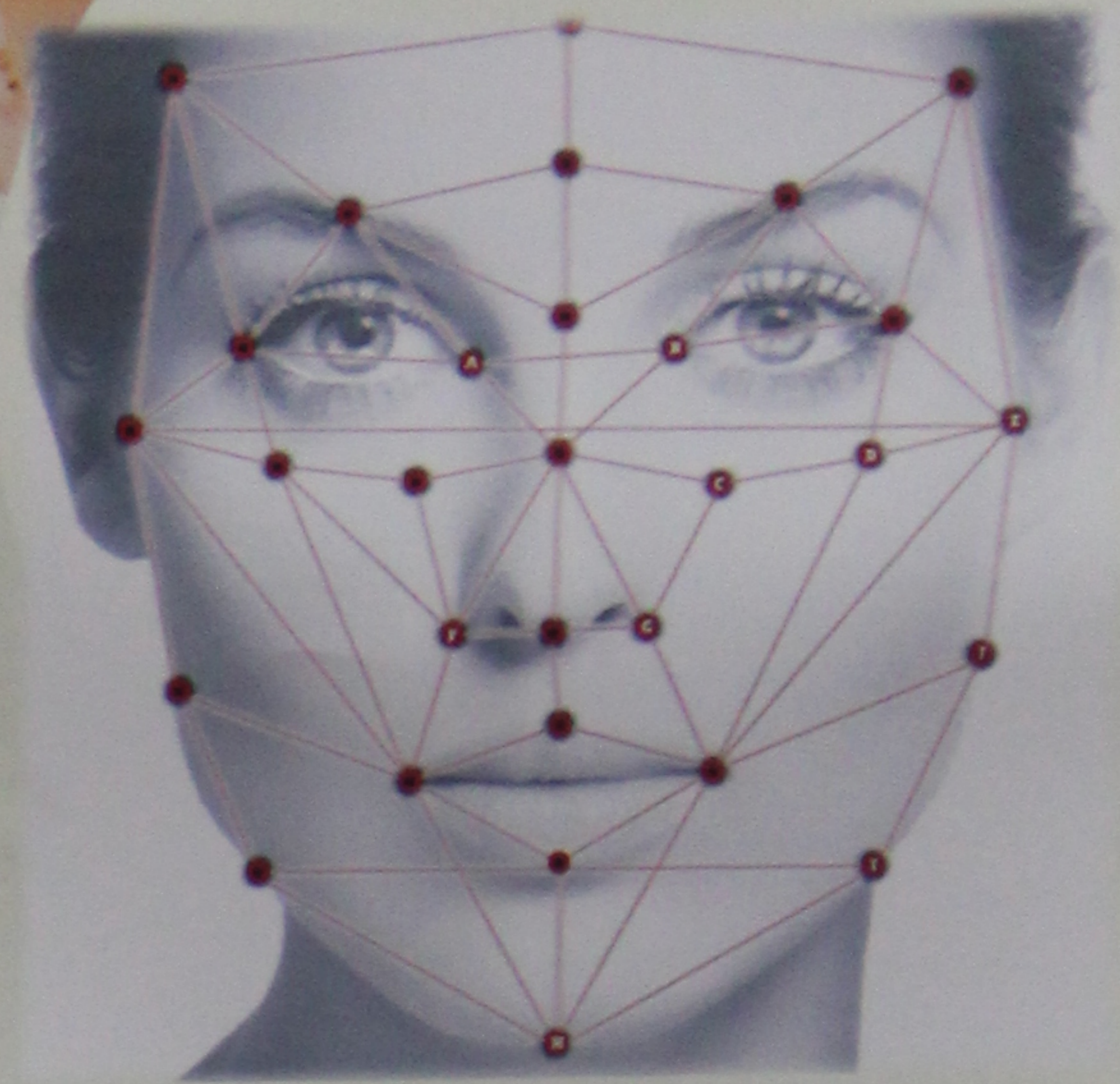


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# UniMAP IoT : ANDROID BASED FACIAL IMAGE RECOGNITION USING NEURAL NETWORKS FOR CLASS ATTENDANCE TRUANCY



## PRODUCT DESCRIPTION

Following any conventional Malaysia universities, lecturers take attendance by calling out the names of students, and then marking them, while, in others, lecturers pass around a sheet of paper, asking students to sign in attendance sheet. Both practices have their drawbacks. In the first case, if numerous groups attend the lesson, checking all of these students by name might take about several minutes out of each lesson; in the second case, friends of absent students may write down their names. These practices place university lecturers and their institutions at considerable disadvantages when it comes to taking attendance. To rectify these systematic failings, this project intend to use Android (an open source OS) coupled with neural network working algorithm for face recognition purposes via each lecturers smartphones.

