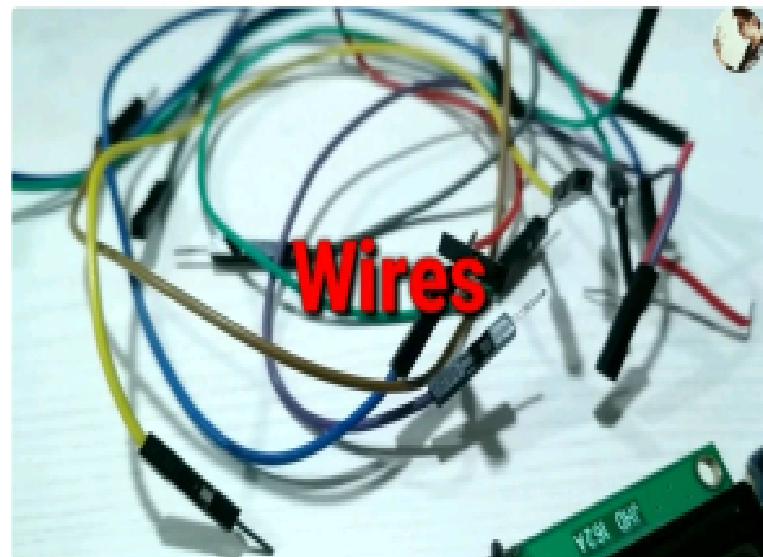
# INTRODUCTION

- Wireless technology has made tremendous progress over the past few years. The ever-increasing use of wireless networks serves as an indicator of the progress in the area of wireless networks. As a means of communication, notice boards are widely popular with its applications ranging from schools, colleges, hospitals to major organizations. Notice boards effectively tackle the global problem of deforestation by conveying messages at large without the use of paper. The design of SMS driven automatic display Board which can replace the currently used programmable electronic display and conventional notice board.

