Cesar Guerrero | Assignment #1 | CS5500 – Fall 2022

Use Case Name: User Posts a Tuit (postTuit)
Description:

- The user has something they want to share on the social media platform, so they craft a message (string) and post it to the site.

Actors Involved:

- User, Followers (Other Users), Other Users

Preconditions:

- User must be logged in
- User must have a message(string) they wish to post
- User must have links, media, etc. they wish to attach to their message

Action Steps:

1. The user logs into the site
2. **SYSTEM** authenticates their account
3. Upon successful authentication, they either navigate to the home page to post a tweet OR click on the **"TUIT BUTTON"** which is visible on any part of the website
4. The user first decides who exactly they want to see the tweet (EVERYONE or TUITER CIRCLE) and who they want to allow to reply to their tuit (Everyone, specific users, etc.)
5. They then write their message in the given textbox and craft their message. Note that they can include digital media, poll questions, emojis, and their location. Once they are satisfied, they hit submit
6. **SYSTEM** verifies that the Tuit is valid
7. **SYSTEM** publishes the Tuit, allows it to be seen on the platform, and ensures the Tuit can be seen in the appropriate locations on the site (User Profile, Explore Page, Etc.)

Postconditions:

- The Tuit is created and stored within the database
- The Tuit is now associated with the user and is stored on their profile
- Followers of the user will be **NOTIFIED** that the user posted a Tuit
- Other users on the site are potentially notified of the Tuit Post
- The Tuit is potentially disseminated throughout the site and can potentially show up on the **EXPLORE** Page or during a **TOPIC** Search
- The Tuit is now visible to others on the site and can be interacted with accordingly

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Use Case Name: User Likes a Tuit (likeTuit)
Description:

- The user is on Tuiter and sees a post that they want to **LIKE** so they click the LIKE BUTTON on the Tuit so that others know they support the Tuit

Actors Involved:

- User, Tweet Owner (Other User), Followers (Other Users), Other Users

Preconditions:

- User must be logged in
- User must not be blocked by the owner of the Tuit they want to like

- The Tuit must exist

Action Steps:

1. The user logs into the site
2. **SYSTEM** authenticates their account
3. Upon successful authentication, they either navigate to the **HOME PAGE, EXPLORE PAGE,** or **SEARCH BAR** to search for a Tuit.
4. Once they find the Tuit they want to **LIKE** they simply click the **HEART ICON** to like the Tuit.
5. **SYSTEM** increments **LIKE COUNTER**
6. **SYSTEM** notifies the owner of the Tuit that their Tuit was liked and notifies the **FOLLOWERS** of the user who completed the **LIKE** action
7. **SYSTEM** associates' user with the Tuit so others can see that the user liked the Tuit
8. **SYSTEM** ensures that the liked Tuit is stored under the **LIKE** section of the User's profile

Postconditions:

- The Tuit **LIKE COUNTER** is incremented
- The owner of the Tuit is **NOTIFIED** that the user liked their Tuit
- The user is now associated with the Tuit, and a **RECORD** of their **LIKE** is attached to the Tuit so anyone who navigates to the Tuit can now see that the user liked it
- The Tuit itself is now **STORED** under the **LIKE** section of the User's Profile and can be interacted with accordingly
- A record of the **LIKE** is stored within the database
- Followers of the user may be **NOTIFIED** that the user liked the Tuit

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Use Case Name: User Replies to a Tuit (replyToTuit)

Description:

- The user sees a Tuit on the platform and is motivated to add to the discussion by replying to said Tuit via the Reply Button on the Tuit (NOTE: A reply to a Tuit is in itself, a Tuit)

Actors Involved:

- User, Tweet Owner (Other User), Followers (Other Users), Other Users

Preconditions:

- User must be logged in
- User must not be blocked by the owner of the Tuit they want to reply to
- The Tuit must exist

Action Steps:

1. The user logs into the site
2. **SYSTEM** authenticates their account
3. Upon successful authentication, they either navigate to the **HOME PAGE, EXPLORE PAGE,** or **SEARCH BAR** to search for a Tuit.
4. Once they find the Tuit they want to **REPLY TO** they simply click the **MESSAGE BUBBLE ICON** to reply to the Tuit.
5. They craft their message and submit their reply to the Tuit (Note: Unlike posting a NEW TUIT, this reply will not let the user control who sees the post or who can reply. Additionally, the reply will also show you what Tuit you are replying to)
6. **SYSTEM** verifies that the Reply Tuit is valid

7. **SYSTEM** publishes the Tuit, allows it to be seen on the platform, and ensures the Tuit can be seen in the appropriate locations on the site (User Profile, Explore Page, Etc.)
8. **SYSTEM** increments **REPLY COUNTER**
9. **SYSTEM** notifies the owner of the Tuit that their Tuit was replied to and notifies the **FOLLOWERS** of the user who completed the **REPLY** action
10. **SYSTEM** associates' user with the Tuit so others can see that the user replied to the Tuit
11. **SYSTEM** ensures that the liked Tuit is stored under the **TUITS & REPLIES** section of the User's profile

