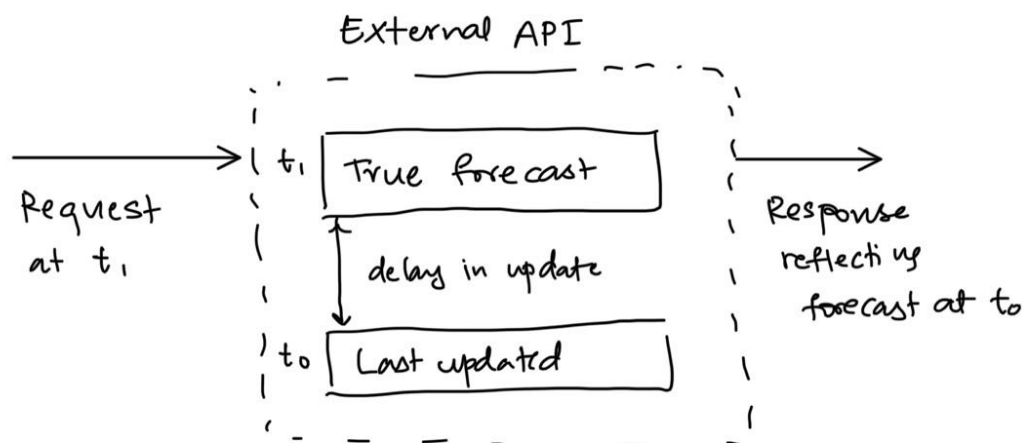


A.

1. Server side caching to reduce the number of API calls
 - Caching stores data that is obtained through the external APIs locally, such that only the first API call returns the data from the external source. Subsequent calls return data that was stored locally.
2. Handle error code 429 (Too Many Requests) by backing off
 - Upon receiving a 429 error code, the app should pause for a second before resuming the server.
3. Sideload related data
 - Get multiple data records through a single request.

B.

Find out the cause of inaccuracies. If inaccurate data is caused by latency:



The response reflecting forecast at t_0 should come with a Unix timestamp that is the time when the external API was last updated.

Unix timestamp is also there at t_1 , the time when request by client was made.

Update latency = $t_1 - t_0$

True forecast = Displayed forecast - Update latency.