Chapter 5: Conclusion

Final Exam: Question 1

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Correct Option

- R2 - user views a specific item.

This is the operation, alongside its corresponding write W4, that occurs most often at peak times.

R2 has a very low expected latency of 1 millisecond.

This will drive the design to reduce the number of queries when retrieving this information. For example, embedding as much necessary information as possible in the product will help to reduce such queries.

Incorrect Options

- W4 - application records time and user info when an item is viewed.

A hint that W4 is not as important as R2 is the durability of `w: 0`. This write concern means that the application is not going to wait for a confirmation that any nodes completed the write successfully, meaning that the application is not very concerned with its success.

- W6 - user adds item to cart.

These writes are very important, and we will use the appropriate write concern and catch the error conditions in the code. However, they do not appear as frequently as the more important R2 reads, so we shouldn't build our system around these writes.

- R1 - user logs into the application.

This is one of the most imporant operation, because without it being fast, you may lose customers. However there are a lot more views of items, especially at peak time.

- R4 - user views their cart.

This is also another very important operation, as the customer may be ready to commit on purchasing items, however here again, this operation does not happen as often as the views of items.

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