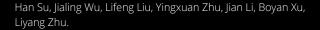
Loop Users in: The Key to Cross-Platform Data Interoperability (Work in Progress)



Presented by: Han Su Futurewei Technologies hsu@futurewei.com



Privoce



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# Research Interest

Web 3.0 WebAssembly and Universal App Development

Webapp can now have the same affordance as native app. If the mini-program ecosystem of WeChat is so prosperous, the web app ecosystem must also have a bright future. Personal Cloud Computing, Privacy and Data Ownership

The future app development have to align with the privacy laws. We are interested in designing ways to enable users to manage their data, data profiles, and who access rights. Or make user data as user-owned APIs.

#### Internet Media Studies

Internet has become the most prominent medium in today's globe. Media studies today has become more and more Internet fouced, and media scholars today need to understand the technology before providing constructive critics.

# Table of Contents

**01** State of the Union



**03** Product & Market

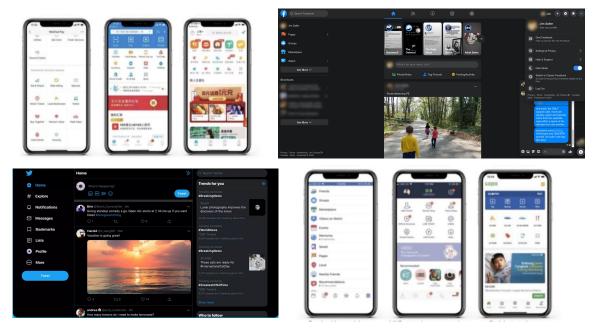
04 Meet our Global Team

# State of () the Union

#### App stores have the macro-control power the app market (30% Apple Store Customary Fee).

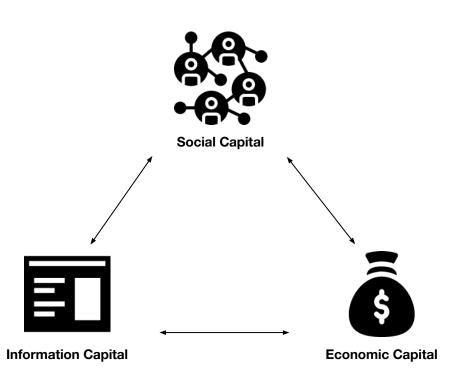
Super Apps are converging (Mini Program Ecosystem).

Social connections have become the assets of the platforms (We will make it native on browser as user API).



# But users don't own their data

Social connection and personal data profile, etc.



# **Problems**

#### Privacy and Data Ownership Issues

Tech giants data collecting process and microuser data profiles are off the control of users.

#### Centralized App Ecosystem

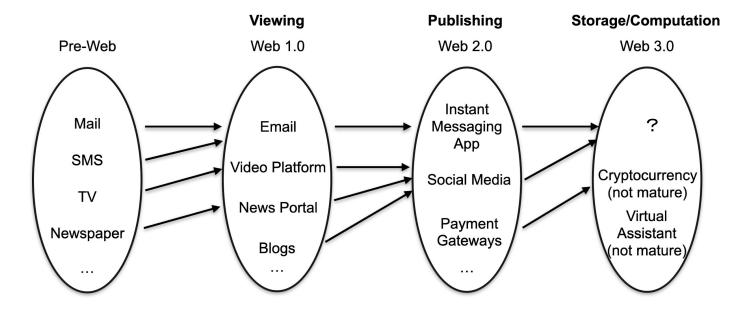
Giant app is unhealthy for the market: Facebook's monopoly on social media, China's intranet, the US banning TikTok and WeChat.

#### Lack of Interoperability

Users have various data stored in different apps that are not interoperable. There lacks a way to let user store their own data at one place, and each app get read/write access to the data in a transparent way.

# Revolution 02 Evolution

# The Evolution of the Internet



# What we are building?

From browser extensions to a social web browser.

# A Personal Social Web Browser

Private social sphere, no followers.

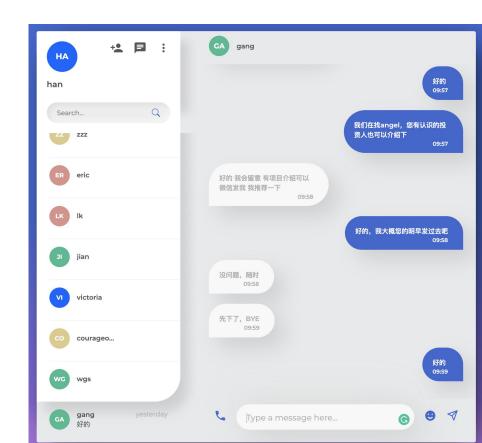
#### Portal

Composable personal portal page with your frequently used webapps.

