ARCHITECTURE DESIGN

Nome del programa: CLUSTER!! TEMPORANEO!!

2 PROGRAMMI: main-schver (escynito de desmon um)

client.

node-creation

losd-boloncer (stupido e bonele)

POSSIBILLUMO VAGGI: RUST, GO

i programmi operano in locale su una stessa macchias,

l nodi: saranho delle v H, inizialment 3 por

rindondanza.

l nodi: potrahho essere aggiunti trummite

instanza del programma node-creation.

VIV .

```
17A/W SERVER:
```

```
VAR STATO { FOLLOWER, LEADER, NON_VOTANTE, UNKNOWN } = UNKNOWN
```

```
Main(){

CUOROUTINE ( input_messages() );

CUOROUTINE ( in cout_data user C) ];

wait( >> ) //while true } }
```

TINEOUT-N= COLLINON + RANDON

fun input_messages }

```
While (TRJE) du

rec v (APPENDENTIZ y m). TINEUUI (TIN EUVI - N)

• OK (SSYNC resd - mess-ye (m));

• FAIL (Ssync indici - elezionic)

done
```

```
for indice _ elezioni ()

broddcost message (REQUEST_VOTE:

- My_ TERN

- My_ TERN

- My_LAST_LOG_INDEX

- M_LAST_LOG_TERN

), send()
```

```
Nunuplate_ixdex = 0
USV Voted- (OY = NIL
 fn teal-message m }
       switch type_message(m){
             C 250 2-0 %
                                    HMEALLTBLT LEADER
                state = follower
                if(check_consistency(&_e.prev_by_index,
&_e.prev_log_term))
                     send (lesder, ETRUE,
171_TERN7);
                      update - state (2-e. entrys, prevalge index);
                      update index [ > e. lez der_commit);
                 else
                      Send [ leader, { FALSE, MY_TERMY);
                  ores K.
               cise rey-v: 1112EanEST VOTE
                    if (( voted_ful- == NLL) & log-chcck (req.v.l.) teq.v.l.st-log.indx,
                   Es (rcq_vaterm < my_term)
                        send (my_term, FALSE)
                        scrd (my_term, TruE)
                      endi(;
```

