**Research Document**

S3-CB04

Web Shop – “**S. H. A. I. N.”**

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# What is my application about? What kind of data that I have?

My application is about Online Web Shopping, on the Online Web Shopping we store all the products on the database to keep track on it. To check when the product’s finished, when the product has been sold. We also keep track our employees and members with database. Online Shopping is between user and product, which is mean the user has to be connected with the product. I’m going to use relational database (SQL) for my Online Web Shopping because it needs a lot of relationships from one to another.

## 1.1 Which database is the most suited for my Online Web Shopping?

Based on the website that I visited, it says that MySQL is the most common database that has been used for the last 12 month.

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It’s also said that most of people using Intellij IDEA to be connected with MSQL which mean nice for me, because I’m using Intellij IDEA for my Web Shopping.

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## How is MySQL better than other databases?

Beside all of the statistical data that I showed, there’s certain things why I choose MySQL:

* **MySQL has Strong Data Protection**

MySQL is globally renowned for being the most secure and reliable database management system used in popular web applications.

For database authentication, MySQL ensure that only authorized users can access the database server. If some non-authorized users trying to access the data, MySQL have the ability to block the users.

MySQL also have SSH and SSL support to ensure the safe and secure connections.

* **MySQL has High Performance**

MySQL has different storage engine frameworks that make it easy for system administrators to configure MySQL database servers with perfect performance.

MySQL is designed to meet the most demanding applications for optimal speed, as well as a stable memory cache for increased application performance.

* **Management Ease**

MySQL offers amazingly fast start-up capabilities with an average time from software download to installation completion of less than fifteen minutes. This rule applies whether the platform is Microsoft Windows, Linux, Macintosh, or UNIX. Once installed, self-management features such as automatic space expansion, automatic restart, and dynamic configuration changes take a lot of the burden off an overworked database administrator. MySQL also provides a full suite of graphical and migration management tools that allow DBAs to manage, troubleshoot, and control the operation of multiple MySQL servers from a single workstation. Many third-party software vendor tools are also available for MySQL that handle tasks from data design and ETL, to complete database administration, job management, and performance monitoring.

There’s more benefit from using MySQL, but that’s the main reason why I choose MySQL for my Web Application.

## Why is MySQL the best choice for MY project?

* **Strong Data Protection**

My Application is about Online Shopping, so we saved a lot of personal information about our clients, our employees. The database really have to be secure, otherwise all the personal information will be leak easily.

* **High Performance**

Based on what I explain above, MySQL can reach the most demanding performance expectations of any system.

* **Management Ease**

MySQL is really easy to manage, they also have tools for manage the database. But for other reason I already know MySQL better than other database

# Conclusions

I’m going to use MySQL for my Online Web Shopping because MySQL is really fit with my Online Web Shopping. MySQL have everything that my Online Web Shopping need.

Based on my research, it says that MySQL is one of the common database that have been use by the programmers for more than 12 months, so it’s even give me more confident to use MySQL.

# References

*Top Reasons to Use MySQL*. (n.d.). DB Quest. Retrieved November 26, 2021, from <http://www.databasequest.com/index.php/product-service/mysql-dbquest>

Hurley, J. H. (2021, June 3). *The Pros and Cons of MySQL*. SMARTFILE. Retrieved November 26, 2021, from <https://www.smartfile.com/blog/the-pros-and-cons-of-mysql/>