

IVRS SYSTEM USING DTMF

DESCRIPTION:

This project is aimed to implement the (IVRS) Interactive Voice Response System using DTMF technology under the C# platform.

In This Project Some Predefined audio chunks are stored in the PC. When we call to the IVRS mobile number and when the call is established, the user can select the appropriate option by pressing the corresponding key. It will generate a complex frequency, which can be heard on the mobile placed. Hence DTMF tones will be transferred to calling mobile to the called mobile and to the PC via serial communication. A front end C# software comes into picture now which always interact with the serial port, and will analyze the corresponding tone received and plays back the respective pre recorded audio message through loud speaker. In this manner the voice response system does its operation of responding to the selected options. So by using IVRS TECHNOLOGY in college, the parents can know their children's details like attendance, marks etc.

C# is one of the good user interface platform and easier to understand and simple to Implement in nature. C# is a programming language that is designed especially for windows programming. First user has to develop the required code in VB. Then interface it with AT89S52 microcontroller which again programmed as per the requirement. This is an interesting project which uses AT89S52 microcontroller as its brain.

This project uses regulated 5V, 500mA power supply. 7805 three terminal voltage regulator is used for voltage regulation. Bridge type full wave rectifier is used to rectify the ac output of secondary of 230/12V step down transformer.

TECHNICAL SPECIFICATIONS:

HARDWARE:

Micro controller	:	AT89x series
Crystal	:	11.0592 MHz
Line driver	:	Max232
DTMF decoder		
Mobile		
Speaker		
PC		
Power supply		
Transformer	:	12V step down
Filter	:	1000uf/25V
Voltage Regulator	:	7805, 7812

SOFTWARE:

Keil IDE

UC flash

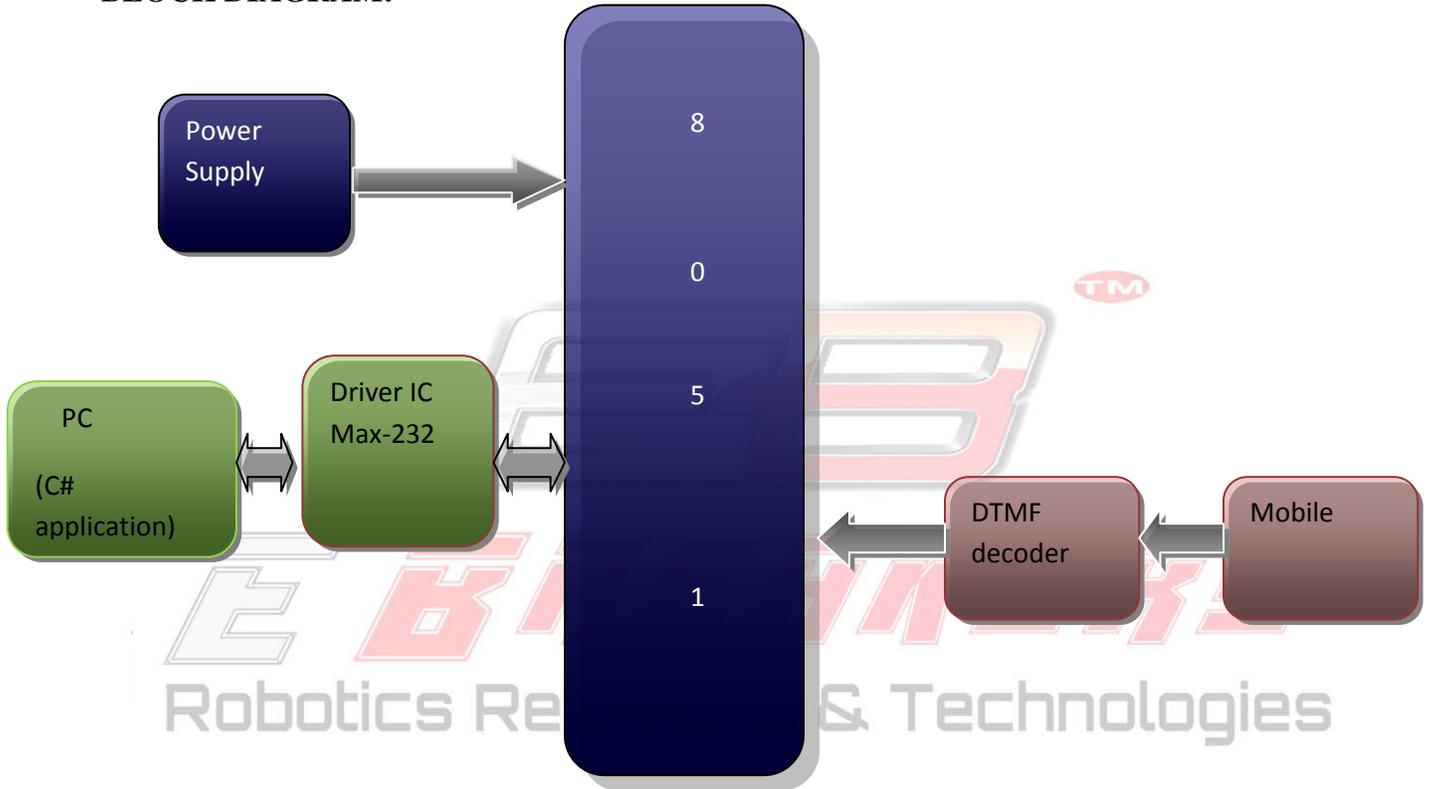
Proteus

C# .net application

APPLICATIONS:

- Mobile applications
- IVRS systems

BLOCK DIAGRAM:



POWER SUPPLY BLOCKDIAGRAM:

