ABSTRACT

In globalisation today, telecommunication industrial growth rapidly as the demand of consumer that almost increase. In Indonesia, have a lot of telecommunication industry, likes BUMN or foreign company. Telecomunication industrial should taken this chances in order to facilited and give the best serve for customer, so the customer should be satisfied.

One of popular telecommunication technology is SMS. In the crowd area or in the living home, we would seen the people having fun with his *handphone,* for write the short message or SMS.

The popularity of SMS, it should be used as maximal as posible for customer satisfied. One of alternatif SMS advantages is for phone bill information services and payment. With this facilities, hopely phone bill information services and payment doing by *mobile*. So, need an *Operator* that can act as mediator between *User*, *Telkom*, and *Bank*.

Technology that needed should be *SMS Gateway*. As the meaning, gateway is gate, so thats mean a gate or bridge between two or more devices. Generally *SMS Gateway* is a computer with installed application to handle SMS transportation to another *handphone*. In this final project, writer also implement Linux *Operating System*, caused it is *Open Source*. So, if founding problem (bug) occured, it should be repaired. With QoS analysis is *response time* in *User* side Hopely *User* gave the best serve with *response time* system calculation.