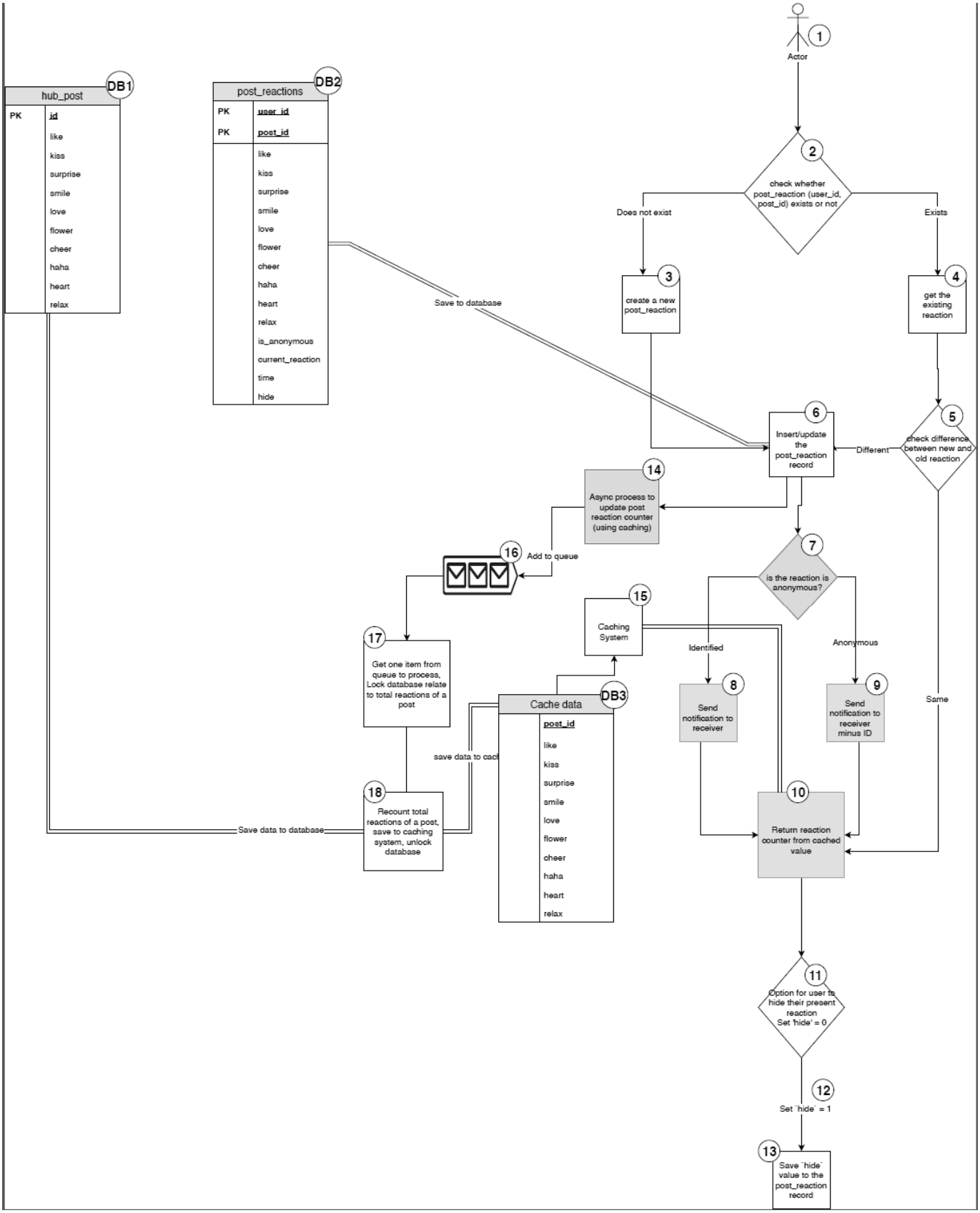

Actor
1
hub_post
DB1
PK
id
like
kiss
surprise
smile
love
flower
cheer
haha
heart
relax
post_reactions
DB2
PK
user_id
PK
post_id
like
kiss
surprise
smile
love
flower
cheer
haha
heart
relax
is_anonymous
current_reaction
time
hide
2
check whether post_reaction (user_id, post_id) exists or not
Does not exist
Exists
3
create a new post_reaction
4
get the existing reaction
Save to database
6
Insert/update the post_reaction record
Different
5
check difference between new and old reaction
14
Async process to update post reaction counter (using caching)
16
Add to queue
7
is the reaction is anonymous?
15
Caching System
17
Get one item from queue to process, Lock database relate to total reactions of a post
Identified
Anonymous
Same
Cache data
DB3
post_id
like
kiss
surprise
smile
love
flower
cheer
haha
heart
relax
8
Send notification to receiver
9
Send notification to receiver minus ID
save data to cach
18
Recount total reactions of a post, save to caching system, unlock database
Save data to database
10
Return reaction counter from cached value
11
Option for user to hide their present reaction
Set 'hide' = 0
12
Set 'hide' = 1
13
Save 'hide' value to the post_reaction record