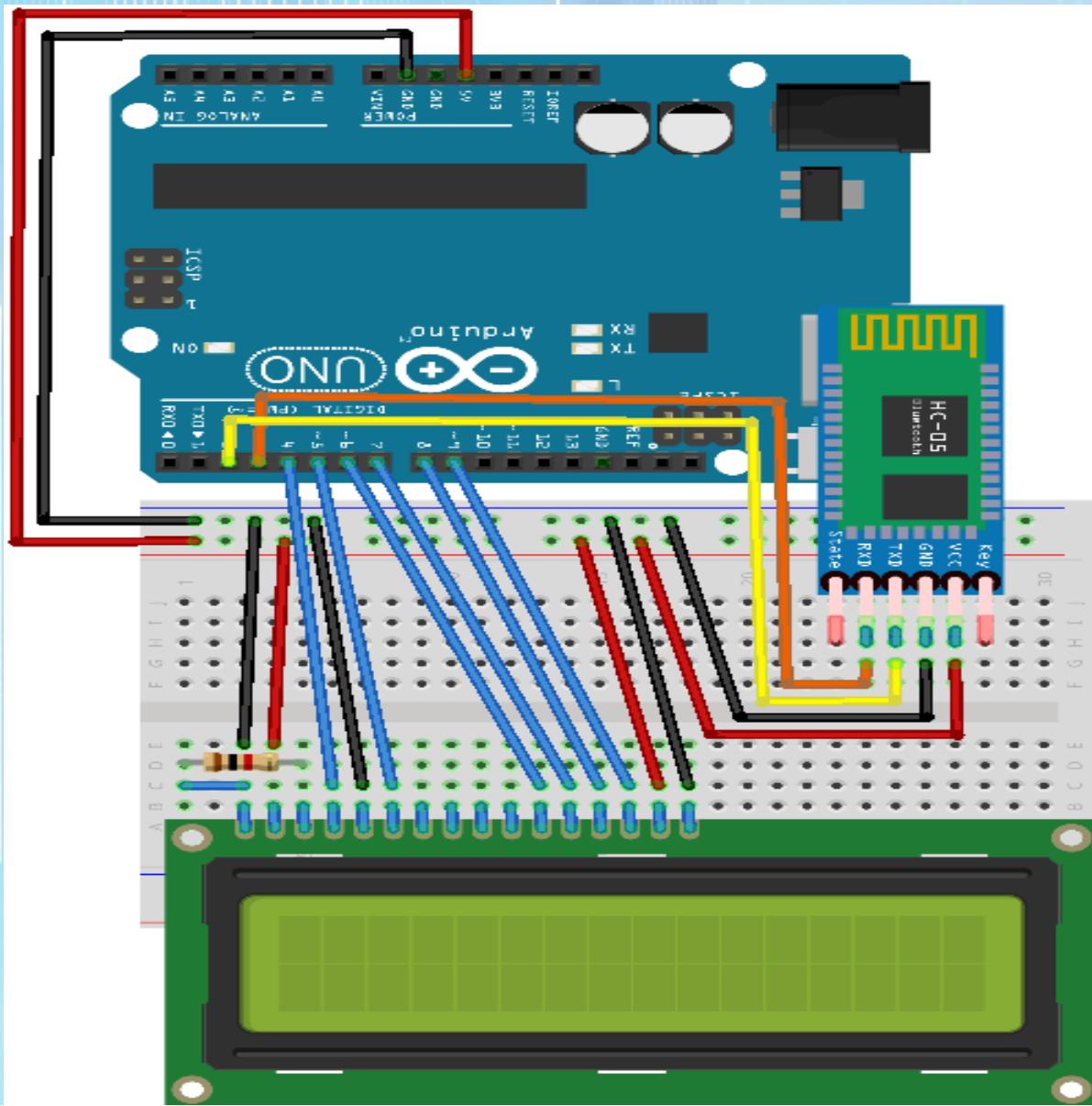
# BLOCK DIAGRAM

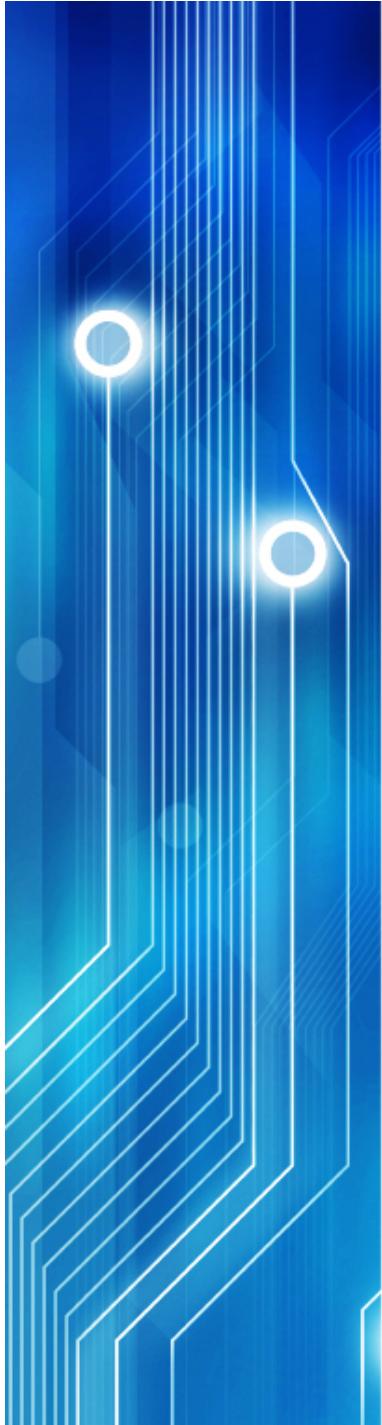


# COMPONENT



# CIRCUIT DIAGRAM( CONNECTION DIAGRAM)

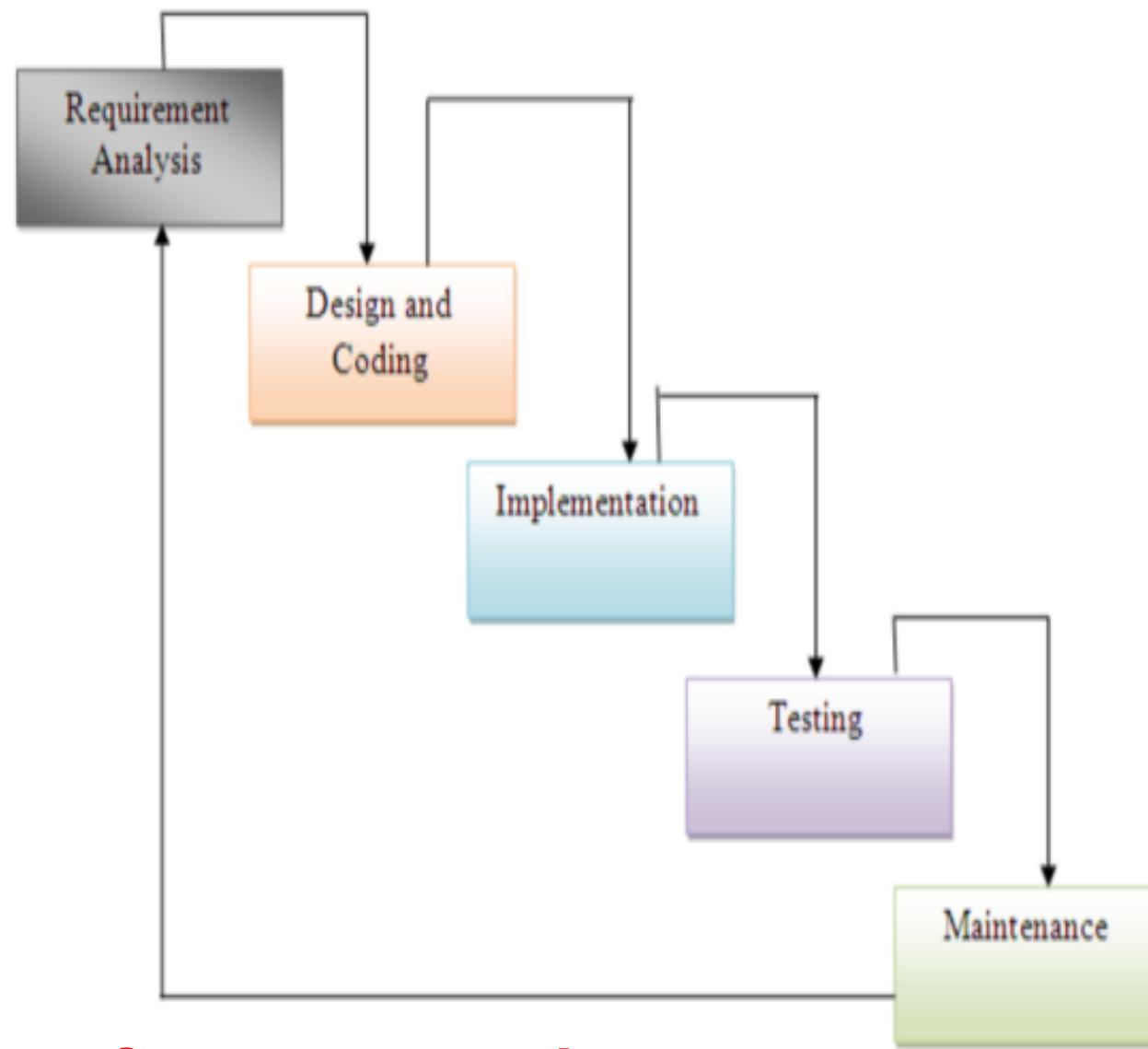




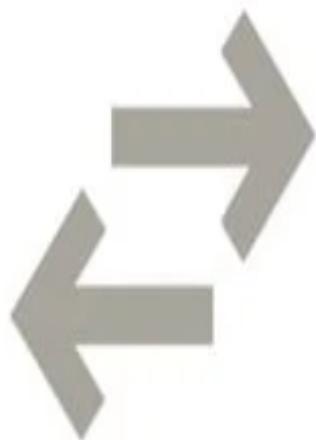
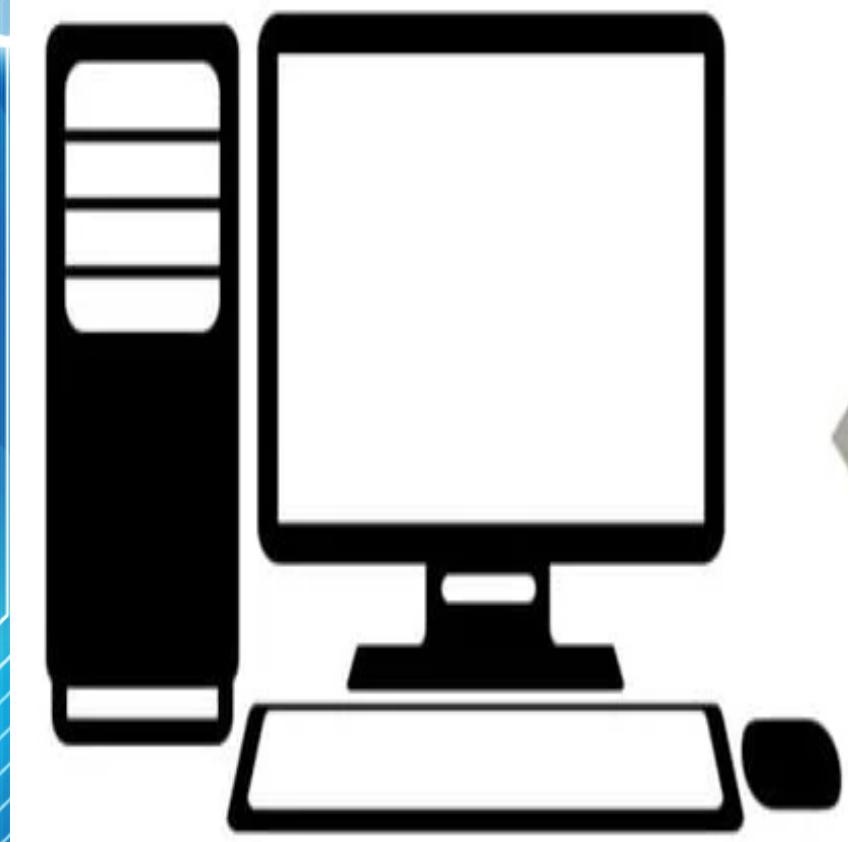
# WORKING

- At first, LCD will display “DISPLAY: WELCOME TO NOTICE BOARD.” And after some delay,LCD will display the timetable continuously. If an authorise user wants to display some notice on this notice oard then he/she will first pair his device to this module and after write a message in "BT Terminal" mobile application. Ater the message has been send by user, bluetooth module will receive it and it sends this message to aduino Board serially.As the ATMega 328P microcontroller receives this message, it will display the information 16x2 LCD display.If the message haven"t