A.1. Make your own unique WiFi AP with special functions

What you have to do in this term project is to make your own **unique WiFi AP** with **special functions** (e.g. Content Centric Networking (CCN), Software-Defined Networking (SDN), load balancing, proxy, caching). You can make your own WiFi AP using a single board computer (e.g. Raspberry Pi) with any software (e.g. hostapd, OpenWrt).

Requirements

- ➢ Implement your WiFi AP using Single board computer.

- ➢ Create your own special functions that works on your WiFi AP.

- ➢ You should clearly show what your function is and how it works

Submission

You have to submit a zip file with a **pdf report, ppt** and **demo video**.

A.2. Share your data with a friend directly

What you have to do in this term project is to make your own system that can **share data with other system directly**. If a device around you has the data you want, you can receive the data directly from the device without going through the network. You can make D2D system based on Content Centric Networking (CCN) using open sources and single board computer (e.g. Raspberry pi).

Requirements

➢ You should be able to send data directly to the device around you.

➢ Also, you should be able to receive data directly from the device around you.

➢ You should clearly show that the data is delivered directly without going through the network.

Submission

You have to submit a zip file with a **pdf report, ppt** and **demo video**.