

## I. Technical Background

### Software

Cross-platform source code editor: Sublime Text

Cross-platform web server: Apache

Open source IDE: Eclipse

Programming Languages: HTML, CSS, PHP, MySQL, Java

Web Browser: Google Chrome, Mozilla Firefox, Microsoft Edge

Business Analytics Tool: Power BI

### Definitions

HTML – stands for Hypertext Markup Language, describes the structure of Web pages using markup. Hypertext is the method by which you move around on the web. Markup is what HTML tags do to the text inside them. HTML is a language as it has code-words and syntax like any other languages. HTML pages have building blocks called elements which are represented by tags. <sup>[9]</sup>

CSS – stands for Cascading Style Sheet, describes how HTML elements are displayed on screen, paper, or in another media. It saves a lot of work because it can control the layout of multiple web pages at once. <sup>[10]</sup>

PHP – stands for Hypertext Preprocessor is an open source general purpose scripting language. It is suited for web development and can be embedded into HTML. <sup>[11]</sup>

Apache – the most widely known web server software which can be used in Linux and Windows. It was developed by the Apache Software Foundation, it is an open-source and is available for free. <sup>[12]</sup>

Sublime text – a proprietary cross-platform code editor which natively supports

programming languages and markup languages. It is widely known and has a lot of features a programmer can explore to. <sup>[13]</sup>

Eclipse – Eclipse is a Java-based open source platform that allows a software developer to create a customized development environment (IDE) from plug-in components built by Eclipse members. Eclipse is managed and directed by the Eclipse.org Consortium. <sup>[14]</sup>

MySQL – MySQL is the world's most popular open source database. With its proven performance, reliability and ease-of-use, MySQL has become the leading database choice for web-based applications, used by high profile web properties including Facebook, Twitter, YouTube, Yahoo! and many more. Oracle drives MySQL innovation, delivering new capabilities to power next generation web, cloud, mobile and embedded applications. <sup>[15]</sup>

Java – Java is a programming language and computing platform first released by Sun Microsystems in 1995. There are lots of applications and websites that will not work unless you have Java installed, and more are created every day. Java is fast, secure, and reliable. <sup>[16]</sup>

Power Bi – Power BI is a suite of business analytics tools to analyze data and share insights. Power BI dashboards provide a 360-degree view for business users with their most important metrics in one place, updated in real time, and available on all their devices. With one click, users can explore the data behind their dashboard using intuitive tools that make finding answers easy. Creating a dashboard is simple thanks to over 50 connections to popular business applications, complete with pre-built dashboards crafted by experts that help you get up and running quickly. And you can access your data and reports from anywhere with the Power BI Mobile apps, which update automatically with any changes to your data. <sup>[17]</sup>