Application Software Development

CX1h-01

Virtual Phone Homepage
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On Voice Over IP System

Caller ID Recorder
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The aim of this project is to build applications based on the technology, Voice over Internet Protocol (VoIP). VoIP is the collection of technologies that emulates and extends today’s telecommunication services to operate on the Internet. It refers to communications services including voice, facsimile, and/or voice-messaging applications. These data are transported via the Internet, rather than the Public Switched Telephone Network (PSTN). The advantage of this technology is the inexpensive telephony service. Telephony service providers use this technology for the long distance calls instead of traditional IDD service. That is why there are significant price cuts in long distance call in these few years.

VoIP connection can be classified into three types, PC-to-PC connection, Telephone-to-PC or PC-to-Telephone connection and Telephone-to-Telephone connection.

I have attempted to build two applications named **Caller ID Recorder** and **Virtual Phone Homepage**.

The **Caller ID Recorder** is application software running on the gateway computer. It used the Telephone to PC VoIP connection to retrieve incoming phone number from PSTN and stores the collected data into a database. The stored data is for further use.
The Virtual Phone Homepage enables users to have Telephone-to-PC or PC-to-Telephone connection or PC-to-PC connection. When computer users visit this homepage, they can place calls to a telephone user or another computer user. They can also receive calls from PSTN or another computer browsing the homepage.