**CHAPTER VI**

Summary, Conclusion and Recommendation

**Summary**

Intelora is an open end-to-end Intelligent Personal Assistant Development Platform that can be used to build, code and extend a user’s own customized IPA with features such as Speech to Text Processing, Natural Language Processing, Text to Speech and, API and Web Services Compatibility. This has been developed by grouping the three main components and combining them to develop a core which will act as the central processing module and message bus. External and Add-On modules and services will be then incorporated by accessing the Platform's API. The platform is highly portable and can run on Linux systems from single board computers to desktops. It provides an API which allows developers to build their own Skills to access web services, control IoT devices, interact with media systems and more. The study aims to provide developers and enthusiast alike, a platform that will enable them to build, customize and redistribute their own Intelligent Personal Assistant.

**Conclusion**

After developing Intelora: An Open-Source Integrated Intelligent Personal Assistant Development Platform using Linux-based Operating System, the proponents come up with conclusions:

• Most of the existing Intelligent Personal Assistant nowadays do not give the freedom and capability for the user to customize, extend and integrate their own Intelligent Personal Assistant.

• Most of the existing Intelligent Personal Assistant nowadays doesn’t give feedbacks with clues and hints on what a user should do when an error occurs due to misunderstanding of speech input by assigning a context specific fallback.

• A new approach on how to develop an open-source Intelligent Personal Assistant will be a big help to the end-users.

• It will be beneficial to those people who wants to have a full control and supervision on their own Intelligent Assistant to make it more personal and be able to customize it according to their own likes and preferences.

**Recommendation**

The proponents highly suggest this new approach on developing Intelligent Personal Assistant, where user can customize, build, extend and integrate their own IPAs. This platform mainly targets developers and enthusiasts alike, that wants to explore open-source technologies and Linux Operating System.

For Future Researchers and Developers, the proponents highly suggest to integrate more Speech to Text (STT) and Text to Speech (TTS) engines. Develop more neurons/skills to further expand Intelora's scope and capability. Release Intelora to mobile platforms (iOS, Android and Windows Phone) and lastly, contribute to Intelora's public repository on Github.