In [2]:

```
import random
from datetime import datetime, timedelta
def generate_reviews():
    types = ['positive', 'negative', 'neutral']
    reviews = []
    for _ in range(30):
        review = {
            'reviewer_name': f"User{_ + 1}",
            'type': random.choice(types),
            'date': datetime.now() - timedelta(days=random.randint(0, 29))
        }
        reviews.append(review)
    return reviews


def get_max_reviews_user(reviews, review_type, target_month):

        return None
    user_counts = {}
    for review in filtered_reviews:

    return max_user, user_counts[max_user]


topics_data = {}
for i in range(20):
    topic_name = f"Topic{i + 1}"
    topics_data[topic_name] = generate_reviews()


current_month = datetime.now().month
last_month = (datetime.now() - timedelta(days=30)).month


maxnegativeuserthismonth, max_negative_count_this_month = get_max_reviews_user(sum(topics_d
print(f"User with maximum negative reviews this month: {max_negative_user_this_month}, Coun


max_negative_user_last_month, max_negative_count_last_month = get_max_reviews_user(sum(topi
print(f"User with maximum negative reviews last month: {max_negative_user_last_month}, Coun


max_positive_user_this_month, max_positive_count_this_month = get_max_reviews_user(sum(topi
print(f"User with maximum positive reviews this month: {max_positive_user_this_month}, Coun


max_positive_user_last_month, max_positive_count_last_month = get_max_reviews_user(sum(topi
print(f"User with maximum positive reviews last month: {max_positive_user_last_month}, Coun
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User with maximum negative reviews this month: User11, Count: 6
User with maximum negative reviews last month: User19, Count: 7
User with maximum positive reviews this month: User7, Count: 8
User with maximum positive reviews last month: User14, Count: 7
```

In [ ]:

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