

The Roll System Using Mobile Device

Group 1

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Team Member

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Outline

- Scenario Problem
- Advantages & Disadvantages of current scenario
- Propose our solution
- Demonstration
- Technology and development environment
- Advantages
- Disadvantage & Future Plan

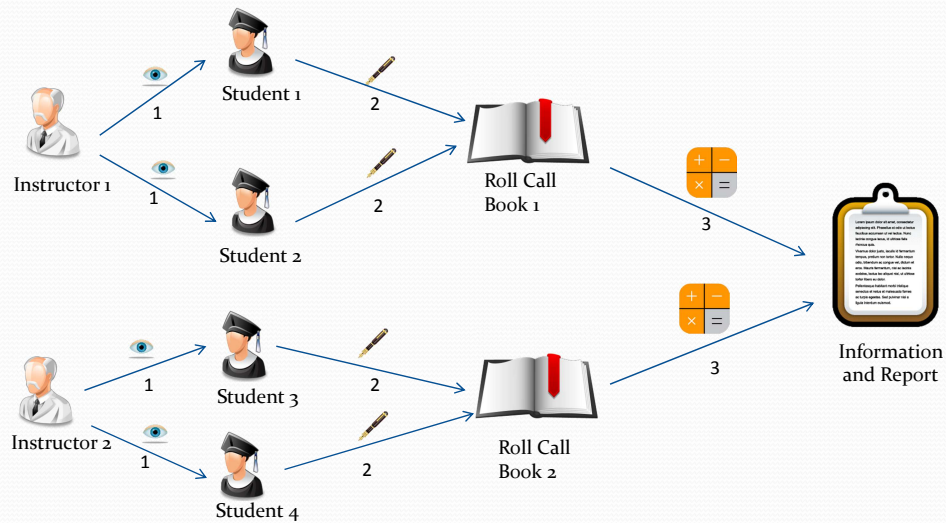
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Scenario Problem

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

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Traditional Method

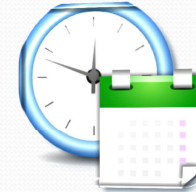


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Advantages



Low cost.
Easy to setup.



No Training
Time.

Disavantage



Paper
Document



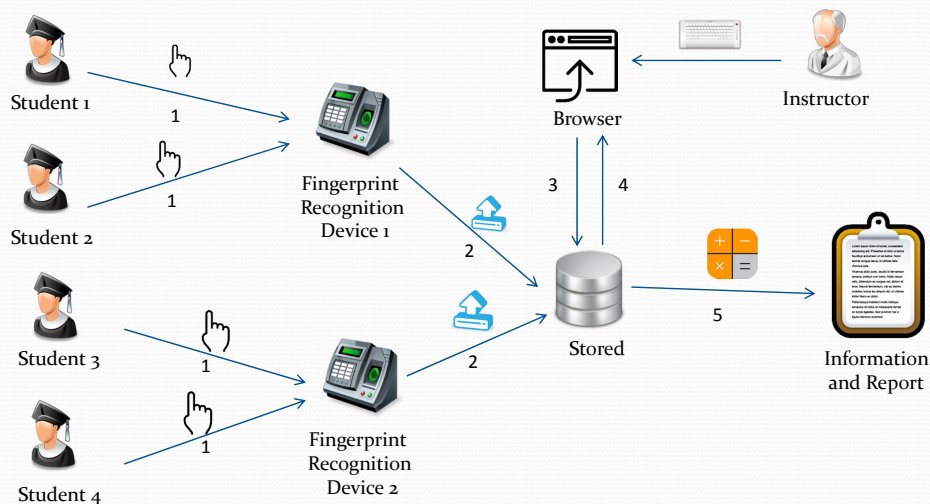
Ineffective
manual work



No Report
Support

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Fingerprint Recognition Method

