**Database**

The database for the project was implemented using the MySQL Database Management Server. It is one of the most popular open-source relational database management system (RDBMS). As a relational database, it organizes and stores data into tables that can be related to one another with the use of primary and foreign keys. MySQL is in popular because of its open-source nature, simplicity, ease of use and powerful capabilities and features. The open-source edition (MySQL Community Server) is free, this implies that there is no cost or charges to obtain a copy of it to use, as it is available under a variety of proprietary licenses. It is currently owned, run and managed by Oracle Corporation since 2010 when it was acquired. It works seamlessly on wide varieties of different Operating Systems (OS) without compatibility issues. It is often used to implement applications that need relational database capability. It is the DBMS of choice for a lot of widely-used web applications such as Wordpress, Joomla, Open Journal System (OJS), Moodle, Drupal e.t.c. It is being used to power many of the big website on the Internet such as Facebook, Twitter, Flickr, MediaWiki, Youtube e.t.c.

**Features of MySQL DMBS**

MySQL facilitates the effective management of databases and takes it further with its seamless integration and connection with application software. It is a stable, reliable and powerful solution with advanced features enumerated below:

* Data Security
* On-Demand Scalability
* High Performance
* Round-the-clock Uptime
* Comprehensive Transaction Support
* Complete Workflow Support
* Reduced Total Cost of Ownership
* The Flexibility of Open Source
* Built-in Replication Support
* Cross-platform Support
* Information Schema

**Application Development**

The application was developed using PHP ( Hypertext Preprocessor), which is a web programming language. It communicates seamlessly with the MySQL DBMS in storing data for applications created using PHP. It is a general-purpose scripting language particularly adopted for use on the web.

References

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