Twitter Exercise

Twitter is an online social networking and microblogging service that enables users to send and read "tweets", which are text messages limited to 140 characters. For this exercise, we will attempt to create a simplified version of Twitter (Source: http://en.wikipedia.org/wiki/Twitter).

Exercise 1

Case: A user account in twitter has the following:

- Username
- Password
- First name
- Last name
- List of tweets (up to 20 tweets)
- Tweet count

A tweet has the following components:

- The message (limit of 140 characters)
- Date and time posted (should **automatically** be set to the current time and date, format: m/d/y hour:min)

Every user account can post a tweet assuming they have not exceeded the prescribed limit of 20 tweets. They can also delete their own tweets. They can view all their tweets or view their own tweets based on a searched keyword/hashtag. Searching is **not** case-sensitive.

Tasks:

1. Write your class diagram.
2. Create your driver class and create a single user account named: "TonyStark".
3. Create a menu that will allow the user to:
   a. Post a tweet – should notify user if the maximum character limit is exceeded
   b. Display all tweets
   c. Search for a tweet given a keyword or phrase – displays all relevant results
   d. Delete a tweet – display all tweets and allow user to choose a tweet to delete based on its tweet number.

Checking:

1. Post the following tweets for Tony Stark's account:

1	Genius, billionaire, playboy, philanthropist. #badass
2	The Avengers. It's what we call ourselves, sort of like a team. "Earth's Mightiest #Heroes" type thing. #BADASS
3	There's a shawarma joint about two blocks from here. I don't know what it is, but I wanna try it. #avengers #foodTrip

2. Display all tweets.
3. Search for "#badass". Display the results.
4. Search for "avengers". Display the results.
5. Delete the tweet 2 and 3. Display the remaining tweets.

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