### **HW #4 Group Assignment: Twitter Client Assignment**

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#### **Abstract:**

The Twitter REST APIs provide developers with programmatic access to read and writer Twitter data. With their REST APIs you can post tweet, retrieve followers, access followers' profile and more. The Twitter APIs are so complete and well-documented.

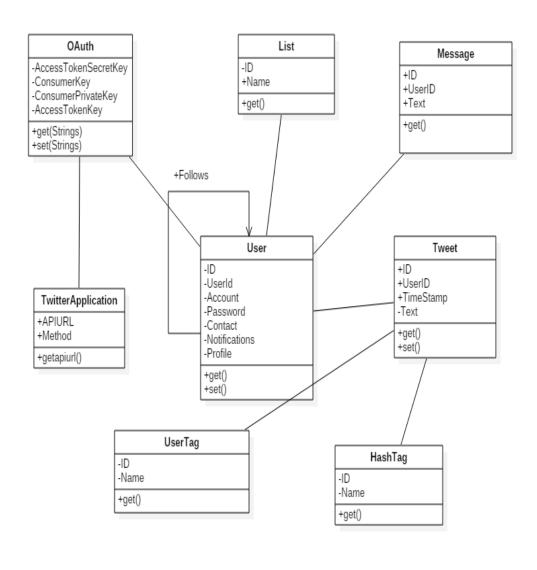
In Twitter, by using hash-tags in Tweets people can give a subject to a particular message and via this subjects tweets can be and more information comes available to users of Twitter but also anyone else on the web.

REST - (**RE**presentational **S**tate **T**ransfer), an architectural style for web services, is getting more and more popular in recent years. Many leading vendors have opened the doors of their services to developers, providing them with restful accesses to different web services. Twitter is one of the most well-known vendors that uses REST API.

Our Web Application demonstrates Twitter API along with proper implementations and the results. The important functionalities include that of posting status from application, search users and their profile pictures, get user time information and others. This enables a user to get easily information about friends, family and other interesting people through this application.

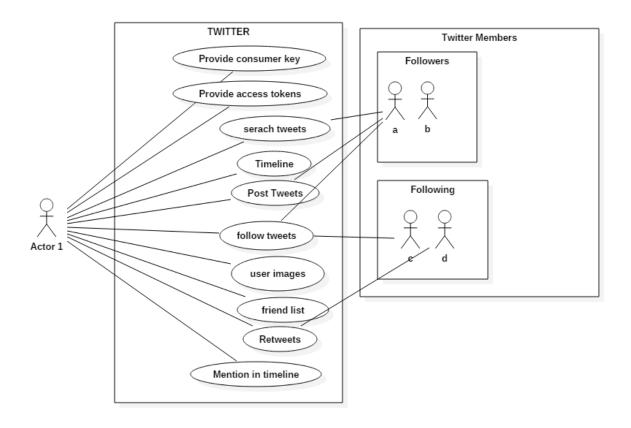
## **UML Diagrams:**

### **Class Diagram:**



Tweets are connected to exactly one User. An interesting aspect of Twitter is the followers/following structure, basically Users which are connected to other Users.

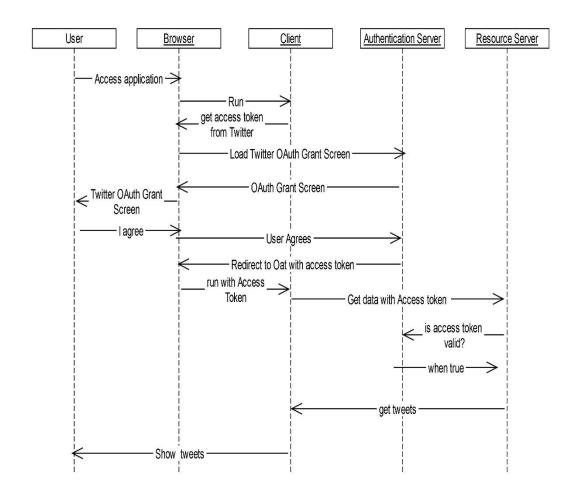
# **Use Case Diagram:**



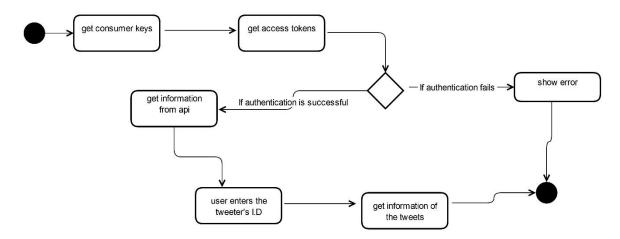
Use case	Post Tweets
Description	Posting a tweet on the account that is own by the person who is posting the tweet.
Actors	User, Followers, the system (Twitter.com)
Pre-conditions	1. User is logged in.
Post- conditions	Tweets must be shown on the profile of the user and all his followers.  The tweets must contain exactly the same text as entered by the user.
Steps	<ol> <li>Go to Twitter.com</li> <li>Enter text in to the 'what's happening?' textbox</li> <li>Press the tweet button.</li> </ol>

