**CHAPTER III**

**TECHNICAL SPECIFICATIONS**

This section discusses and presents the software proponents decided to use in developing the proposed system as well as the different diagrams pertaining to the software project being developed.

**Software**

The web application was developed using the following software applications as platforms and for the web application developing environment.

Table 3.1: Software Development Requirements

|  |  |  |
| --- | --- | --- |
| Software | Specification | Descriptions |
| Operating System | Windows 7, 8.1 and 10 | Operating system is a powerful and large program that controls and manages the [hardware](https://www.lifewire.com/computer-hardware-2625895) and other software on a computer. |
| Programming Language | Hypertext Preprocessor (PHP) | A fast and feature-rich open source scripting language used to develop Web Applications or Internet / Intranet Applications. |
| Database software | MySQL | A powerful open source database server built based on a relational database management system (RDBMS) and is capable of handling a large concurrent database connection. |
| Web Browser | Chrome v.69 | A browser is a [software](https://www.computerhope.com/jargon/s/software.htm) program created as a simplified means to present and explore content on the [World Wide Web](https://www.computerhope.com/jargon/w/www.htm). |

Table 3.1 shows the software requirement specifications in developing the web application. The proponents used Bootstrap with AJAX (Aynchronous Javascript and XML) for frontend development and PHP for backend development. The database used is MySQL (My Structured Query Language) in order to handle big amount of data. The proponents developed the system using operating system Windows 7, 8.1 and 10 as it perfectly runs on MySQL and the web browser is Chrome.

Table 3.2: Software Implementation Requirements

|  |  |  |
| --- | --- | --- |
| Software | Specification | Descriptions |
| Operating System | Windows 7 up to Windows 10 | The Windows operating system is designed to be compatible with the largest combination of PC hardware. |
| Web Browser | Chrome | Google Chrome is a free web browser created by Google that uses the WebKit layout engine and is known for its very simplistic and minimalistic design which is touted as the fastest browser. |

Table 3.2 shows the software applications that will be used by the user when the system is implemented. Windows 7 up to Windows 10 can be used as the system functions properly with Windows OS. For the web browser, Google Chrome is recommended for easy and fast access.

**Technologies**

The system is a web application where it runs in web browsers and perform task over the internet. It is accessible and easier to navigate and maintain which results to usefulness and efficiency for the user. The system will provide job matching feature which matches the applicant’s skills to the specific vacant job qualifications. It will speed up the process as well as eases the workload of the desk officer. Also, the system will include executive dashboards and interactive reports. It is valuable for the decision-making of the management and to monitor the progress of the current system.