

SocialSim User Guide

Hello & Welcome to MyNiftyJavaRepo's Social Document Network simulation, SocialSim!

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The following User Guide will familiarize you with running the SocialSim simulation. This simulation models the behaviour of Consumers and Producers, who access and modify a network of documents over time. The simulation will run for a number of turns (specified by the user).

Consumers search the network for documents, liking documents that match their interests. In addition, Consumers will follow the document's Producer as well as the users (Consumers or Producers) who like the same documents.

Producers act as Consumers, except that they also create and upload documents.

Running the Simulation

- The simulation begins by requesting user input for the number of:
 - Producers
 - Consumers
 - Turns
- Next, it asks for each Producer's taste (aka, the tag), represented as a String
- Producers are created along with an initial document (which they like). The document contains their tag
- Consumers are created with a tag randomly selected from the list of Producer tags
- The current status of the simulation (documents and users) is printed
- The simulation then asks the user if they would like to begin:
 - Y = yes, let's begin!
 - N = exit the program :(
- The simulation will complete its first turn, randomly selecting either a Producer or Consumer
- It will then search for the k most popular documents ("k" specified by the user)
- The selected user will then take a turn
 - Consumer: Looks at search result. Liking documents that match its tag, follow Consumers/Producers that like the same documents, and following the Producer of any newly liked document.
 - Producer: Creates and likes a new document. It then follows the same procedure as the Consumer.
- At the end of a turn, the simulation's current status is printed (documents & users)
- This repeats until the user quits or the number of turns is reached