

Use case name: User posts a Tuit

Actors involved: User

Preconditions:

1. User authenticated
2. Tuit length does not exceed the character limit.

Actor actions and System responses:

1. Actor: User posts a Tuit; System: A Tuit has been posted.
2. Actor: Unauthenticated user tries to post a Tuit; System: Error Message: Sign in first.
3. Actor: User tries to post a Tuit but exceeds the character limit; System: Error message: Exceeding Character Limit.

Postconditions:

1. Tuit posted successfully
2. Tuit cannot be posted because the user did not sign in.
3. Tuit cannot be posted due to the over-limit character number.

Use case name: User likes a Tuit

Actors involved: User

Preconditions:

1. User authenticated

Actor actions and System responses:

1. Actor: User likes a Tuit; System: The number of likes of the Tuit adds one.
2. Actor: Unauthenticated user tries to like a Tuit; System: Error Message: Sign in first.

Postconditions:

1. The user likes a Tuit successfully.
2. The user fails to like a Tuit because the user did not sign in.

Use case name: User replies to a Tuit

Actors involved: User

Preconditions:

1. User authenticated
2. Reply length does not exceed the character limit.

Actor actions and System responses:

1. Actor: User replied to a Tuit; System: Add a reply to a Tuit and create a new Tuit of this reply.
2. Actor: Unauthenticated user tries to reply to a Tuit; System: Error Message: Sign in first.

Postconditions:

1. User replies successfully
2. User fails to reply because he/she did not sign in.

Use case name: User bookmarks a Tuit

Actors involved: User

Preconditions:

1. User authenticated

Actor actions and System responses:

1. Actor: User bookmarks a Tuit; System: Add the Tuit to this user's bookmark.
2. Actor: Unauthenticated user tries to bookmarks a Tuit; System: Error Message: Sign in first.

Postconditions:

1. User bookmarks successfully.
2. User fails to bookmark because he/she did not sign in.

Use case name: User Jack follows another user Rose

Actors involved: User

Preconditions:

1. Jack is authenticated
2. Rose holds a public account or accepts Jack's following application.

Actor actions and System responses:

1. Actor: Jack follows Rose; System: Add Jack to Rose's follower list, and add Rose to Jack's following list.
2. Actor: Unauthenticated Jack tries to follow Rose; System: Error Message to Jack: Sign in first.
3. Actor: Rose holds a private account and accepts Jack as a follower; System: Add Jack to Rose's follower list, and add Rose to Jack's following list.
4. Actor: Rose holds a private account and rejects Jack's application; System: Info message to Jack: You are rejected.

Postconditions:

1. Jack follows Rose successfully.
2. Jack fails to follow Rose due to the reason of unauthenticated or rejected from Rose.

Use case name: User Jack messages another user Rose

Actors involved: User

Preconditions:

1. Jack is authenticated.
2. Jack is not on Rose's blacklist.
3. Message length within the character limit.

Actor actions and System responses:

1. Actor: Jack sends a message to Rose; System: Show the message in both users' conversation list.
2. Actor: Unauthenticated Jack tries to message Rose; System: Error Message: Sign in first.
3. Actor: Jack sends a message to Rose, but he is on her blacklist; System: Error Message: Fail to send.
4. Actor: Jack tries to send a message to Rose, but the message is too long; System: Error Message: Exceeding character limit.

Postconditions:

1. Jack sends the message to Rose successfully.
2. Jack fails to send the message because either he is unauthenticated, he is on the blacklist, or his message is too long.