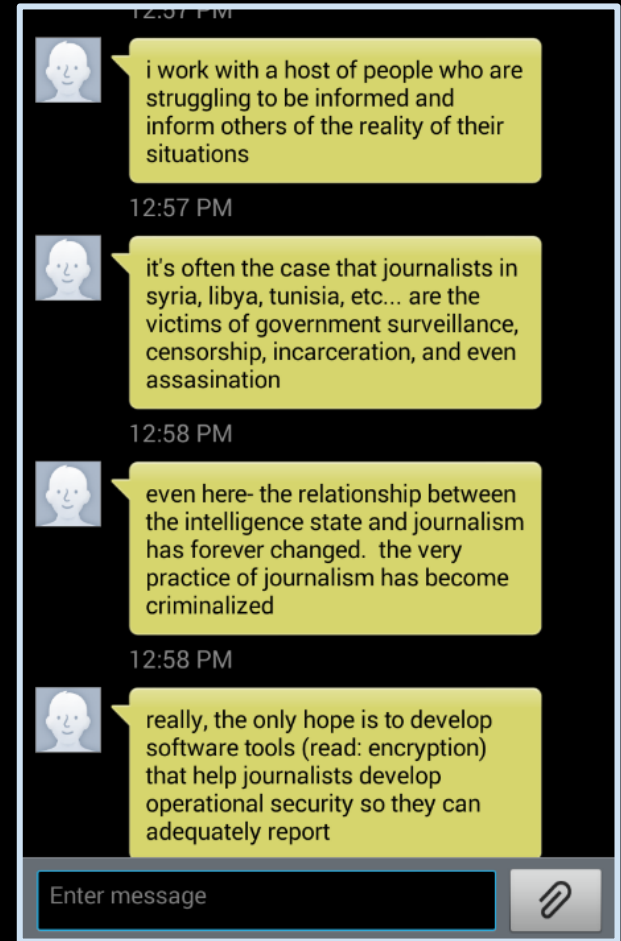


Pitkin: Secure Journalism

Danny Gibson -- January 21, 2014

Description

- An anonymous app, hosted as a Tor service
- “One stop shop” for journalistic cycle
 - Research
 - Return information from search bar
 - Chat client
 - Save and access work
 - Writing drafts, saving changes
 - Publish
 - Anonymous publishing
 - This might not be a Tor service
 - ie, readers in “regular browsers”
 - Reward
 - Cryptocurrency tipping



Justification

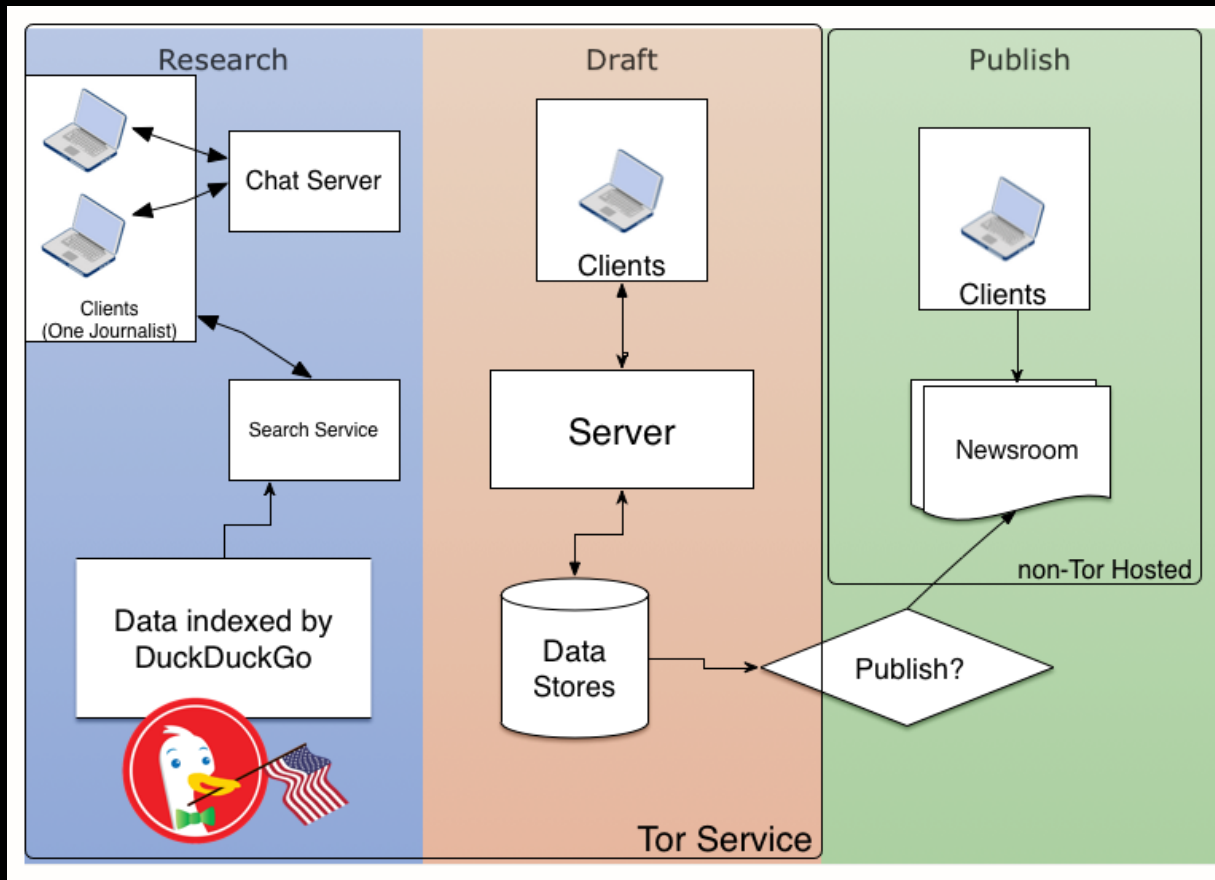
- Incorporate APIs (DuckDuckGo, BitCoin)
- Set up Tor for one or more services
- Write my own API
 - GET on saved data, published pieces
 - POST with drafts
 - etc
- Data structures for storage
- Eye on security,
 - Implement (or at least research and use) a crypto-currency tumbler

User's Point of View

- Research
 - Search bar and results column
 - User defined chat rooms
- Drafting
 - “Blank space” for writing
 - Directory structure UI
- Publish
 - One button publishing
 - Modal to double check for anonymous option
 - Simple blog roll, categorized
 - Payment by QR code



Operations



Technologies

- Node.JS project
 - Express API
 - Testing with Jasmine
- Tor
- Styling
 - SASS for stylesheets
 - Jade for Mark UP
 - Maybe Marionette for rendering Views (open to suggestions)
- Database
 - Will probably start with Mongo

Preliminary Development Schedule

- Tasks (w/ preliminary guess on which week task ends [By class date])
 - My own API (6 weeks)
 - Research Tools
 - Chat Server (4 weeks, this is a pretty typical node tutorial)
 - Search tool (using DuckDuckGo, 5)
 - Reading and Writing from Data Store (10 weeks)
 - Authentication is the big question mark at this point
 - Publishing from Data Store (12 weeks)
 - Clean front-end for Drafting and Published work (13 weeks)

Conclusion

- Node Web App
- Chat, search, and drafting provided as a Tor Service
 - IPs aren't traced
 - User must have Tor enabled
- Reading is a non-Tor web-app, basically a categorized blogroll

Questions

