| User 1 | User 2 | User 3 | User 4 | User 5 | User 6 |

Load Balancer

Node 1 ←→ **Node 2**

Blob [Storage]

Gesture Recognizer

Hate speech detector

Node
- - - - - - - - - -
Max connections
Current connections
Inactive connections

User
- - - - - - - - - -
Unique Id
Password Hash
List of Friends
Block List

Conversation
- - - - - - - - - -
User 1 id
User 2 id
conversation text
[encrypted]

Design Diagram for a Messaging App