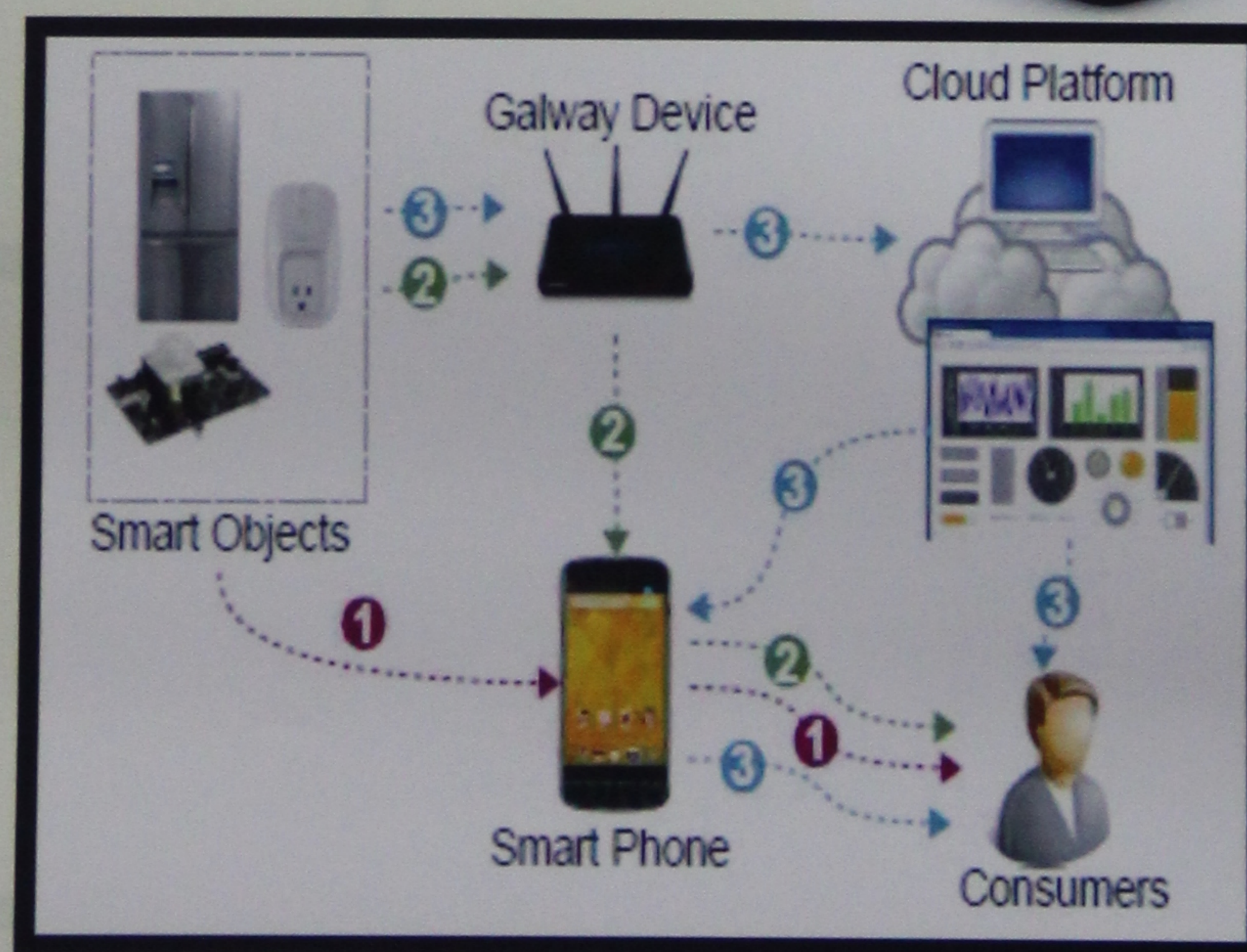
## PROBLEMS STATEMENT

One of the problems in university are fraud among students in class attendance. This research will come out with the best solution to overcome this phenomenon.

