**Chapter 3**

**TECHNICAL BACKGROUND**

This chapter deliberates and presents the important features and tools that relevant in this project.

**Web application**

**Laravel.** A free open source PHP web framework that is intended for the development of web applications following model-view-controller (MVC) architectural pattern. Many inbuilt functions and infrastructure to access database, migrations, models and testing.

**MySQL**. Is a relational database management system. MySQL is a popular choice of database use in web applications, and is a central component of the widely used LAMP open source web application software stack. LAMP is an acronym for “GNU/Linux, Apache, MySQL, Perl/PHP/Python”.

**Bootstrap**. Is the most popular HTML, CSS, and JavaScript framework for developing responsive, mobile-first web sites.

**Mobile Application**

**Android Operating System.** Is a mobile operating system developed by Google. It is used by several smartphones and tablets. It is an open source, meaning developers can modify and customize the OS for each phone. (Christensson, 2016).

**Android Studio**. Is the official Integrated Development Environment (IDE) for Android platform development. It offers more features that will enhance productivity when building Android apps, such as a flexible Gradle-based build system, fast and feature-rich emulator and a unified environment.