

Twitter

Group info

Team Members:

1. Kiran Kumar Reddy Gorantla – 9383 3393
2. Yashaswi Karnati- 1993-0168.

Instructions to run the program:

1. Navigate to project folder
2. mix compile
3. mix run proj4.exs "noofusers" "noofmsgs"

Testing the project:

The ex-unit test cases are written in the test folder of the project. We can run the ex-unit test cases with the below command

1. mix test

Implementation:

We used ets in memory tables in the server process to store all the information about users, their subscribers, mentions and tweets. Each user is spawned as a genserver and one genserver acts as the server, one genserver for distribution/simulation of tweets. Number of subscribers, tweets by each user is taken from zipf distribution. All the tweets are generated from a list of random strings. Once a tweet is made, it is sent to the server, server parses the string to see if there is any mention, hashtag. This mention, hashtags info is stored in ets tables. Each user receives tweets from their subscribers, so the users feed is composed of his tweets, tweets from those he follows and tweets in which he is mentioned.

Bonus

Implemented zipf distribution

The number of subscribers each User subscribes to, is made into a zipf distribution. Each user is assigned a rank based on index in the list, the max number of subscribers a user can have is NumofUsers-1.

