

## CHAPTER V DISCUSSION

### 5.1. Conclusion

Researcher have done the implementation and testing that needs to be done in order to implement the application of Google Mobile Vision text processing with client server architecture. The implementation and testing performed starting from the implementation of database creation, web service applications, until Android text processing applications have been successfully done.

In this study with MySQL database capable of storing data as a database of words transfer of language. Web service applications are able to accommodate data transactions with REST API and have been tested with REST Client tool that is Postman.

Android text processing applications are also capable of real-time switching languages by scanning text within camera frames in the app. The minimum specifications that can be concluded in the test are devices with the Android Jelly Bean operating system (API 16) with 512 MB RAM capacity, 7.69 MB of internal memory and a rear camera.

Based on the tests that have been done with the design of text-processing application architecture with Google Mobile Vision that has been done, text scanning successfully done in real-time and able to convert bahasakan Javanese words into Indonesian, or vice versa in 1 frame with REST API role of web application Service.

However, this application can not be separated from disadvantages like there has been no feedback if the scanned words are not in the database dictionary, as well as inherit the disadvantage of Google Mobile Vision library as yet can not scan handwritten text.

## **5.2. Suggestion**

Android text processing application architecture with Google Mobile Vision implementation that has been developed is expected to serve as a benchmark of research by researchers and commercial application development by Android app developers. Android application source code, web service applications, and databases have been uploaded to public repositories so they can be used as well as possible.

This research can be continued and developed with various technologies as well as existing cases such as sorting words with regular expression in natural language processing research, clustering words scanned in 1 frame can be a big data research, or automation of dictionary updates in the database can be a research machine learning, as well as various other studies that can be explored.