

Discussion after Proposal (added 5/11 3:26pm)

- Novelty:
 - Opportunities for small vendors (美芳)
 - Users can achieve extra time by connecting to the same Internet multiple times (i.e. watching ads multiple times) (美芳)
 - Carrying over the leftover time the user earned to the next time they connect (雨樓)
 - Store user information
 - Share files among people on the same wifi (美芳)
 - Discount shopping in that area for connecting to the wifi by issuing a coupon (美芳)
 - Set ads policy stricter, so users have to watch full ads before they connect (傑森)
 - Show receipt to skip ads (傑森)
 - Utilize 統編
 - Perform survey instead of ads, and give user free wifi(淳竣)
 - For quality, we need to write a program to check if customer fill in the survey seriously
 - Put some tricky questions

CNL Final Project

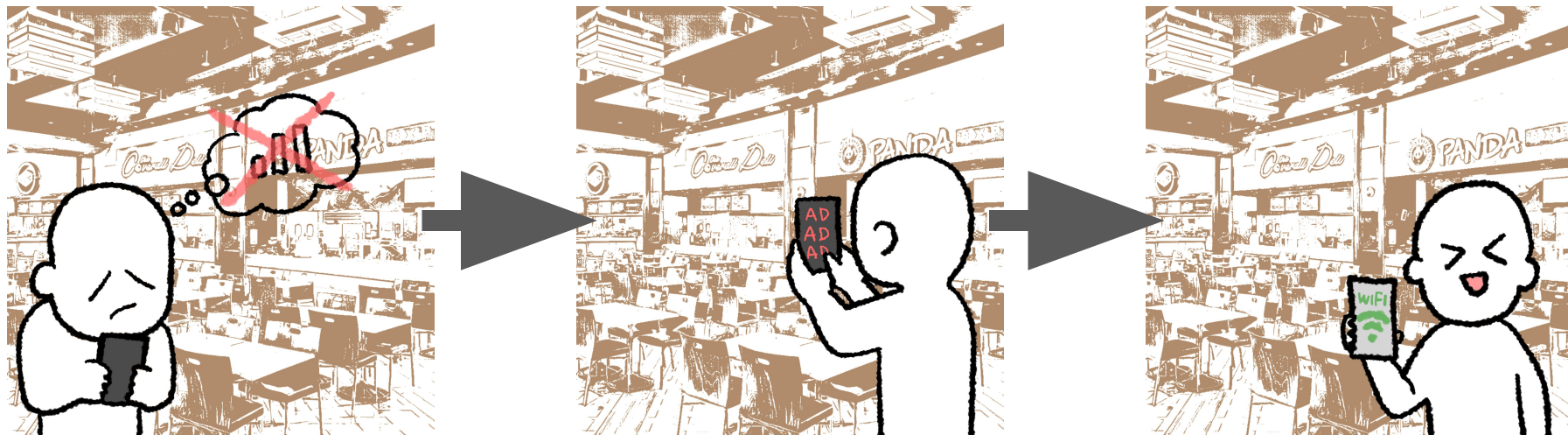
Group 13

B07902101 楊傑森
B07902065 楊雨樓
B08902094 高橋茉莉香
B08902137 楊淳竣
B08902084 魏美芳
B06902084 方家豪

Motivation

- People want to use WIFI when they are outside
 - Some countries have very expensive mobile data plans and people don't want to waste money on using the Internet
 - The Internet is essential for most people nowadays
 - Social media, map, doing assignments, etc.
- If companies/stores can provide the Internet while making profits and customers can access to the WIFI, it's a Win-Win.
 - A store will receive monetary reward from advertisers as the customers watch advertisements
 - Customers who want to use the Internet have to watch ads before they use
 - The session will expire in certain amount of time
 - If the customer watch ads again then they can reconnect to the Internet

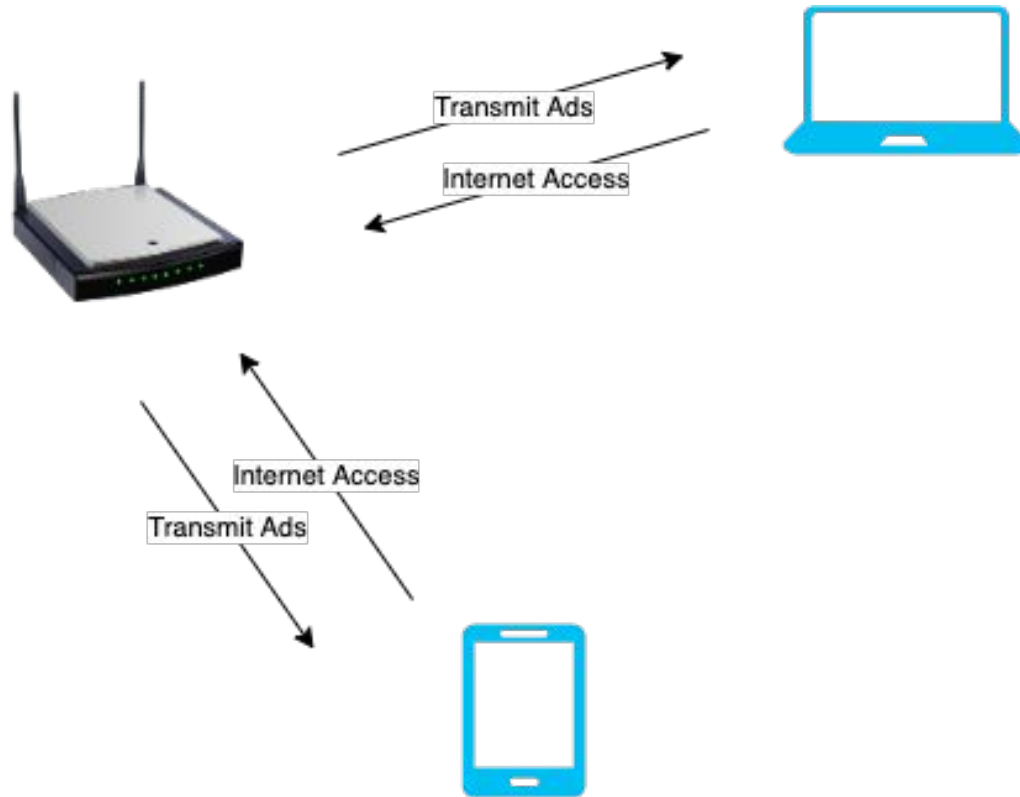
Scenario



Related Area

- Mobile IP
 - Iptable (lab1)
 - Flow control (lab2)
- Network Security
 - Iptable
- Network Multimedia
 - Transmitting ads to devices

Framework



Environment

- 1 Access Point (Router provided, DD-WRT)
- 1 laptop computer
- 1 mobile device
- C++/Python
- HTML, CSS, JavaScript, PHP, SQL

TO DO:

- Design Graphical User Interface
 - Connecting to AP
- Implementation
 - Flow Control
 - iptable settings
 - Get users' IDs (IP addresses)
 - Ads Transmission
 - Multi-User Connection
- Perform User Evaluation
 - Usability
 - GUI
 - Bugs

Reference

<https://zapier.com/blog/open-wifi-login-page/>

<https://www.cable.co.uk/mobiles/worldwide-data-pricing/#:~:text=The%20five%20most%20expensive%20countries,are%20both%20striking%20and%20obvious.>

Thank you for listening!