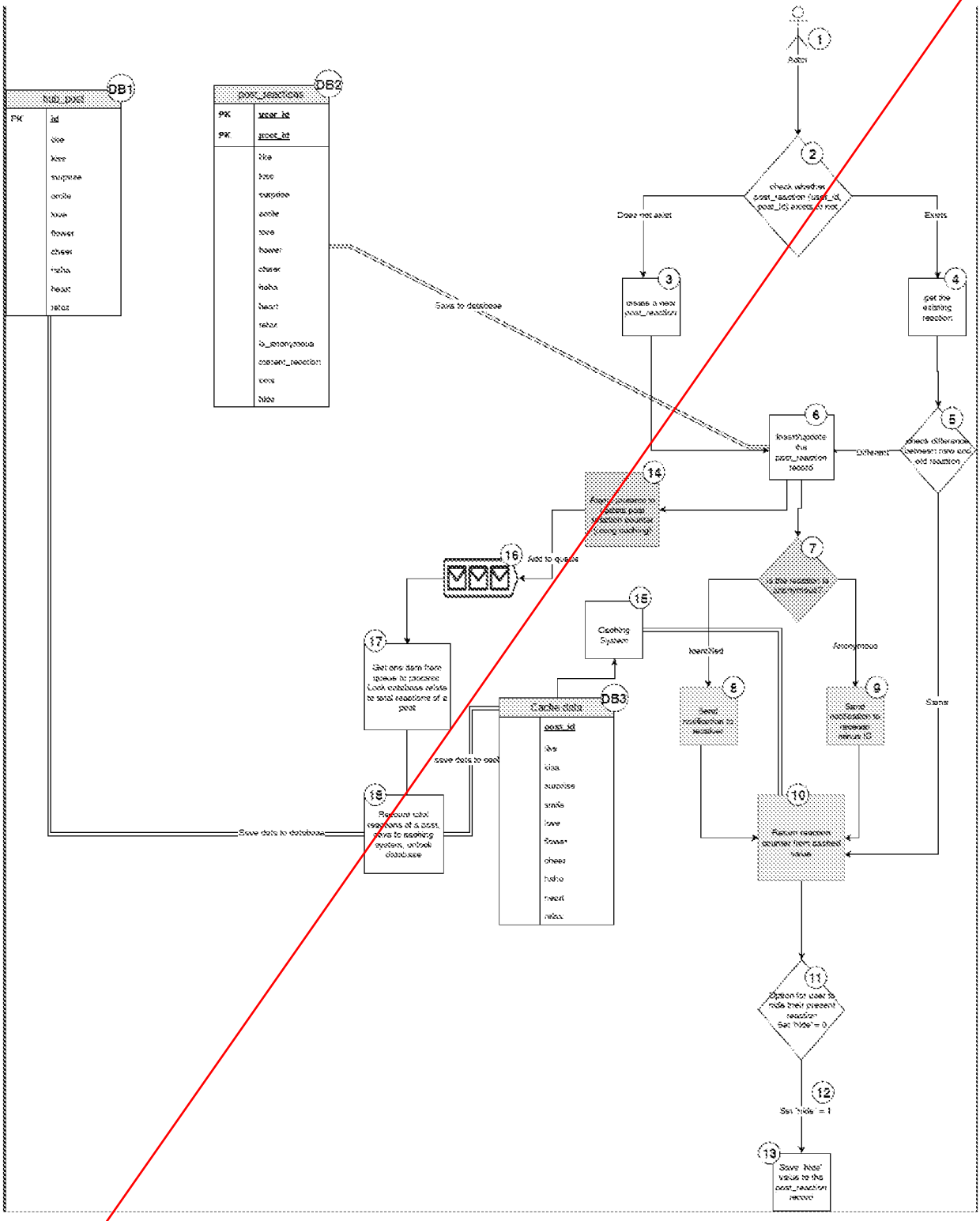
DB1
hub_post
PK
id
like
kiss
surprise
smile
love
flower
cheer
haha
heart
relax
DB2
post_reactions
PK
user_id
PK
post_id
like
kiss
surprise
smile
love
flower
cheer
haha
heart
relax
is_anonymous
content_reaction
kiss
hide
Save to database
1
Actor
2
check whether post_reaction (user_id, post_id) exists or not
Does not exist
Exists
3
create a new post_reaction
4
get the existing reaction
5
check difference between new and old reaction
6
Insert/update the post_reaction record
Different
14
Add to queue
16
7
is the reaction to anonymous?
