Model Diagram

User

-name : string = ""

Member

-rank : string
-postsPosted : int = 0

+post()
+flagPost()
+vote()

Moderator

+deletePost()

Administrator

+addUser()
+deleteUser()
+promoteUser()
+demoteUser()

Post

-text : string
-flag : bool
-userPosted : User

Topic

-tag : Tag

Reply

-voteCount : int
-topic : Topic

Comment

-post : Post

Tag

-name : string