# The Roll System Using Mobile Device Group 1



### Outline

# Scenario Problem Advantages & Disadvantages of current scenario Propose our solution Demostration Techology and development evironment Advantages Disadvantage & Future Plan

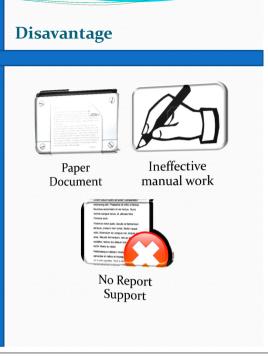
### Scenario Problem

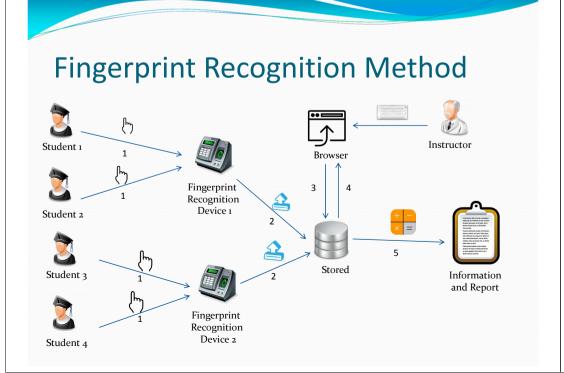
- The demand of attendance taking.
- Traditional attendance taking method has many disadvantages.

### **Traditional Method** Student 1 Roll Call Instructor 1 Book 1 Student 2 Information and Report Student 3 Instructor 2 Roll Call Book 2 Student 4



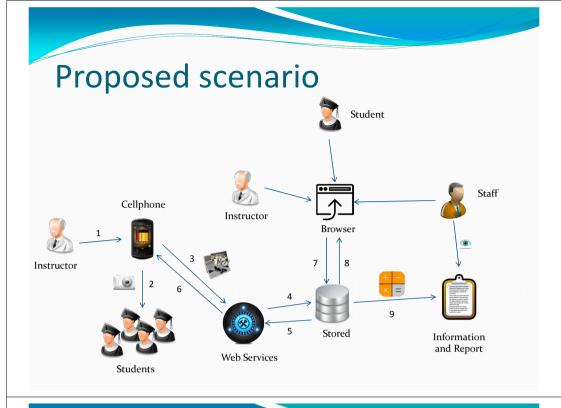
Easy to setup.





















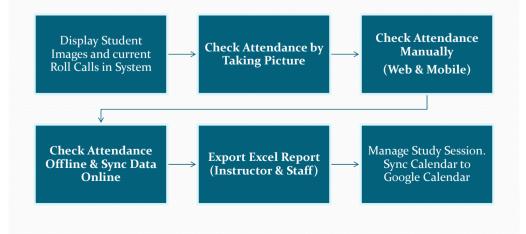


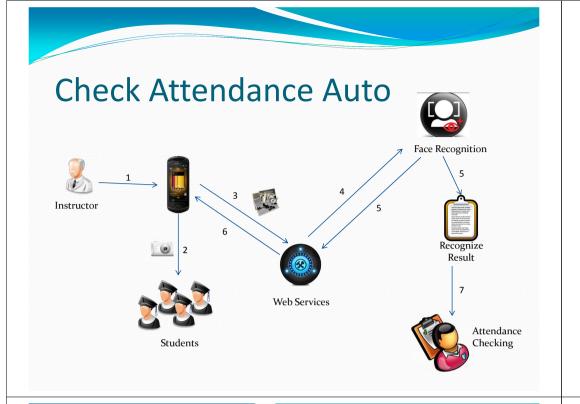


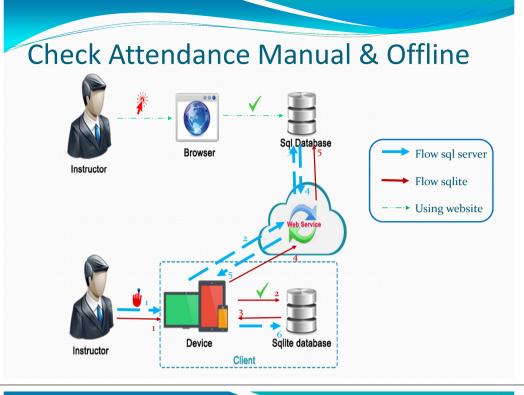
### Demo

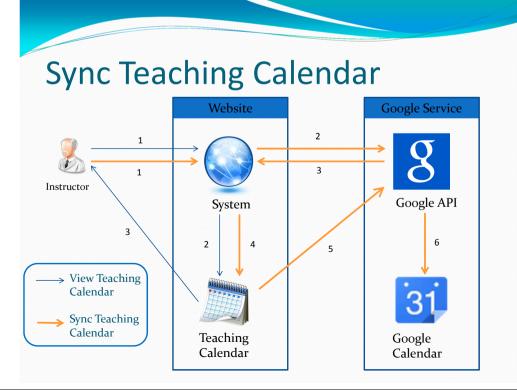


### Demo scenario









## **Advantages**

- Fast, convinient roll call system. The attendance checking only take 10-30s for each session.
- Small installation cost.
- Easy deployment (Just web server + mobile).
- Less hand work.
- Offline working and data synchronization, in case of network error.

# Disadvantage

- The accuracy is still not 100%. (Just 70-80% according to test report).
- Only work with small class room/examine room (From 20~30 students).
- Only export one kind of report.
- Mobile App only on 1 platform: Android



### **Future Plan**

- Find another face-recognition algorithm or optimize the current algorithm for higher accuracy.
- Export more kind of report: Absent rate of a subject, a student.
- Develop mobile app on another platform: iOS, Window Phone...





### THANK YOU

Q/A