**Chapter IV**

**METHODOLOGY**

*This chapter discusses the applicable research methodologies of the study. The research design, instrumentation, and procedure are also included in this chapter for a wider understanding of the proposed study.*

**I. Research Design**

The proponents used descriptive method for the research. A Descriptive method of research is primarily concerned with finding out “what is”. It does not fit only into the definition of either quantitative or qualitative research methodologies, but instead it can utilize elements of both, often within the same study. The main goal of this type of method is to gather quantifiable information on the target audience and describe these data through data analysis. This type of research takes place on determining what skills or functions are needed to help developers in creating Intelligent Personal Assistant’s (IPA’s). It aims to provide a platform that will serve as the tool to create, edit and manage IPAs based on the preferences of the users or desired audiences.

**II. Population and Locale of the Study**

**Population/Participant**

To introduce the IPA and the platform, the proponents of this study conducted an online survey with a total of 52 respondents, namely, students and professionals which are involved in the field of Information Technology and Computer Sciences. The participants of this study are students and professionals who are familiar with smartphones, IPAs, computers and laptops.

* **Software/System Design**

**III. Data Instrumentation**

In this study, the researchers will be using a laptop, microphone, and speaker to enable the Intelligent Personal Assistant to recognize the users’ speech and perform the action or function that is commanded. In addition, it enables the text to speech function of the IPA.