

Follows API:

Name: User follows another user

Analysis: If User Bob follows User Jack, Jack will be added to Bob's following list, and Bob will be added to Jack's follower's list.

HTTP method: POST

Path pattern: /users/:uid/follows/:followingid

Request: Follower User's PK, Following User's PK

Response: New Follows JSON

Name: User unfollows another user

Analysis: If User Bob unfollows User Jack, Jack will be removed from Bob's following list, and Bob will be removed from Jack's follower's list.

HTTP method: DELETE

Path pattern: /users/:uid/follows/:followingid

Request: Follower User's PK, Following User's PK

Response: Delete status

Name: User views a list of other users they are following

Analysis: User Bob will see a list of other users that Bob followed before.

HTTP method: GET

Path pattern: /users/:uid/follows

Request: User's PK

Response: User JSON Array

Name: User views a list of other users that are following them

Analysis: User Bob will see a list of other users who are fans of Bob.

HTTP method: GET

Path pattern: /users/:uid/follows/fans

Request: User's PK

Response: User JSON Array

Name: User removes one follower from their following lists

Analysis: If User Bob do not like User Jack maybe due to some privacy reason, Bob can remove Jack from his fans list so that Jack is no longer following Bob.

HTTP method: DELETE

Path pattern: /users/:uid/follows/fans/:followingid

Request: Follower User's PK, Following User's PK

Response: Delete status

Name: User follows another user secretly

Analysis: If User Bob wants to follow User Jack. But Bob does not want Jack to know this, then Bob can follow Jack secretly. As the result of it, only Bob can see Jack in his following list. User Peter cannot see Jack in Bob's following list. However, Jack's follower number will

count Bob. For example, if Jack does not have any other follower except Bob, Jack's follower number will be 1 even Jack would not know who is this.

HTTP method: POST

Path pattern: /users/:uid/follows?tagid=-2/:followingid

Request: Query parameter tagid = -2, Follower User's PK, Following User's PK

Response: New Follows JSON

Bookmarks API:

Name: User bookmarks a tuit

Analysis: When a user likes a Tuit and wants to make a special mark of that tuit, the user can bookmark that tuit. In the future, users can view the tuits they bookmarked earlier easily.

The HTTP method is PUT because users are putting tuits into bookmark list instead of creating a bookmark relationship instance. So, bookmarking a tuit is actually update user's bookmark list.

HTTP method: PUT

Path pattern: /users/:uid/bookmarks/:tid

Request: User's PK, Tuit's PK

Response: Update status

Name: User unbookmarks a tuit

Analysis: If a user is no longer interested in a tuit or the user would not need it anymore in the future, the user can unbookmarks the tuit. This tuit will be removed from the user's bookmark list. The HTTP method is PUT because of the same reason as above.

HTTP method: PUT

Path pattern: /users/:uid/bookmarks/remove/:tid

Request: User's PK, Tuit's PK

Response: Update status

Name: User views a list of tuits they have bookmarked

Analysis: If a user wants to see tuits they bookmarked, they can view a array of tuits.

HTTP method: GET

Path pattern: /users/:uid/bookmarks

Request: User's PK

Response: Tuit JSON Array

Name: User empty their bookmark lists

Analysis: If the user thinks there are just too many bookmarks, and the user does not want to delete all bookmarks one by one manually. Then there is an option for them to empty their bookmarks list by click one button easily.

HTTP method: DELETE

Path pattern: /users/:uid/bookmarks

Request: User's PK

Response: Delete status

Name: User view a single bookmark

Analysis: If user wants to view a specific bookmark, he/she can choose one tuit among all tuits in his/her bookmark list. Then the user can view the tuit he/she interested in.

HTTP method: GET

Path pattern: /users/:uid/boomakrs/:tid

Request: User's PK, Tuit's PK

Response: Tuit JSON

Messages API:

Name: User send a message to another user

Analysis: If a user wants to send a private message to another user without been seen by other users, the user could use direct message function. The message works like a email that only send and the receiver can see this message.

HTTP method: POST

Path pattern: /users/:uid/messages/:receiveid

Request: User's PK, message in body

Response: New Message JSON including PK

Name: User views a list of messages they have sent

Analysis: A user can see all messages he/she sent to other users.

HTTP method: GET

Path pattern: /users/:uid/messages/sent

Request: User's PK

Response: Messages JSON Array

Name: User views a list of messages sent to them

Analysis: A user can see all messages he/she received from other users.

HTTP method: GET

Path pattern: /users/:uid/messages

Request: User's PK

Response: Messages JSON Array

Name: User deletes a message

Analysis: If a user feels that there are too many messages, or the user wants to delete some message for some reasons. The user can delete it, and the message will be removed from both side. Neither the sender and the receiver can see this message any more.

HTTP method: DELETE

Path pattern: /messages/:msgid

Request: Message's PK

Response: Delete status

Name: User views a message

Analysis: A user can view a specific message from the list of messages the user received and sent.

HTTP method: GET

Path pattern: /messages/:msgid

Request: Message's PK

Response: Message as JSON

Name: User pins a message

Analysis: User can pin a message that the message will be top of user's view list.

HTTP method: PUT

Path pattern: /messages?pin=1/:msgid

Request: Query Parameter pin = 1, Message's PK

Response: Update status