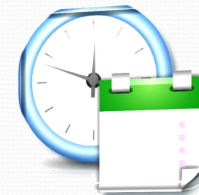


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Advantages



Less Manual
Work



Fast &
Convinient



Support
Statics & Report

Disavantage



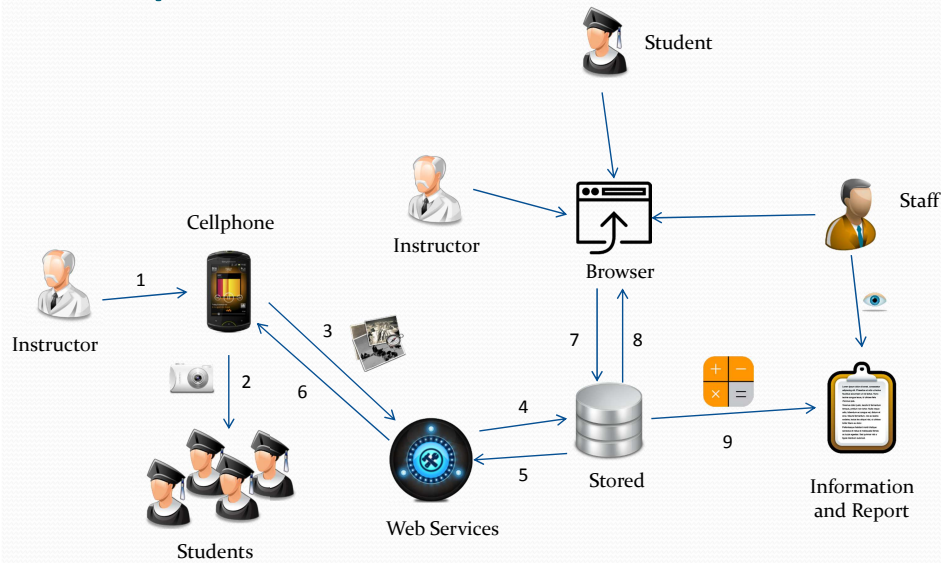
Hard to Setup



Not work when
network
unavailable

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Proposed scenario



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Features



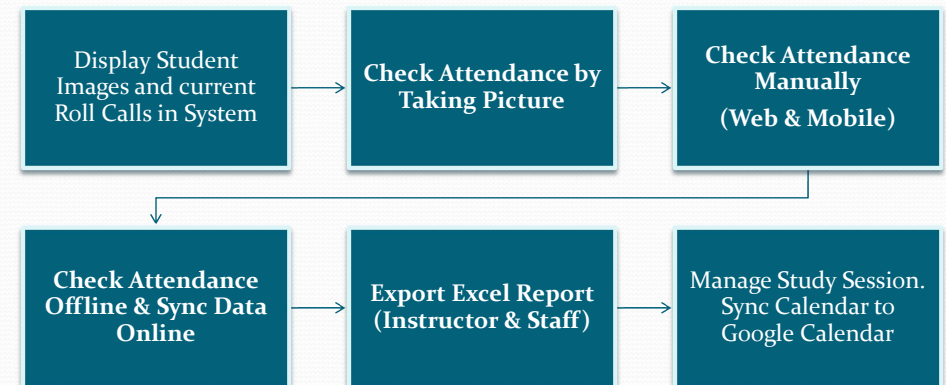
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Demo



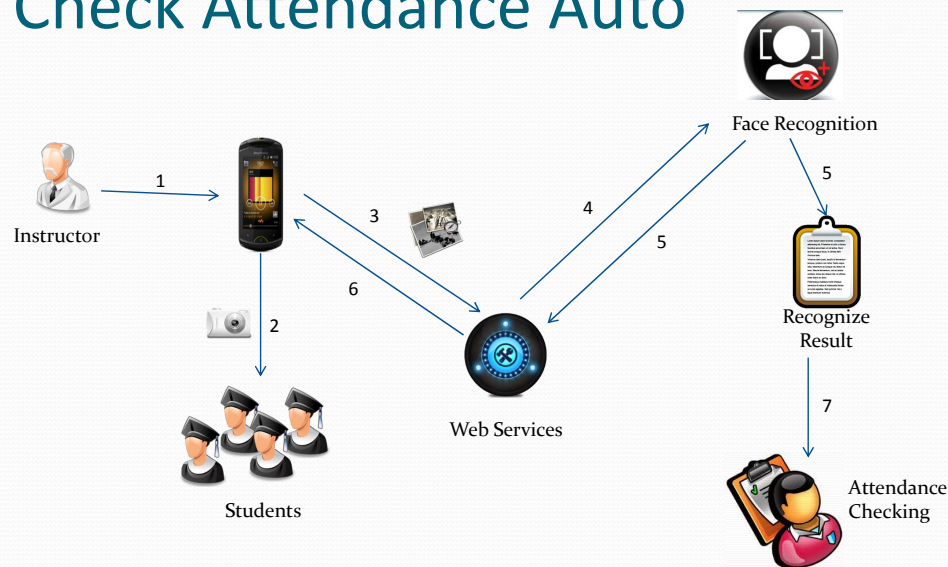
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Demo scenario



