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import nltk
from nltk.sentiment import SentimentIntensityAnalyzer
from textblob import TextBlob
nltk.download('vader_lexicon')

class Tweet:
    def __init__(self, content, user, timestamp):
        self.content = content
        self.user = user
        self.timestamp = timestamp
        self.sentiment = None

    def analyze_sentiment(self, analyzer='nltk'):
        if analyzer == 'nltk':
            sid = SentimentIntensityAnalyzer()
            sentiment_scores = sid.polarity_scores(self.content)
            self.sentiment = sentiment_scores['compound']
        elif analyzer == 'textblob':
            blob = TextBlob(self.content)
            self.sentiment = blob.sentiment.polarity
        else:
            raise ValueError("Invalid sentiment analyzer. Use 'nltk'
or 'textblob'.")

class SentimentAnalyzer:
    def __init__(self, tweets):
        self.tweets = tweets

    def analyze_all_tweets(self, analyzer='nltk'):
        for tweet in self.tweets:
            tweet.analyze_sentiment(analyzer)

    def get_average_sentiment(self):
        if all(tweet.sentiment is not None for tweet in self.tweets):
            sentiments = [tweet.sentiment for tweet in self.tweets]
            average_sentiment = sum(sentiments) / len(sentiments)
            return average_sentiment
        else:
            raise ValueError("Sentiments not analyzed for all
tweets.")

# Example usage:
if __name__ == "__main__":
    # Creating Tweet objects
    tweet1 = Tweet("I love Python! #coding", "user1", "2024-01-05
12:30:00")
    tweet2 = Tweet("Feeling sad today. #MondayBlues", "user2", "2024-
01-05 15:45:00")

    # Creating a list of tweets
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    tweets_list = [tweet1, tweet2]

    # Creating a SentimentAnalyzer object
    sentiment_analyzer = SentimentAnalyzer(tweets_list)

    # Analyzing sentiments using NLTK
    sentiment_analyzer.analyze_all_tweets(analyzer='nltk')

    # Getting the average sentiment
    average_sentiment = sentiment_analyzer.get_average_sentiment()

    print("Average Sentiment:", average_sentiment)
```

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Average Sentiment: 0.1439
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```
[nltk_data] Downloading package vader_lexicon to /root/nltk_data...
```