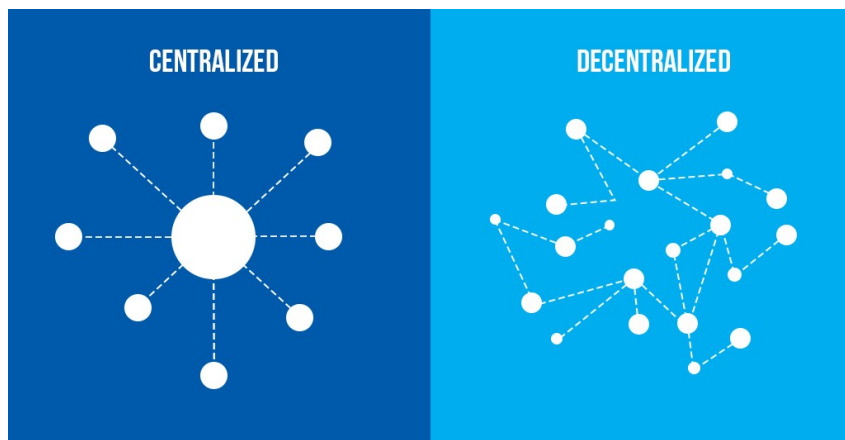


Deep Messenger

Učenik - Roko Dobovičnik
Mentor - Marko Stojanović

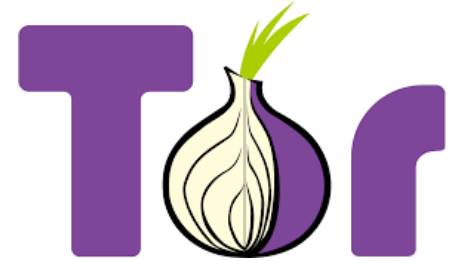
Što je Deep Messenger?

- Decentralizirana chat aplikacija
- Koristi Tor mrežu kako bi osigurala anonimnost korisnika
- Implementira dostavu poruka putem Mailboxa (Poštanskog sandučića)



Biblioteke

- OpenSSL
- Libevent
- Ncurses
- Tor klient
- SQLite



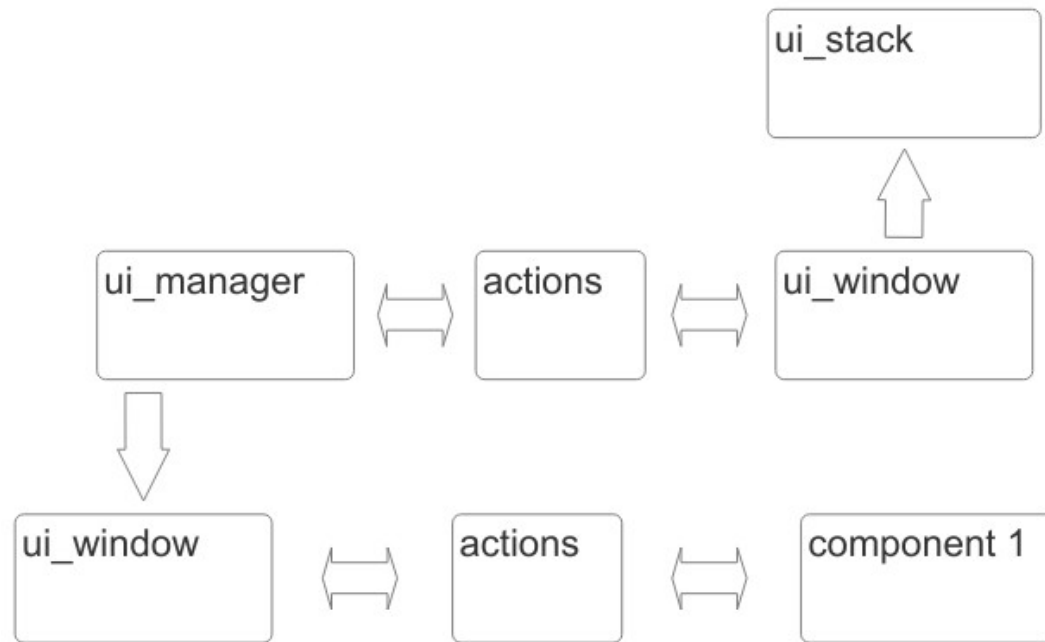
Alati

- Git
- Github
- GNU Make
- GCC kompajler



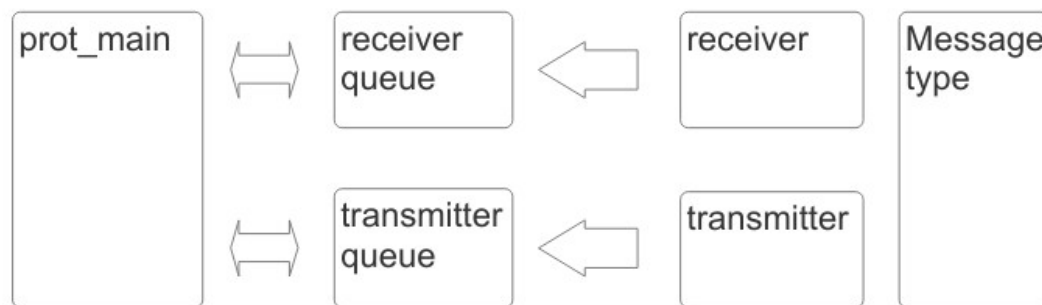
UI dizajn

- Korisniško sučelje sastoji se od
 - Stoga sučelja
 - Menadžera sučelja
 - Bazne komponente prozor
 - Ostalih komponentenata



Implementacija protokola

- Implementacija se sastoji od
 - Glavnog upravitelja protokola
 - Pojedinih tipova poruka



Pomoćne funkcije

- Base32 enkodiranje
- Dinamički nizovi
- Socks5 klijent
- Generički queue
- Upravljanje onion adresama
- Modeli baze podataka
- Kriptografske operacije nad bufferima

Izgled sučelja

```
Terminal - roko@konzerva: ~/deep_messenger_testing
File Edit View Terminal Tabs Help
Deep Messenger
> console
@bob
[Tor] Jun 04 09:32:39.000 [notice] Bootstrapped 15% (handshake_done): Handshake with a relay done
[Tor] Jun 04 09:32:39.000 [notice] Bootstrapped 75% (enough_dirinfo): Loaded enough directory info to build c
ircuits
[Tor] Jun 04 09:32:39.000 [notice] Bootstrapped 90% (ap_handshake_done): Handshake finished with a relay to b
uild circuits
[Tor] Jun 04 09:32:39.000 [notice] Bootstrapped 95% (circuit_create): Establishing a Tor circuit
[Tor] Jun 04 09:32:40.000 [notice] Bootstrapped 100% (done): Done
[Tor] client ready
CONSOLE
[Deep Messenger]
Version 1.0.0
Made by rdobovic
Type help for the list of commands
Type your message:
>
```


Hvala na pažnji

Slijedi demonstracija