received from BT Terminal, the bluetooth module will continuously search for message to receive. And the message will remain displayed on the LCD display.

# WATERFALL MODEL



## Software Development Process



# APPLICATION

- \* The proposed model is used in bus stations, railway stations, parks, etc. to display the messages wirelessly.
- \* This Project can also be used in colleges and organizations.
- \* The multi terminal is intended for simultaneous management of multiple accounts, such as WIFI and Bluetooth for which is mostly helpful for transmitting message to the display.

## CONCLUSION

As the technology is advancing every day the display board systems are moving from Normal hand writing display to digit display. Further to Wireless display units. This paper develops a photo type laboratory model wireless notice board system with BLUETOOTH MODULE connected to it, which displays the desired message of the user in a most populated or crowded places. This proposed system has many upcoming applications in educational institutions and organizations, crime prevention, traffic management, railways, advertisements etc. Been user friendly, long range and faster means of conveying information are major bolsters for this application. By using this proposed methodology we can enhance the security system and also make awareness of the emergency situations and avoid many danger.



## FUTURE ENHANCEMENT

Robots can be controlled in a similar fashion by sending the commands to the robots. These commands are read by using AT-WF commands and appropriate action is taken. This can be used for spy robots at distant locations, utilized by the military to monitor movement of enemy troops.





# Thank You!