15
Caching System
Identified
Anonymous
17
Get one item from queue to process. Look database relate to total reactions of a post
DB3
Cache data
post_id
like
kiss
surprise
smile
love
flower
cheer
haha
heart
relax
save data to cache
8
Send notification to receiver
9
Send notification to receiver minus 10
Same
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

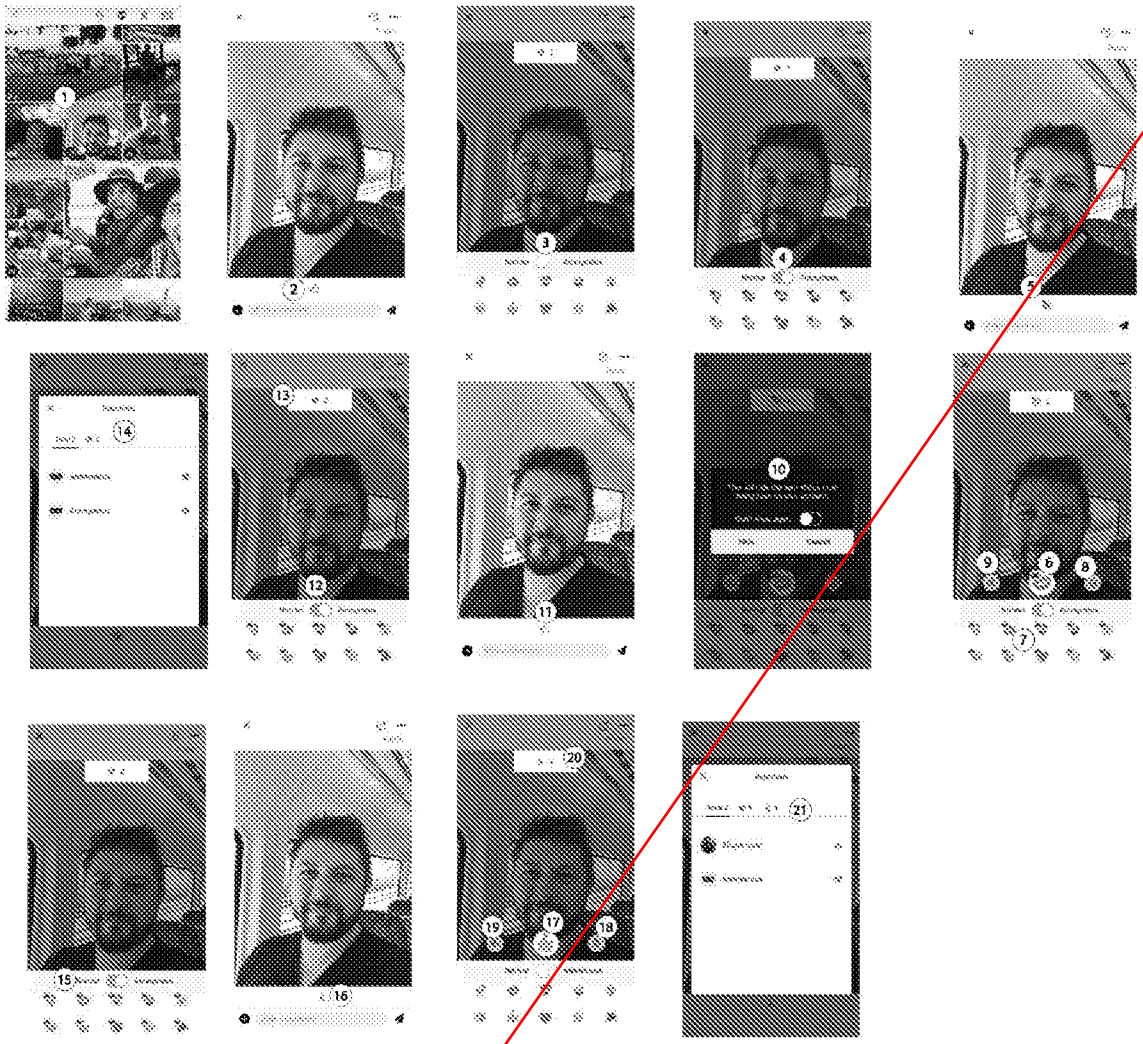

Figure 4

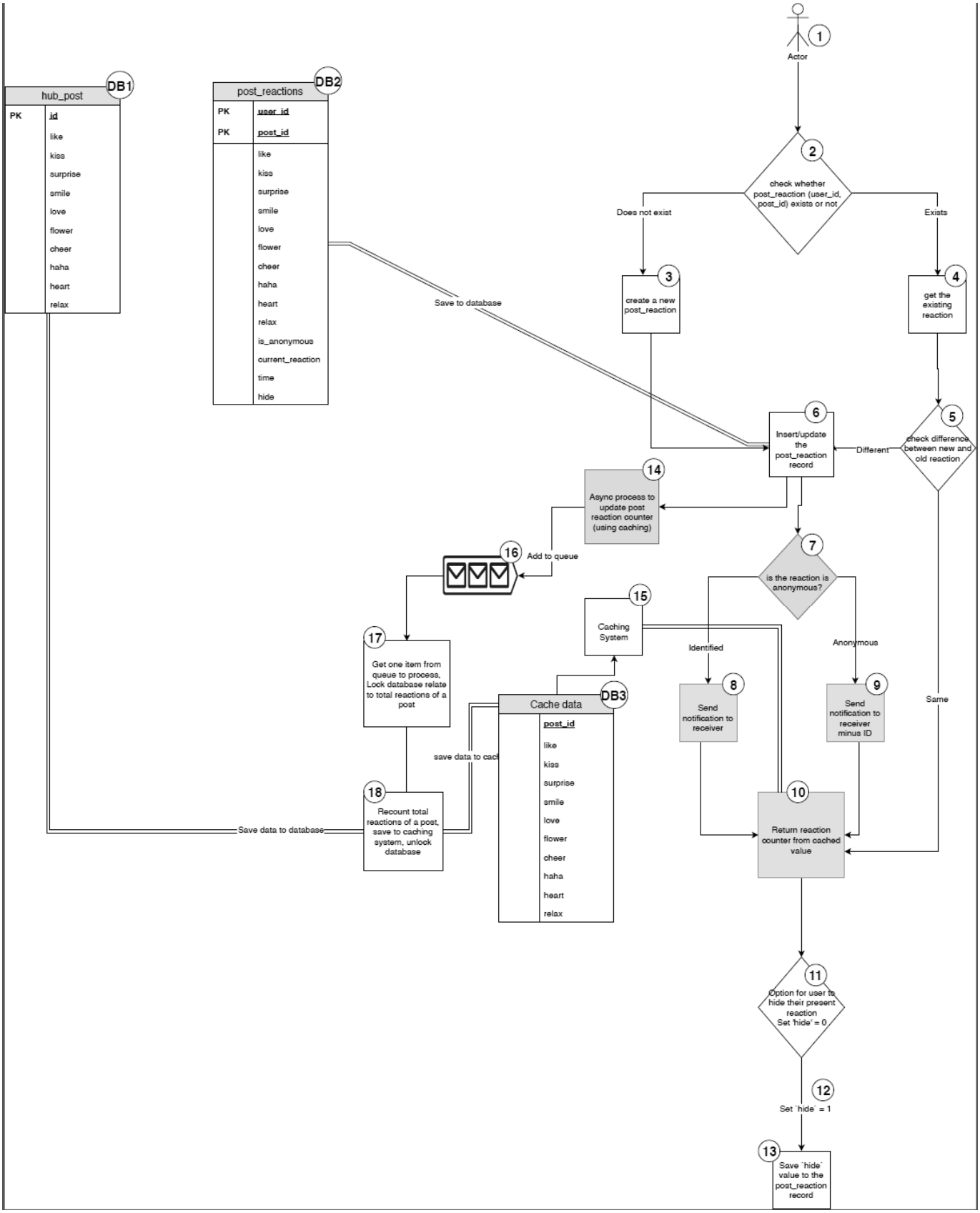
DB1
hub_post
PK
id
like
kiss
surprise
smile
love
flower
cheer
haha
heart
relax
DB2
post_reactions
PK
user_id
PK
post_id
like
kiss
surprise
smile
love
flower
cheer
haha
heart
relax
is_anonymous
current_reaction
time
hide
1
Actor
2
check whether post_reaction (user_id, post_id) exists or not
Does not exist
Exists
3
create a new post_reaction
4
get the existing reaction
Save to database
5
check difference between new and old reaction
6
Insert/update the post_reaction record
Different
Same
14
Async process to update post reaction counter (using caching)
16
Add to queue
7
is the reaction is anonymous?
