Cell Phone-A Thief In Your Pocket

Group Member: Jiajun Guo, Sihan Xu, Stephanus Huang

A BRIEF HISTORY OF DATA COLLECTION

— — —

Phase 1 (3000 B.C. – present) – collecting data on paper

Phase 2 (1989 – present) – replacing paper with computer

Phase 3 (~2010 – present) – computer and mobile devices

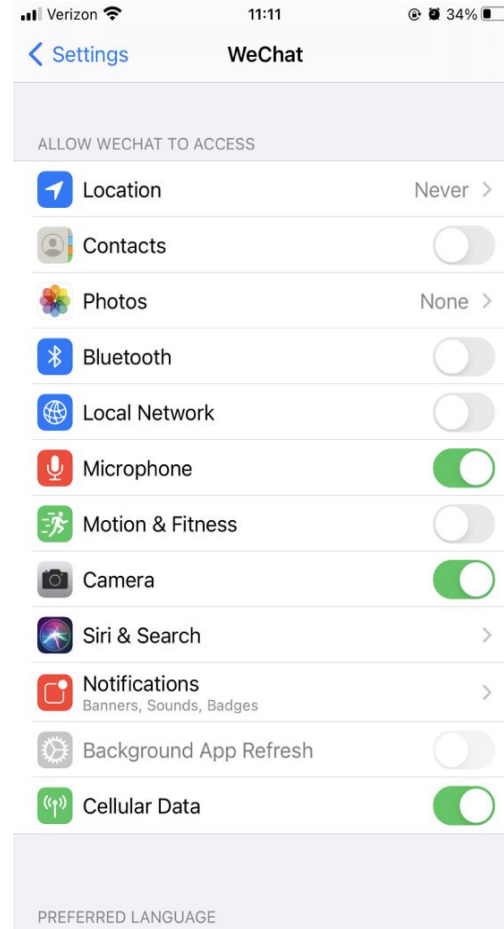# Mobile Applications

— — —

Your location

Contacts

Photos or video

Text messages and e-mails

Passwords

Financial data

Microphone

Call information

Consequences of this information

Scam

Contracts

Call information

Text messages and e-mails

Any photos or video you take on your phone

Accurate Advertising

— — —

Search History

Financial data

Location

Personal informations

Microphone
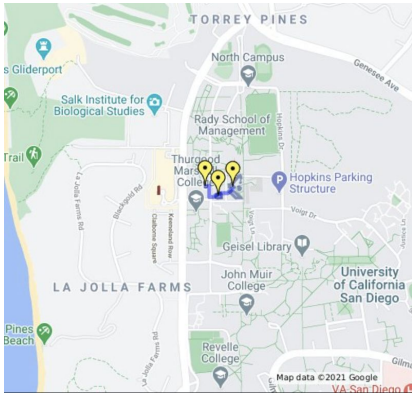
Monitoring

— — —

Microphone

Camera

A Porn Star

_ _ _

Any photos or video you take on your phone

Details about the text messages and e-mails you send and receive

Preventions as a User
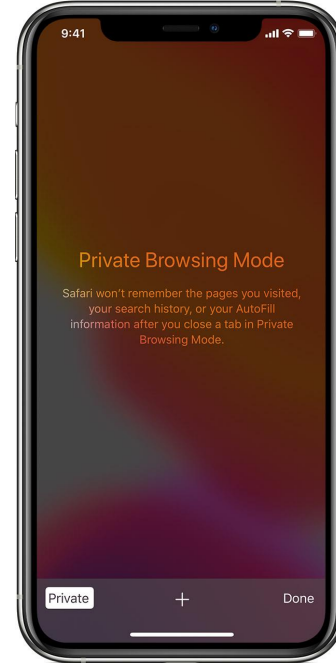
Turn Off Location access

This will disable all hidden map trackers

Use Private browser

This helps to block advertising, analytics and social trackers.

Limit advertising Tracking

This limits a company ability to track our personal internet searches.

Becareful on Wi-Fi networks

Open for hackers to gain access to our personal information.

