**CHAPTER 5**

**SUMMARY AND SUGGESTIONS**

**5.1 Introduction**

This chapter summarizes the main details of the project, the problems that were encountered while implementing the project, and solutions to the problems. In addition, this chapter includes suggestions for the future development of features to create a more effective application.

**5.2 Project Summary**

The VR Speech is an Windows 10 software that allows the user to try practice public speaking skills at home with implemented feedbacks. The software was made for people that are preparing for presentation or want to improve their presenting skill. The software will monitor the user’s performance and analyze the result and show as a graph. Moreover, the application allows the user to compare their previous performance and current performance presenting using the same script.

**5.3 Problems Encountered and Solutions**

**5.3.1 Connecting models and libraries to Unity**

First, during the early state before we are creating the Unity environment, we created all the model and library for detecting the user performance using Python 3 language. Then later we found out that we cannot connect Python to Unity which allows only C# language.

Then we did a research and found that a C# library which able to connect C# language with Python 2, which mean that we have to change all of our codes to be able to run in Python 2.

**5.3.2 Long Executing Time**

After we finished connecting all the models and libraries, the drawback is that is usually take a very long time for the inputs from Unity to C# then to Python and back. Which we implement multithreads techniques to solves this problem.

**5.4 Suggestion for Further Development**

**5.4.1 Importing PowerPoints and Scripts**

In order to fully prepare presenting beforehand, having user’s PowerPoints and scripts shown inside the room could have improve user’s experiences and able to fully enhance the user skill and make the environment more interactable and more interesting.

**5.4.2 Login System**

To be able to track each user performance. We would like to implement login system and session record to be able to keep track of different scripts so we can able to compare the performance effectively.

**5.4.3 More Scenarios**

Able to speak in different scenarios such as job interviewing, monthly report presentation with CEO could be very useful for users to preparing these activities before actually doing them.