

ABSTRAK

Local area network (LAN) merupakan jaringan lokal di dalam sebuah gedung atau kantor yang sering digunakan untuk menghubungkan dua atau lebih komputer. Salah satu tujuan dari komputer yang saling terhubung di dalam jaringan lokal adalah untuk memiliki sarana komunikasi dan mempermudah proses distribusi informasi.

Tetapi terkadang saat seorang *user* yang terhubung dalam jaringan lokal hendak mengkomunikasikan suatu data yang sedang dikerjakannya kepada orang lain yang berada di dalam jaringan lokal yang sama, *user* tersebut mencari atau menemui orang yang bersangkutan secara manual. Atau saat *user* memerlukan suatu *file* yang berada di komputer lain, *user* berpindah tempat kerja ke komputer dimana *file* tersebut berada. Masih ada sebagian pengguna komputer yang terhubung di dalam jaringan lokal yang belum memanfaatkan keuntungan dari koneksi LAN.

Untuk itu dikembangkan sebuah aplikasi *Local Area Network Messenger*. Aplikasi ini dilengkapi dengan empat buah fitur utama yaitu *instant message*, *voice call*, *screen sharing* dan *file transfer*. Pada fitur *instant message* *user* dapat saling berkirim pesan teks. Fitur *voice call* memungkinkan *user* untuk melakukan komunikasi suara dengan *user* lain. Melalui fitur *screen sharing* *user* dapat melihat aktivitas *screen* dari *user* lain. Pada fitur *file transfer*, *user* dapat mengirimkan *multiple file* kepada *multiple user* di dalam jaringan.

Fitur – fitur tersebut mengimplementasikan keuntungan dan manfaat dari jaringan lokal, khususnya dalam mengatasi permasalahan di sisi waktu dan jarak. Dengan penerapan aplikasi ini, proses distribusi informasi menjadi lebih cepat dan mudah karena *user* tidak perlu lagi berpindah tempat setiap saat. Dan aplikasi ini dapat menjadi alternatif sarana komunikasi yang baik.

ABSTRACT

Local area network (LAN) is a local network within a building or an office that is often used to connect two or more computers. One of the objectives of having computer connected to each other within the local network is to have a media communications and make the information distribution process easier.

But occasionally when a user wants to communicate a data to others who are in the same local network, user tries to find or meet the person manually. Or when the user needs a file that is located on another computer, user has to move to a computer where the file is located. There are some users connected in a local network that has not been utilizing the benefits of a LAN connection.

Because of that, a Local Area Network Messenger application is being developed. This application is equipped with four main features which are instant messaging, voice call, screen sharing and file transfer. Instant message feature enable a user to send text messages to one another. Voice call feature allows the user to conduct voice communication with other users. Through screen sharing feature, a user is able to view the screen activity from other users. In the file transfer feature, a user can send multiple files to multiple users on the network.

Those features are implementing the advantages and benefits of local networks, particularly in addressing the problem about time and distance. By implementing this application, the information distribution process becomes faster and easier because users no longer need to switch places every time. And this application can be a good alternative media communications.

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