## PRODUCT ADVANTAGES

### Advantages of face recognition technology compared to fingerprint technology

Face recognition; its algorism is ten times more complex than a fingerprint algorism. Face recognition is featured by the following advantages compared to fingerprint:



## PROCESS FLOW

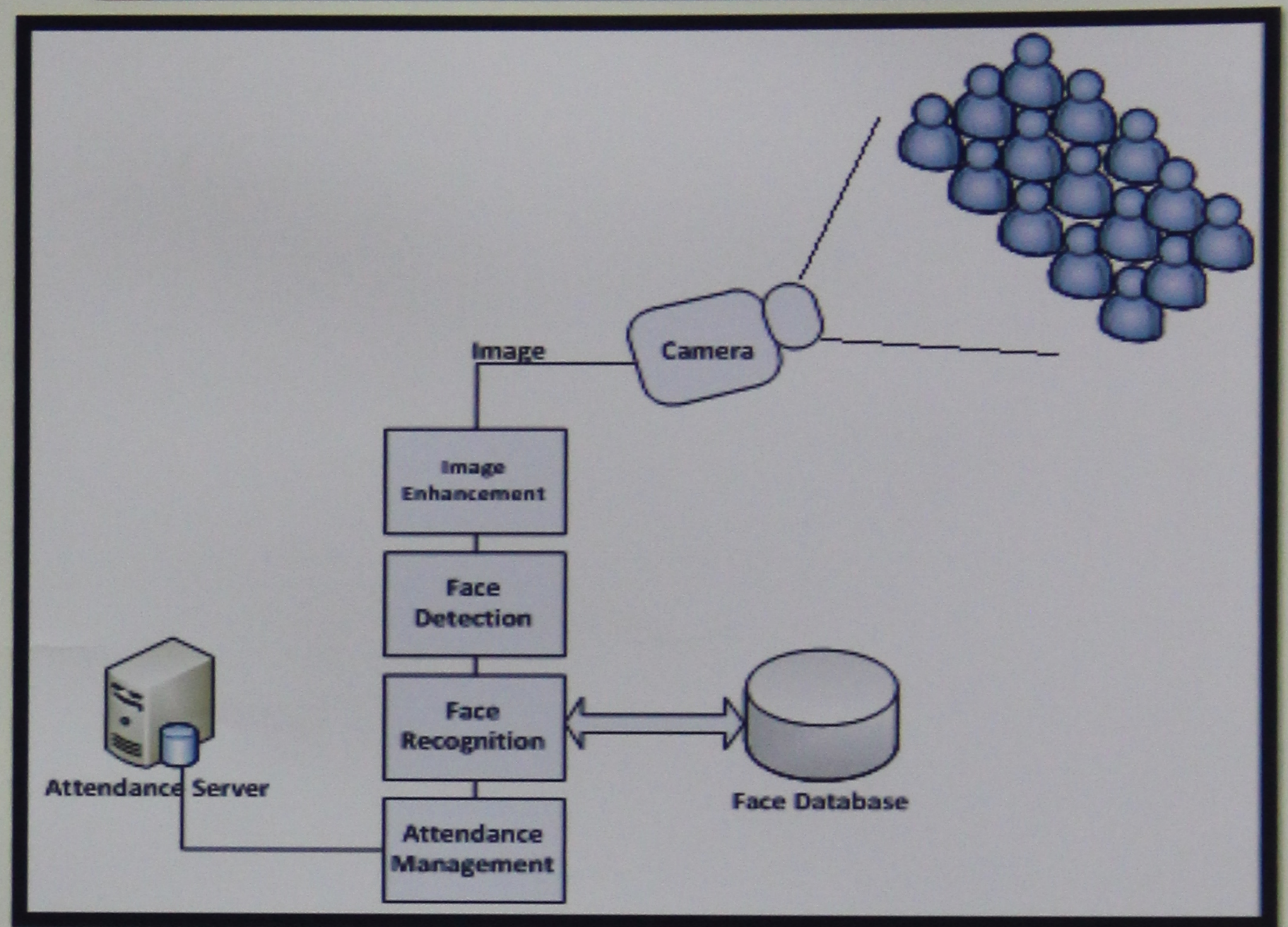


