

2003 TAIWAN INTERNATIONAL SCIENCE FAIR

CATEGORY : Computer Science

PROJECT TITLE : SMS Link-Interactive

AWARD : Third Award

SCHOOL : Philippine Science High School-Main

Campus

FINALISTS : Roy Vincent L.Canseco

COUNTRY : Philippines

SMS.Link-Interactive

Roy Vincent L. Canseco

SMS.Link-INTERACTIVE is a system that facilitates the exchange of information between a central computer server and a remote cellular phone user, and allows remote modification of data in the computer through SMS. A cellular phone with a GSM modem is connected to the computer physically via a data cable. A program in the computer is notified whenever the cellular phone receives new messages, processes new messages by first authenticating the user's identity, then checks for the information being asked for, as well as the changes that the user wants to be done. Information is then retrieved from a database in the computer and the appropriate changes are made. A message containing the requested information and a list of changes done is then sent to the user through SMS.

Tests were made to get the speed of the system. Accuracy tests were done to determine if the program was able to ascertain the validity of the user correctly, return the requested data, and change the specified information.

Using this system, doctors can access a patient's data and change prescriptions; teachers can correct errors in grades; clubhouse personnel can add memberships; all these from a remote location by sending a SMS request to the cellular phone connected to the server.

評語

1. Data transmission, authentication, and security has important application .
2. Good software implementation with limited improvement.