

Etherchat

Adventures in Irritation Driven Development
h/t to Eddie Lay

I have over 500 logins stored in IPassword. Only maybe twenty of them are for banks or paid services where a user account is actually necessary.

In many cases I simply wanted to look at something and then never visited that website again, leaving behind a useless account linked to my email.

This project questions this design assumption and explores an alternative approach.

What features do users expect from user accounts?

- privacy - my chats are my own
- sharing - sharing is my choice

How are these features provided by existing services that don't have user accounts?

- privacy - <https://yakgpt.vercel.app> uses a uuid to generate an anonymous page
- sharing - <https://etherpad.org> uses a crdt data structure to share anonymous pages

How can we provide these features in Phoenix LiveView?

- privacy - a random string generator for new pages
- sharing - Phoenix PubSub

Controller code to generate a random page

```
def home(conn, _params) do
  chat = MnemonicSlugs.generate_slug(3)
  redirect(conn, to: "#{chat}")
end
```


Then put the live page first in the router

```
live("/:chat", ChatLive)  
get("/", PageController, :home)
```

Code to allow the user to create a new random page

```
push_navigate(socket, to: "/", replace: true)
```

Code to allow the user to create a custom page

```
new_page = URI.encode_www_form(custom)  
push_navigate(socket, to: "#{new_page}", replace: true)
```

This project, powered by ChatGPT, is designed as an AI coding assistant with Phoenix PubSub providing real-time sharing for pair programming.

And having no requirement for user accounts makes using it friction free.

Advantages and disadvantages of Phoenix LiveView

Phoenix PubSub makes real-time sharing relatively simple, 3 lines of code, where similar functionality in Etherpad requires more complex crdts.

The static front page of an Etherpad site helps to make the intended usage clear to the user. The LiveView single page architecture requires more attention to UI design.

Project site -> <https://etherchat.net>

Project repo -> github.com/loteks/etherchat

Etherpad demo -> <https://indiepad.net>

Many thanks to Brooklin and all my Cohort peeps :)

