Author: Diego JIN

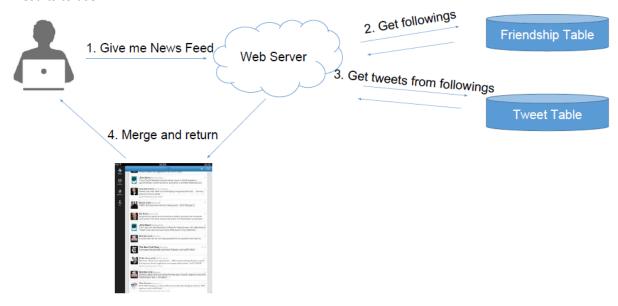
GitHub: https://github.com/diego-king

Pull vs Push

Pull mode

Steps

- 1) User request 100 news feed.
- 2) Merge and sort 100 news feed from different sources.
- 3) Return results to user.



Complexity

1. **Get News feed**: N sources -> N DB read → O(N)

2. Post a news: 1 DB write \rightarrow O (1)

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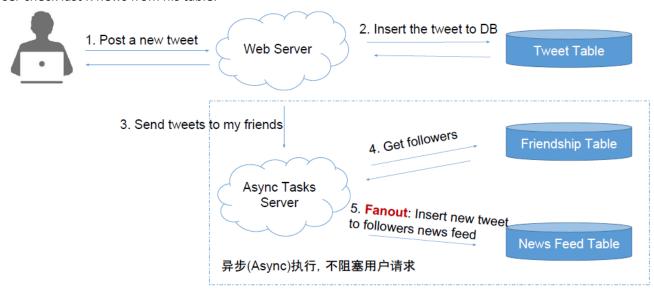
Push mode

Steps

1. For each user, create a table for his news feed.

2. When source create a news, add to follower's table.

3. User check last K news from his table.



Complexity

1. Get News feed: 1 DB read.

2. Post a news: N follower, need N DB write.

Pull vs Push Comparison

	Pull	Push
Users get messages speed	Relative slow, N DB read	Very quick, 1 DB read
Storage	Less Disk	More Disk
Super star	Good to handle	Cost more time and disk to generate
(Many followers)		news for followers.