

# Software Hardware List

Chapter number	Software required (With version)	Free/Proprietary	If proprietary, can code testing be performed using a trial version	If proprietary, then cost of the software	Download links to the software	Hardware specifications	OS required
1	None	N/A	N/A	N/A	N/A	One of: x86_64, ARM64, PPC64LCE, s309x	Minimum Versions Supported: Windows 7/2008R2 Debian 8 RedHat/CentOS 6.2 Ubuntu 14.04 macOS 10.11
2	Same	Same	Same	Same	Same	Same	Same
3	Same	Same	Same	Same	Same	Same	Same
4	PHP 7.0 or above	Free	N/A	N/A	<a href="http://php.net/downloads.php#v7.2.9">http://php.net/downloads.php#v7.2.9</a>	Same	Same
5	Same as 1	Same as 1	Same as 1	Same as 1	Same as 1	Same	Same
7	Same	Same	Same	Same	Same	Same	Same
8	Same as 4	Same as 4	Same as 4	Same as 4	Same as 4	Same	Same

The PHP installation procedure for all supported operating systems is detailed on this web page: <http://php.net/manual/en/install.php#install>. For the web based application discussed in Chapter 8, *Getting from Web Form to MongoDB*, you can install a web server (e.g. Apache), and map a *virtual host* to the chapter 8 source code you downloaded.

Instructions on how to install Apache can be found here: <http://httpd.apache.org/docs/2.4/install.html>. Instructions on virtual host mapping configuration can be found here: <http://httpd.apache.org/docs/2.4/vhosts/>. However, a fast and easy alternative to installing Apache would be use the built-in PHP development server, which can be accessed using this command, where `<doc root>` is the path to

```
/where/you/downloaded/the/source/code/Chapter08/public:
```

```
php -S localhost:8888 -t <doc root>
```

Another good alternative would be to set up a *virtual machine* using VMware or VirtualBox. The *Appendix* in this book discusses using a Docker container to run MongoDB.