15
Caching System
Identified
Anonymous
17
Get one item from queue to process, Lock database relate to total reactions of a post
DB3
Cache data
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

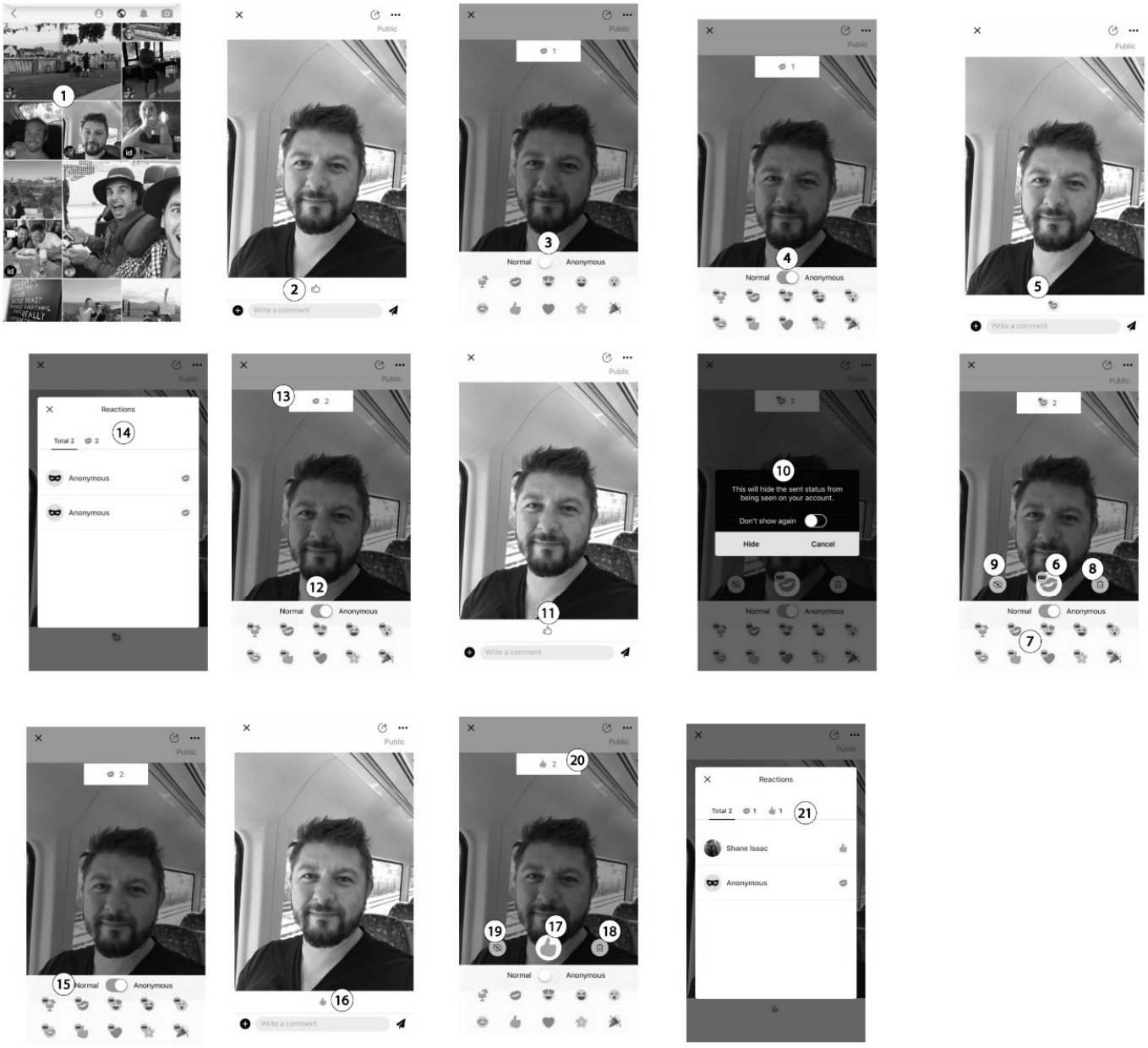
1
2
3
Normal
Anonymous
4
Normal
Anonymous
5
Write a comment
Reactions
14
Total 2
Anonymous
Anonymous
13
12
Normal
Anonymous
11
Write a comment
10
This will hide the sent status from being seen on your account.
Don't show again
Hide
Cancel
Normal
Anonymous
9
6
8
7
Normal
Anonymous
15
Normal
Anonymous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

Figure 4