Figure 3

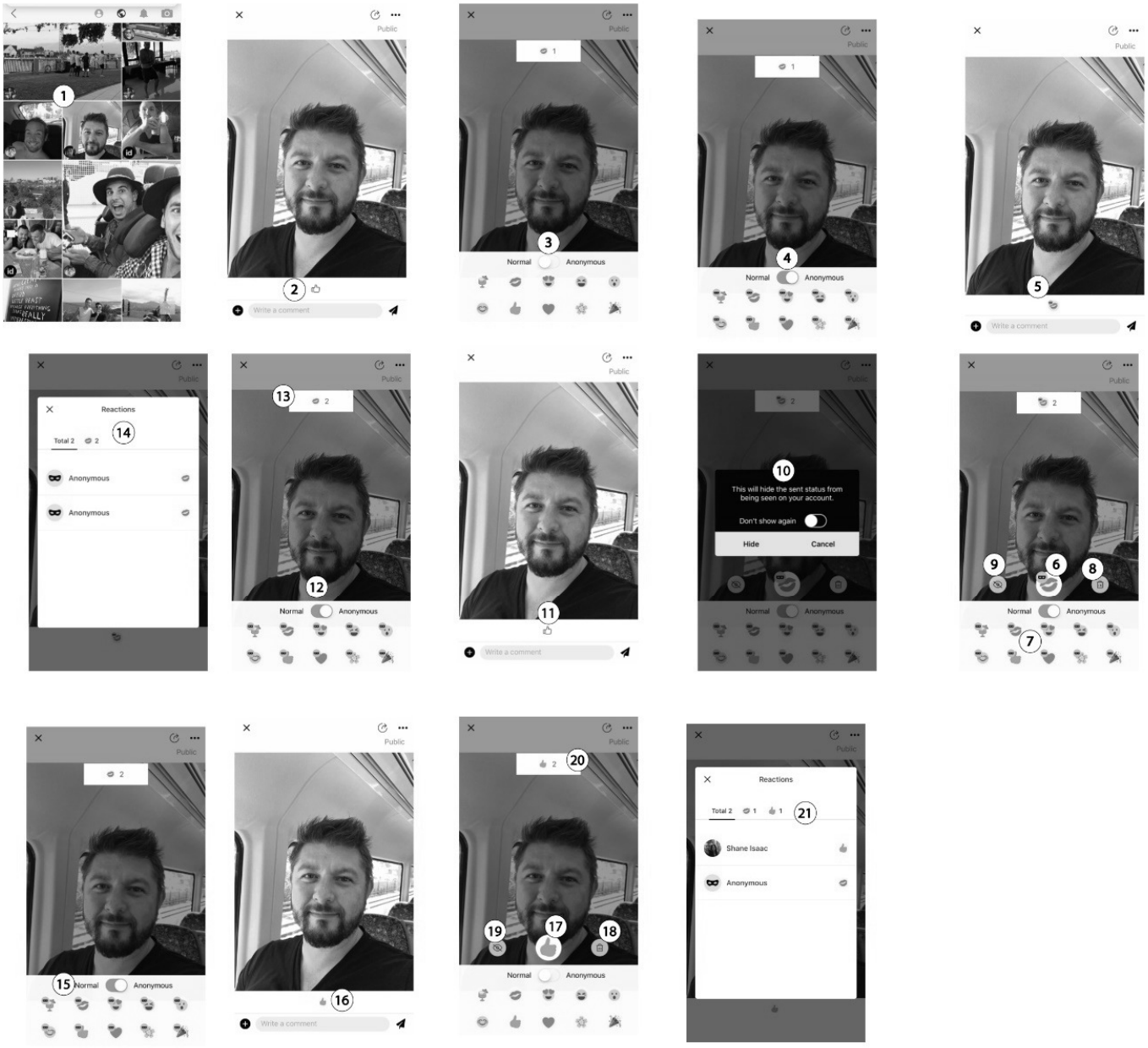

1
2
Public
Write a comment
3
1
Normal
Anonymous
4
5
Reactions
Total 2
Anonymous
Anonymous
6
7
8
9
10
This will hide the sent status from being seen on your account.
Don't show again
Hide
Cancel
11
12
13
14
15
16
17
18
19
20
21
Shane Isaac

Figure 4