CHAPTER1

INTRODUCTION

1.1 Objective

The main objective of this project was to develop a touch screen based menu display and ordering system for restaurants using touch screen sensor and graphical LCD display also using RF module. An attempt was made to design a touch screen, GLCD interface with ARM (Advanced RISC machine) LPC2148 processor using the wireless technology, such that when the user touches the touch screen, the required graphical image will be displayed on the screen. The touch screen controller is programmed to read the touch values in real time environment. In the present work, the touch data is encoded and transmitted through the RF (radio frequency) transmitter and decoded at RF receiver on the other end and is displayed on LCD through the PIC microcontroller.

The proposed touch-screen system based menu card system has capacity to overcome time delays in traditional ordering system along with this it reduces the excess manpower need in restaurant business. As it is a gadget it doesn't need leave or vacation and thus work efficiently 24x7.

- To increase the usability and user-friendliness of menu card.
- To reduce the updating of paper menus with new prices, dishes and use advanced technology
- To overcome time delays in traditional system
- To reduce the excess manpower need in any business.

1.2 Project motivation

- Improved usability and graphical interface
- Improved integrity, applicability of the user
- Reduced lengthy procedures
- Use of high technology touch screens
- Ease of access