Final Year Project (2001-2002)

Project Poster

TD3 - 01
Application Development over PDA using Bluetooth Technology

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Nowadays, the size of computer has become smaller and smaller. It is expected that more and more people will have their own PDAs. People want the PDA to be able to communicate with others. This is why wireless communication over the PDA is needed. At this stage, this technology has not yet been widened. In our project, we are going to develop an application over PDA using Bluetooth technology.

Imagine a person is walking alone on the street. Suddenly, his PDA gives a buzzing sound to alert to the fact that friends are located nearby, within ten meters.

The principle behind our project is that if one has a PDA in hand, it can automatically detect other Bluetooth devices around. Then it can get the Bluetooth addresses of these detected devices. These addresses are sent to the database of the PDA which contains a list of Bluetooth addresses and the user names of your friends. By comparing the addresses within those in the database, a user can find out if their friends are being detected. If they are, the PDA will alert the user and allow him or her to choose which friend will be requested.

If the user chooses to connect with one of the friend, he or she can then send short messages to each other to communicate.
The aim of our project was to develop an application for PDA to use Bluetooth technology to allow users to contact their friends who were within ten meters easily.

To meet this aim, we needed to write a software program entitled the CHAT program. The program included several functions - an automatic search function, a make connection function, a send data function, a store a list of friends in the PDA function and a compare function which was used to compare the Bluetooth addresses obtained with those stored in the friends list of the PDA user.
Results