Variations	A picture is shown of the so called Following and followers
Non-functional requirements	Availability, performance, quality

# **Sequence Diagram:**



### **Activity Diagram:**



#### **Screenshots:**

Figure 1: Search Tweets By Tags

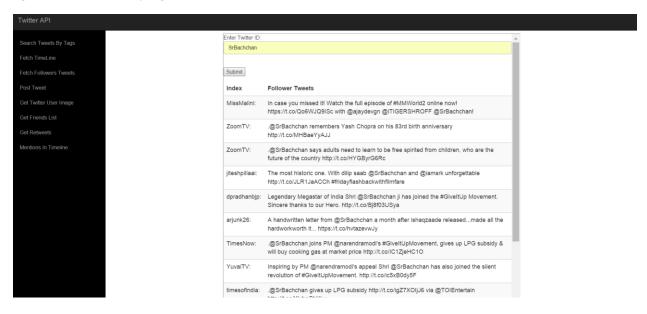


Figure 2: Fetch TimeLine

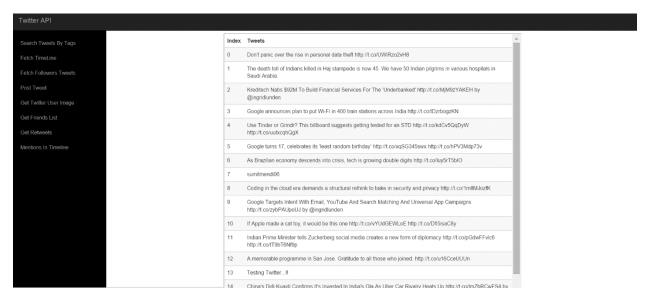


Figure 3: Fetch Follower Tweets

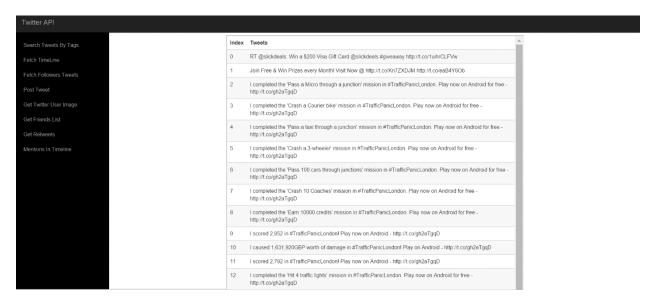


Figure 4: Post Tweet

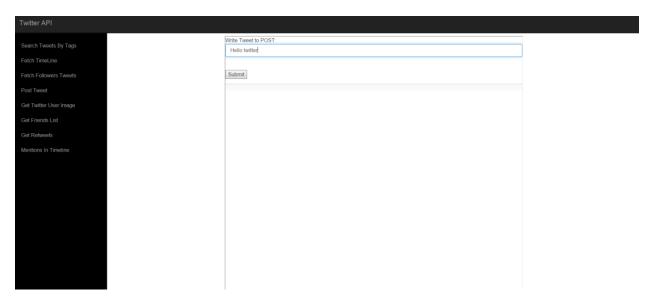


Figure 5: Get Twitter User Image



Figure 6: Get Friends List

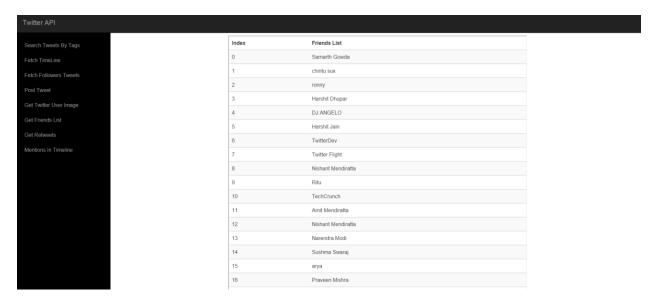


Figure 7: Get Retweets

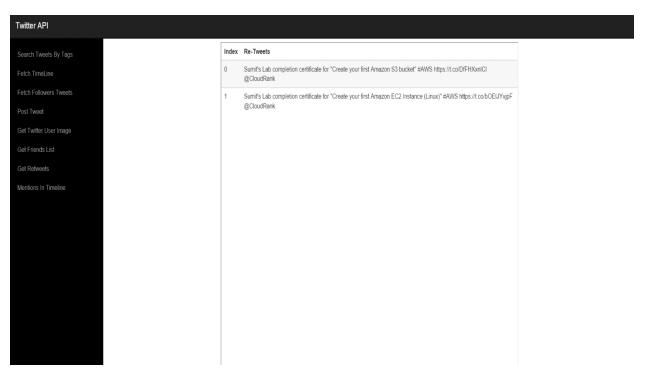


Figure 8: Mention in Timeline

