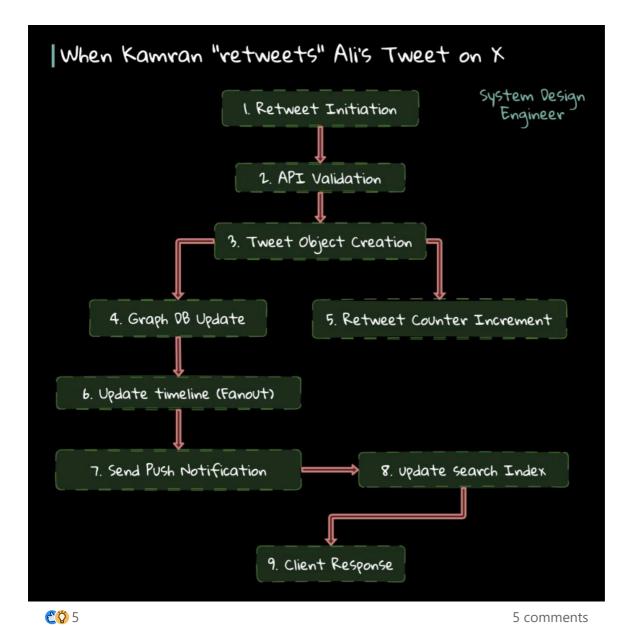
When Kamran "Re Tweets" Ali's tweet on X (Twitter)

1. Kamran clicks "Retweet" on Ali's tweet, triggering an API call containing original tweet ID and authentication details
2. Request enters X's API gateway which performs rate limiting, token validation etc (API Gateway Processing)
3. Tweet service generates new tweet object to persist in database (Retweet Object Creation)
4. Graph DB is updated with retweet edge for "Who Retweeted" views (Social Graph Update)
5. Atomic increment of retweet count on original tweet
6. As "Kamran" isn't a celebrity, insert retweet ID into followers' timeline caches (Fanout operation)
7. Send push notifications to Ali and mentioned users
8. Add retweet to search index
9. Return 201 created to client

Want Career Advise? Join Discord clicking Kamran (link in bio)

over to you, how to achieve atomic increment in step 5?



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Appreciate the quick insights. Kamran Ali