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Abstract

This paper is design a novel telecommunication administrator called SIP-based VOIP and it is based on SIP protocol to be a primitive internet telecommunication administrator system. Our new design offers quickly searching and internet managing functions by using Python database function. In the part of internet managing, our design offers several functions to client such as, telecommunication quality control、phone book database、data security and encryption、and timing function. For the communication quality control, the system will send the message through proxy server to setup host’s bandwidth and compression ration. According to this message, the host control system will adjust the ration of bandwidth and compression between host and client in order to improve the communication quality between each other. Our new design of phone book have more functions like, add、editing、search、and delete functions. It is more flexible and easier for client to using our new phone book function. In order to improve data security when in communicating, our new design is using a specific code encryption. Once the client receive the encryption data, the system will automatically decryption the data you got, therefore it can ensure the data security and safety while the data is passing through internet.
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