

## CHAPTER 6

### CONCLUSION

Based on the results of research conducted previously, the following results were obtained:

1. By using the Golang programming language, it was found that applications using the gRPC protocol performed better than applications using the RestAPI protocol.
2. In accordance with the data in table 7, table 8, and table 9 in chapter 5, it is concluded that applications that use the gRPC protocol are more efficient in their use in terms of Memory Usage, Cpu Usage, and Latency Time.

From the average value of the three research results, it can also be concluded that the average difference in CPU Usage between applications using the gRPC and restAPI protocols is 7.7%. The average difference in Memory Usage between applications using the gRPC and restAPI protocols is 0.8%. The average difference in request time between applications using the gRPC and restAPI protocols is 2.8%. The value of the difference can be even more excellent if the number of requests needed in one process gets bigger between gRPC and restAPI with the same conditions.

