CNLab Final Project Proposal WeShare

*An application that makes texts, URLs and even files
to be shared in a much more convenient way.*

Group 4

B06902001 陳義榮	B06902017 趙允祥
B06902024 黃秉迦	B06902029 裴梧鈞
B06902057 薛佳哲	B06902106 宋岩叡

WeShare

Have you ever……

Scenario 1: Taking Course

Teacher's / TA's view

During the class, the teachers and the TAs need to publish their course materials of different types to the students.

For example,
- Course slides (.pptx, .pdf files)
- Reference links (URLs)
- Demo videos (possibly URLs)
- Some hints / testdata (text)

Student's view

- It's hard to correctly surf to the course website at the first time. For example, Googling "林風" or "計算機網路實驗" will not give us the correct website.
- Typing a long URL is disturbing. For example, "http://www.pcs.csie.ntu.edu.tw/course/cnl/2020/" has 48 characters, even shortened URL has 24 characters.

Scenario 2: Attending Talks / Conferences

Speaker's view

The speakers would like to share their works, demo, slido links, or even Kahoo links.

Attendee's view

- Compared to Scenario 1, the attendees are even more likely to be ignorant of the speakers (their names, websites, ……)
- The attendees may lose important information.

Existing Solutions

AirDrop / Bluetooth

Pros

- It's pretty convenient to transfer images, audio, files with AirDrop and/or bluetooth.

AirDrop出去了喔

Cons

- Unicast.
- The source is unreliable. Malicious users may send fake information to another users.
- Disturbing bluetooth settings for users using different platforms.

QR Code

Pros

- Quick access with smart phones.

Cons

- Unavailable for laptop / PC users.
- Unavailable if the attendee is far from the screen.
- If there are multiple links to share, we need to take multiple pictures.
- Hard to update.

And many other

- Show URLs on slide
- Facebook Groups / Twitter
- Messenger / Line
- Emails
- ……

Our Proposals

Assumption & Evaluation

Assumptions

- To be used in a one-speaker-multiple-attendees in a physical talk/class.
- Attendees may have few, or even zero relationship with other attendees and the speaker.
- Attendees are using laptops / PCs that are accessible to the internet, but the network setting may be complicated.

Evaluation Metric

- **Availability**
  How many portion of people will retrieve the information?
- **Convenience**
  How many clicks / key pressed would take to retrieve the information?

Specs

Purpose

- The event host can share textual data / images / files to the attendees.

Platforms we use

- Chrome Extensions

System Architecture

- Server - client architecture

System Design

- An event host can create a event and get
  - administration token
    12-characters, to be used to manage the list
  - event code
    4-character
- Attendees can obtain the list by typing a event code on the chrome extension.
- Each list will live for 24 hours.

Q & A