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# KeyWave

# Plan

- Initial fiecare scrie o parte din server (I.1 I.3)
- Fiecare isi scrie cod de client pentru functionalitatea de server pe care o scrie
- · Ideal ar fi sa folosim ceva pachet de testing

# Todo's

## I. Server

• server will be async (through a package named asyncio, or something along that line)

## I.1 Database - store user/pass pairs

- some sql package (sqlite probably)
- · verify if login info is correct
- · add / delete users

# I.2 Map to store user/socket pairs

- hashmap / Iru / something
- point is to have a get\_socket(user) function to figure out where to send a message

## I.3 Temp storage for messages

- some data structure to hold messages, possibly using queues.
- if message recipient is not online (not in the map), store the message and send to the user at a later time

# I.4 Message handler (use all of the above)

#### II. Client

## II.0 Read connections file

skippable until we finish the rest of the server

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# II.1 Login request on start

- · prompt for user/pass
- · socket connection request

# II.2 CLI

• navigate between different menus with keys (like Home, Chat with [name], New connection)

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- updates handled by system("clear").
- update on NEW\_MSG event
- · send messages to the server

# III. Key exchanges

- (we'll get there a bit later)
- figure out how the protocol works
- · handle key exchange events in the server
- · store the newly made connection in the connections file for later usage

# IV. Send encrypted messages

- · encrypt with a specific key for the desired recipient
- send encrypted message to the server
- · handle encrypted message forwards in the server

# V. Documentatie

• asta o lasam la final, facem toti (si alte glume bune pe care ti le spui cand te-a parasit nevasta)