

## **CHAPTER 7: CONCLUSION**

In conclusion, the project has been developed by using PHP and MySQL where we showcase an online store that meets customers and sellers' needs.

The rise of online marketplaces and e-commerce stores has revolutionized the way we shop. The ability to list and sell items online has opened up a whole new world of possibilities for both consumers and businesses alike. By providing a platform for sellers to showcase their products, and buyers to browse and purchase items from the comfort of their own homes, these marketplaces have become an integral part of modern commerce.

Purpose of using MySQL:

- Ease to customise or alter data
- Economical
- Easy to implement and design a database

Purpose of using PHP:

- Easy to write back end code
- Platform independent
- Easy to load applications and connect to database

## CHAPTER 8: LIMITATIONS & FUTURE WORK

There are several possible limitations of our online marketplace project for a database system, including:

1. **Scalability:** As an online marketplace grows, so does the amount of data it needs to store and manage. This can put a strain on the database system and lead to performance issues if it's not designed to handle large volumes of data.
2. **Security:** Online marketplaces deal with sensitive customer information such as personal and financial data, making them attractive targets for hackers. Without proper security measures in place, a database system can be vulnerable to breaches and data theft.
3. **Data consistency:** In an online marketplace, multiple sellers may be selling the same item, and it's important to ensure that the data related to each item is consistent across the platform. Any discrepancies in the data can lead to confusion and distrust among buyers.
4. **Maintenance and updates:** A database system requires regular maintenance and updates to ensure optimal performance and security. Without proper maintenance, the system can become slow, unstable, or even crash.

Overall, while our online marketplace project displays its functioning and systems properly, there are also several limitations to consider when building and maintaining a database system for them. It's important to carefully plan and design the system to address these limitations and ensure a smooth and secure user experience.

To ensure the smooth functioning of an online marketplace project and address the limitations of the database system, the following measures can be taken:

1. **Scalability:** One way to tackle scalability issues is to use a distributed database system that can handle large volumes of data across multiple

servers. Additionally, employing caching techniques and optimizing queries can help improve performance.

2. Security: To improve security, the database system should be designed with strong encryption, access controls, and regular vulnerability assessments. Regular backups of the database can also help minimize data loss in case of a breach.

3. Data consistency: Ensuring data consistency across the platform can be achieved through the use of unique identifiers for each item and implementing a system for verifying and reconciling data.

4. Maintenance and updates: Regular maintenance and updates of the database system should be scheduled to ensure optimal performance and security. Automated tools and monitoring systems can also help identify issues and address them in a timely manner.

## CHAPTER 9: REFERENCES

- <https://www.geeksforgeeks.org>
- <https://www.tutorialspoint.com>
- <https://www.w3schools.com>
- [www.php.net](http://www.php.net)