# Phase III : Final Project

## Due: Dec 7, 2020

For this Phase III of the final project, the IoT exists. So implement the sensors/actuators in the RPi board as separate Java Classes with their own MySQL databases. The RPi board and the laptop coexist in the same WiFi network provided by the router, and the RPi board communicates with the Laptop server using sockets. For this phase, all nodes in the IoT can be dynamically integrated and removed – so use NMap for auto-detection of IP address and roles of the IoT nodes.

**Deliverables:**

1. App on your mobile device
2. Htdocs php codes on your home server
3. Java codes for sensors/actuators running on the RPi board
4. All databases
5. Server-Client Socket Communication codes for the laptop and the RPi board (with NMap integration of a new device in the IoT)
6. Webcam integration with RPi board, feeding app through server, with record on server facility