Tools and Technologies

There are 2 ways that this sort of project can be achieved we could host on a cloud service such as Google Cloud Platform or on our own hardware.

A cloud solution;

An example of this is set up at https://35.189.54.57

Our own hardware.

Standard Mid range PC with at least 1Ghz CPU, 1Gb of Ram 4Gb of Hard drive space for Operating system and a further 100Gb for Web site and Database.

Despite which platform we use the set up will be that of a LAMP server which stands for **L**inux, **A**pache, **M**ySQL, **P**HP although there are other interpretations of this acronym.

**L**inux: Ubuntu Server 18.04.2 LTS,

I have chosen this OS one for familiarity and second it natively supports MySQL Workbench.

**A**pache: Apache httpd 2.4.39

This is the most popular web hosting software there is, to the point that if you run a report on what platform many of the Microsoft servers are running on you will find Apache listed as opposed to Microsoft's own IIS, but this could also be to misinform hackers.

**M**ySQL: MySQL 8.0 and MySQL Workbench

MySQL is the most popular open source database platform there is. MySQL Workbench is a unified visual tool for database architects, developers, and DBAs. MySQL Workbench provides data modelling, SQL development, and comprehensive administration tools for server configuration, user administration and back up backup, in other words this makes administration easier.

**P**HP: PHP 7.1.29

PHP is a programming language designed for web development