#### 20:36 Tuesday, 22 September Custimized **Google Calendar** To-do Faculty | Carnegie Mellon School of Design Name https://design.cmu.edu/people Overview < Future Sketches -- MIT Media Lab window 2 Title of the Webpage (Have Opened) Title of the Webpage This is a side note example of why I save this link to window 3 **Notifications Center** Title of the Webpage Title of the Webpage Title of the Webpage Title of the Webpage

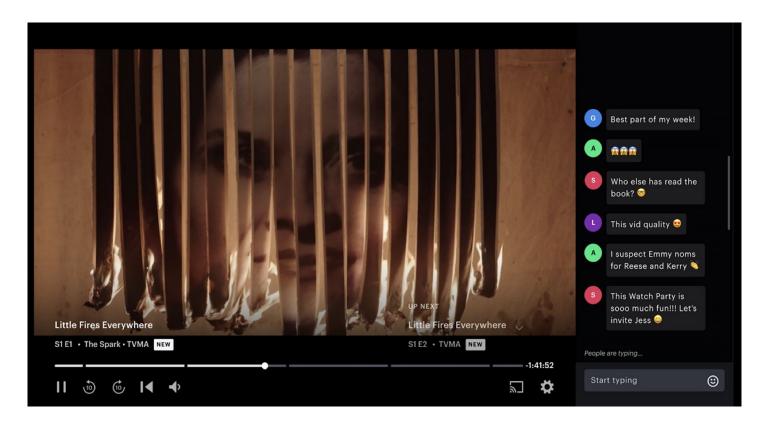
## **Portal Chat**

Browser native social connection along with chat features.



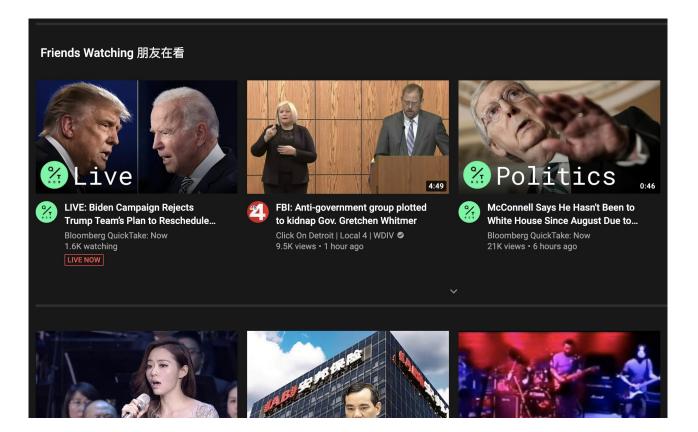
## **Watch Party**

Watch party on any website with browser native social connections.



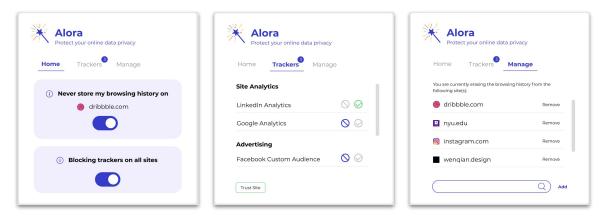
#### **Social Connections as an API**

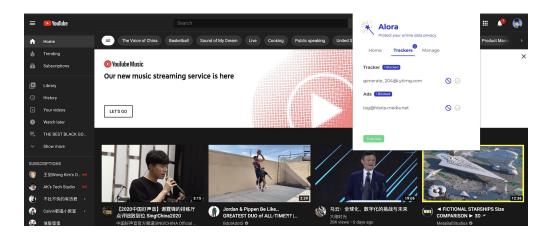
We help content-centric platforms do social-based content distribution.



## **Alora Privacy Protection (Published)**

Automatically clean history and block trackers





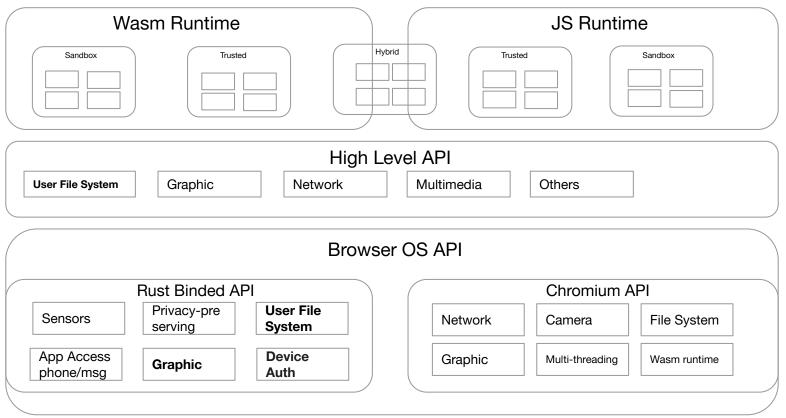
# A Lighter Social Web OS

Web Assembly + JS Runtime. Private social media. Social as a service.

