Abstract

The data of list contact number at *phone book* very important and it saved at devices's *SIM Card* or device's Memory of Hand Phone (HP) peripheral with limited of capacity storage. Then the problem is if both of this peripheral damage or lose then *phone book* data will be lose too. The existed of back up phone book methods like *V-Card*, Data Cable, *Bluetooth*, and *Infra Red*, less reliable at mobility and cost efficiency.

To solve this problem and less reliable at existed methods, trying to offer a solution to back up contacts to a server (operator), in which contacts first must be compressed in the HP (of client), then send them to server using SMS. In server, it will store in database. Client can take their file if they need it. To do that, first of all, client must registrate to server (and server will generate ID for client). It also need handling for wrong format tag of client's SMS, send file request process, get file request process, and also handling for sending and receiving file from client process. For that, designed and implemented too a protocol, call BUPB(Back Up Phone Book) protocol, that arrange format of SMS's client. In this Final Project, it tell a hipotesa that back up phone book method using BUPBClient is reduce sum up of the SMS that spent but it need more time because of compressed process than using V-Card method.

By the result of experiment for BUPBClient application by compared the output of sum up SMS that spend than V-Card method and also the time that use by BUPBClient for compress some contact and the time for it than V-Card (change contact to be V-card method before send it), it get result that proff the hipotesa. In this Final Project also designed and implemented too and BUPB Protocol and business process for it.

Keywords : *Back Up, Phone Book, V-Card, SMS Gateway, J2ME, Dynamic Markov Compression (DMC), Protocol*.