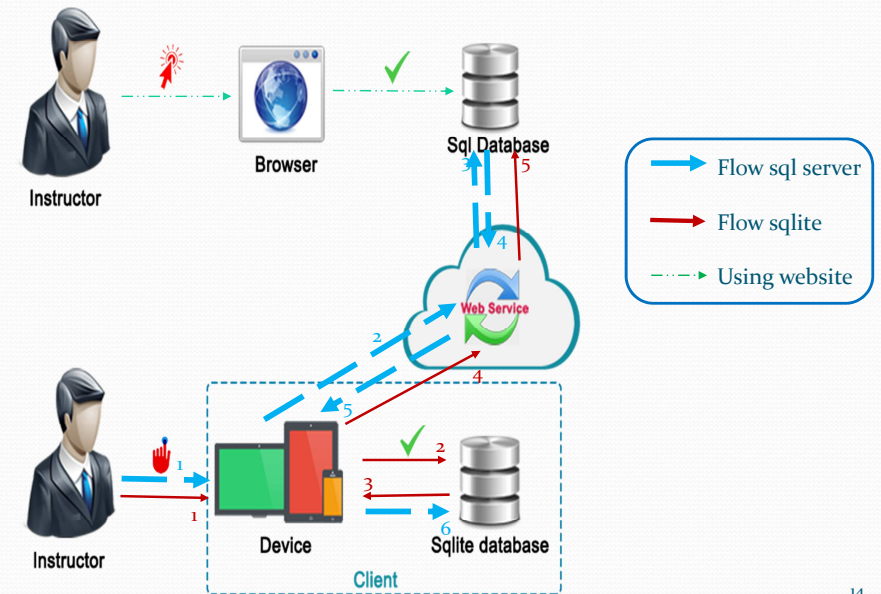
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Check Attendance Auto



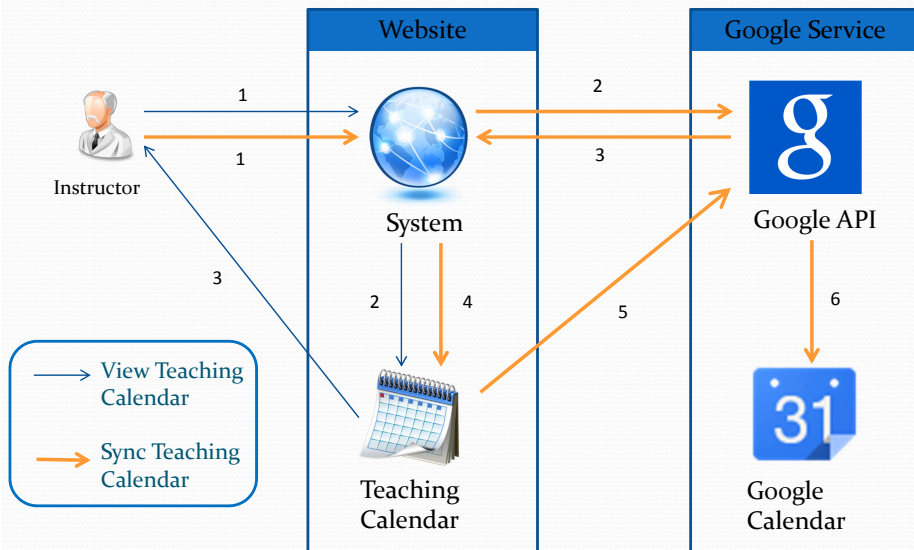
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Check Attendance Manual & Offline



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Sync Teaching Calendar



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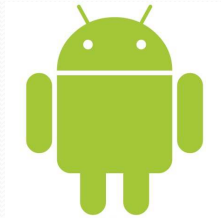
Advantages

- 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.

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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



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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...



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THANK YOU

Q/A

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