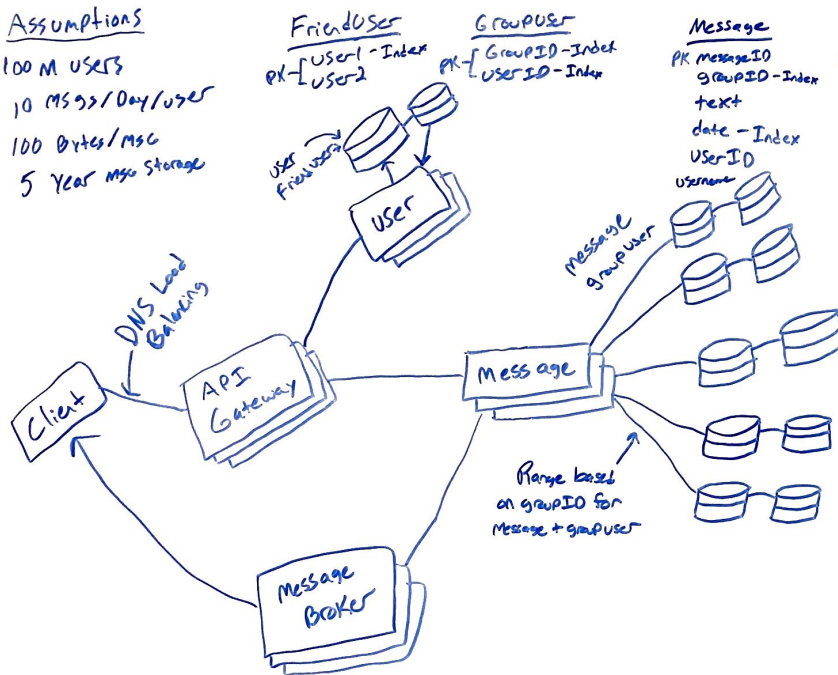


Assumptions

100 M users
10 MSGS/Day/user
100 Bytes/MSG
5 Year MSG Storage



180TB / 5 Yr
1.8T MSG/5Yr
1.2 MB/s
12K MSG/s

Requirements

- Group Chat
- Online/offline status
- chat history
- Push notifications

Notes

- generate groupID by hashing userID's

API

Post /signin {username, password} → token
Post /signup {username, password} → token
Post /friend {username, password} → T/F
Delete /friend/:ID → T/F
Post /message {groupID/userID → Message
text}
Get /messages/:GroupID/:startNum → 10 Messages
Get /Groups → Groups
Get /status → user statuses