Figure 1: Basic architecture of multilayered Neural Networks

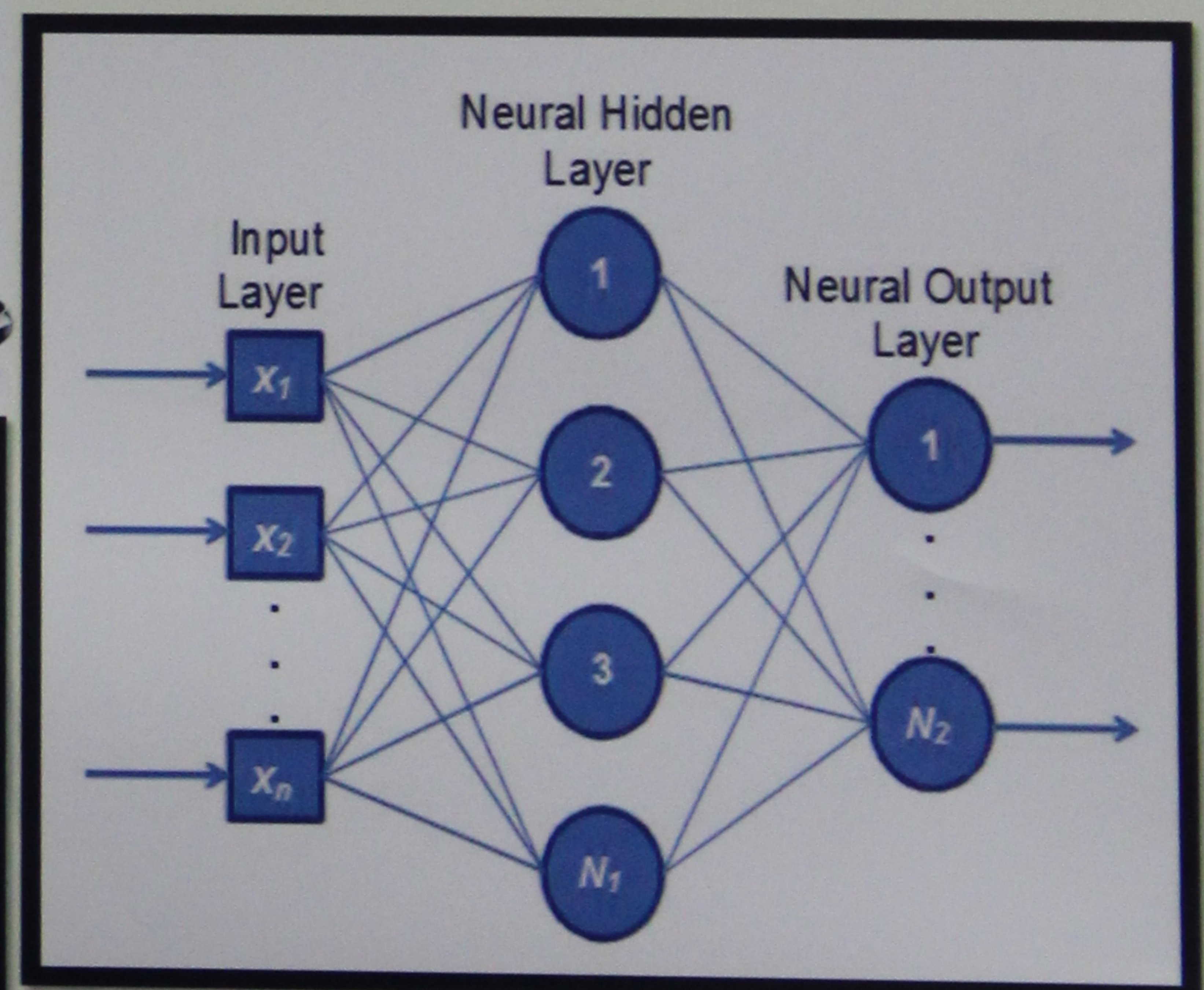


Figure 2 : Common communication patterns in IoT applications

## NOVELTIES

- ✓ The system of class attendant is orderly managed.
- ✓ Cultivate good student's attitude and tidy appearances