Prevention as a Programmer

Data Collect

— — —

- As less as we can
- Notification when we collect the data.

Connections with ACM Code of Ethics
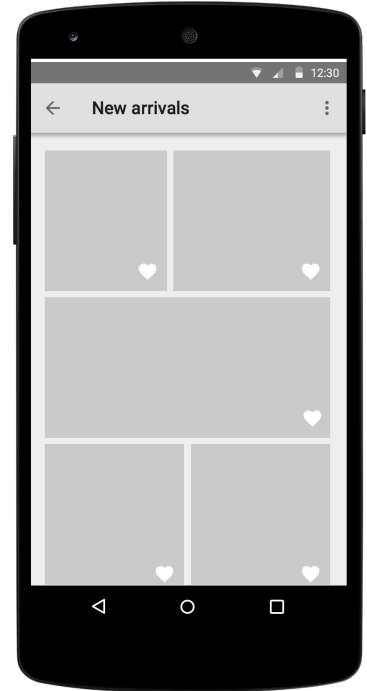
General Ethical Principles

— — —

1.6 Respect Privacy

-> Do not used information gathered without consent.

1.7 Honor Confidentiality

-> Should protect confidentiality of client
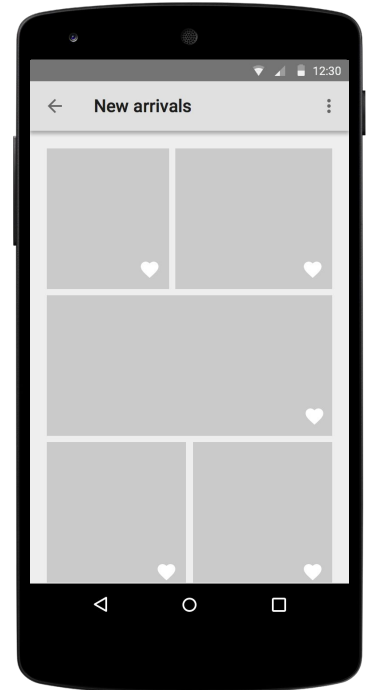
Professional Responsibilities

— — —

2.2 Give comprehensive and thorough evaluations of computer systems and their impacts, including analysis of possible risks

    -> Identify potential risks in the system

2.9 Design and implement systems that are robustly and usable secure

    -> System should function as intended
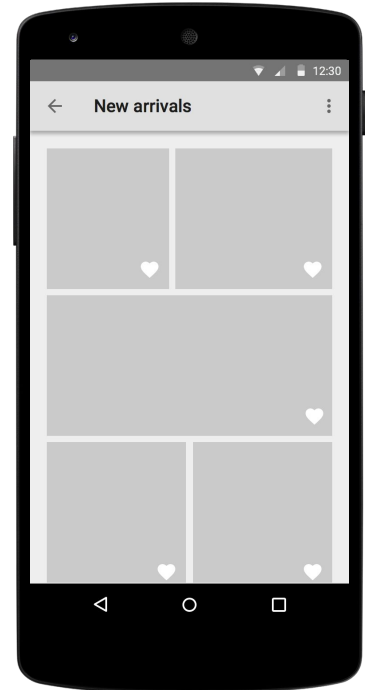
    -> Prevent data breaches

Professional Leadership Principles

— — —

3.1 Ensure that the public good is the central concern during all professional computing work

   -> System created has to focus on public good.

References

———

[1] C. Kent, "The Conversation," 2018, https://theconversation.com/smartphone-data-tracking-is-more-than-creepy-heres-why-you-should-be-worried-91110.

[2] K. Komando, "USA Today," 2019, https://www.usatoday.com/story/tech/columnist/komando/2019/02/14/your-smartphone-tracking-you-how-stop-sharing-data-ads/2839642002/

[3] "Association for Computing Machinery," 2018, https://www.acm.org/code-of-ethics

[4] "MOBILE DATA COLLECTION - How Big Data Is Collected," 2018, https://www.magpi.com/what-is-mobile-data-collection

Thank you!