Postconditions:

- The Tuit **REPLY COUNTER** is incremented
- The owner of the Tuit is **NOTIFIED** that the user replied to their Tuit
- The Tuit is created and stored within the database
- The user is now associated with the Tuit, and a **RECORD** of their **REPLY** is attached to the Tuit so anyone who navigates to the Tuit can now see that the user replied to it and can interact with their reply as well!
- The reply itself is a Tuit so it is now **STORED** under the **TUITS & REPLIES** section of the User's Profile and can be interacted with accordingly
- Followers of the user will be **NOTIFIED** that the user replied to the Tuit (i.e. posted a new Tuit)
- The Tuit is potentially disseminated throughout the site and can potentially show up on the **EXPLORE** Page or during a **TOPIC** Search

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Use Case Name: User Bookmarks a Tuit (bookmarkTuit)

Description:

- The user is on Tuiter and sees a post that they want to **SAVE PRIVATELY** so they bookmark it via the SHARE Icon on the Tuit

Actors Involved:

- User

Preconditions:

- User must be logged in
- User must not be blocked by the owner of the Tuit they want to bookmark
- The Tuit must exist

Action Steps:

1. The user logs into the site
2. **SYSTEM** authenticates their account
3. Upon successful authentication, they either navigate to the **HOME PAGE, EXPLORE PAGE,** or **SEARCH BAR** to search for a Tuit.
4. Once they find the Tuit they want to **BOOKMARK** they simply click the **SHARE ICON**
5. Within the dropdown options, they can click the **BOOKMARK OPTION** (NOTE: Bookmarking is a private affair so NO ONE will be notified, and it will not appear in a public place on the site)
6. **SYSTEM** stores the Tuit under the **BOOKMARK SECTION** of the user's account

Postconditions:

- The Tuit itself is saved within the **BOOKMARK SECTION** of the User's account. No one will know that this event occurred, and it will only be viewable by the user
- A record of the bookmark is saved within the database

Use Case Name: User Follows Another User (followUser)
Description:

- The User is on Tuiter and decides that they like another User so much so that they want to **FOLLOW** the other user on the site so they can be notified about the user's public activity

Actors Involved:

- User, Other User(User they wish to follow)

Preconditions:

- The user must be logged in
- The user must not be blocked by the user they wish to follow

Action Steps:

1. The user logs into the site
2. **SYSTEM** authenticates their account
3. Upon successful authentication, the user searches for the user they wish to follow using the **SEARCH TWITTER** bar on the Home Screen OR they can find a Tuit from said user
4. Once the user in question is found, the user only needs to go to their profile and click the **FOLLOW BUTTON**.
5. If the above is not desired, the user can go to a Tuit from the User they wish to follow and click on the **THREE-DOT ICON** on the top-right of the Tuit and click the **FOLLOW OPTION**
6. **SYSTEM** increments **FOLLOWING COUNTER** for User
7. **SYSTEM** increments **FOLLOWER COUNTER** for Other User
8. **SYSTEM** notifies the other user that someone new is **FOLLOWING** them
9. **SYSTEM** stores other user under the **FOLLOWING** section of the user who did the **FOLLOW ACTION**
10. **SYSTEM** stores user under the **FOLLOWER** section of the other user

Postconditions:

- The user you are following will be stored within **YOUR PROFILE** under **FOLLOWING** and the database will be updated to reflect this.
- Your FOLLOWING COUNT will be incremented
- The user you are following will now have you listed under **THEIR PROFILE** under **FOLLOWERS** and the database will be updated to reflect this.
- The other users FOLLOWERS COUNT will be incremented
- The user you followed will be notified
- You will begin to receive notifications and see the content of the user you followed as they post

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Use Case Name: User Messages Another User (messageUser)
Description:

- The User is on Tuiter and decides that they want to privately **MESSAGE** another user on the platform.

Actors Involved:

- User, Other User(User they wish to message)

Preconditions:

- The user must be logged in
- The user must not be blocked by the user they wish to message
- By default, the user you wish to message must be **FOLLOWING YOU.** Otherwise, if their settings are appropriate, you can message them

Action Steps:

1. The user logs into the site
2. **SYSTEM** authenticates their account
3. Upon successful authentication, the user clicks on **MESSAGES**
4. From there they click on the **NEW MESSAGE ICON**
5. They will be prompted to search for a **USER** to message
6. Once they find the user in question, the **SYSTEM** will create a **MESSAGE HISTORY SECTION**
7. The user can now send messages as they please to the other user
8. **SYSTEM** will appropriately store the messages in the database

Postconditions:

- The database will create and store a history of all the messages between you and the user
- Messages you have sent and received will be stored in the **MESSAGES** section and associated with your profile
- Messages you send to the other user will be stored in **THEIR MESSAGES** section and associated with their profile
- If you send a message to someone, they will receive a **NOTIFICATION**
- If you receive a message from someone, you will receive a **NOTIFICATION**