## **Native App On Browser**

Native performance, no downloading.

Privoce Web3.0 OS

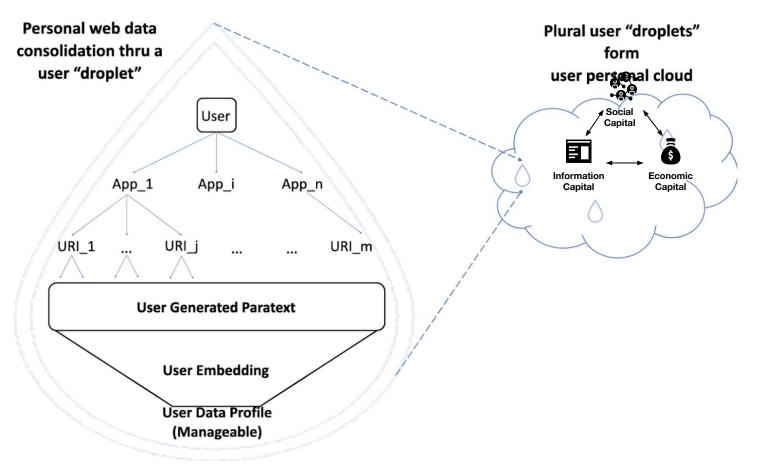


# Personal Data Profile Shared by Web Apps

User owned API, including social contacts, data profile, shared in a privacy preserving way.

#### **User Personal Cloud**

Browser is more powerful and justified than google/facebook on saving user data.



# User Manageable Data Profile We help users generate manageable data profiles that platforms can request right of read/write access.

	18-24 years old	9	Male
*	Adventure Games		Athletic Apparel
	Athletic Shoes		Bars, Clubs & Nightlife
×	Basketball	ł	Beaches & Islands
11-11	Beauty & Fitness	1	Blues
	Books & Literature		Business News
	Business Services	a))	Cable & Satellite Providers
	Camera & Photo Equipment	K	Cartoons

Example Above: Google's User Profile.

# Product &03Market

## **Potential Use Case**

Social Distribution of Premium Content.

۲	urMasterClass.net · Tom is watching otional Groovy Licks	
	Emotional Groovy Licks         Limited Free Access · Tom's Friend	
	ube · John is watching sence Makes the Heart Grow Fonder	
知	com · Han is watching 乎 <b>Live</b> ·去中心化互联网的理论与实践	

Example: Tom is a Master Class premium user. If Tom really enjoy a video on Master Class, he can click our "Wow" button, and all of his non-premium friends can see that piece on Master Class for free. Master Class will potentially gain more subscribers thereof.

Similar Projects Web+WASM is our key differentiator.

> Popular OS and Browsers: Android, iOS, Safari, Brave, etc.



**Brave Browser** 

Privacy-preserving Browser for Web 2.0. Blockchain based Decentralized App ecosystem



Blockstack

DApp Browser well-known in the crypto sphere. Super apps, traditional social media platforms with multiple features.



WeChat

Super app popular in China.

## Roadmap

We have clearly planned out our objectives in the coming year.

#### September 2020

Alora: Personal data privacy extension. Already published the first version--<u>access here</u>.

#### November 2020

Portal 1.0 Publish the first version of Portal with data management features.

#### January 2021

Portal 2.0

Publish the Portal 2.0 with social features--Content-based chat, Social News Feed--Imagine a browser with facebook functions on every webpage--but as an infrastructure.

#### May 2021

Social Web Browser 1.0 Publish our social web browser with Portal and Alora integration.

# Let's redistribute power to individuals!

- Tim Berners-Lee, inventor of WWW

# Conclusion

Four leverages of Privoce

#### New Technologies

WebAssembly + Cloud Computing.

#### Hardware Neutral Cross-Device web app ecosystem.

#### Resilient Architecture

Distribution app through URL rather than app store.

#### Data Ownership

Interoperable user controlled profile including social connection and data profile.

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