

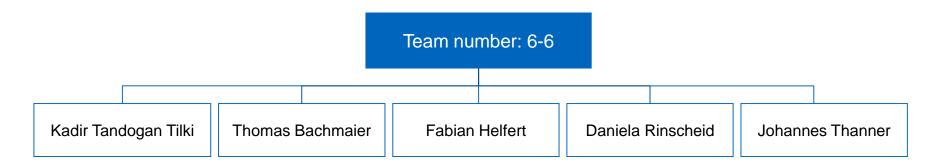
Final presentation of project work

24th of January 2018





#### Our Team





#### Project Demo Videos

Whole Project: <a href="https://www.dropbox.com/s/jl2ouxzb63lhjzm/proj\_demo.mp4?dl=0">https://www.dropbox.com/s/jl2ouxzb63lhjzm/proj\_demo.mp4?dl=0</a>

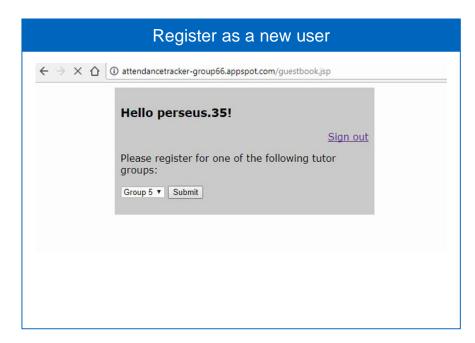
Android: <a href="https://www.dropbox.com/s/yvz4hxicxolh8hz/android\_demo.mp4?dl=0">https://www.dropbox.com/s/yvz4hxicxolh8hz/android\_demo.mp4?dl=0</a>

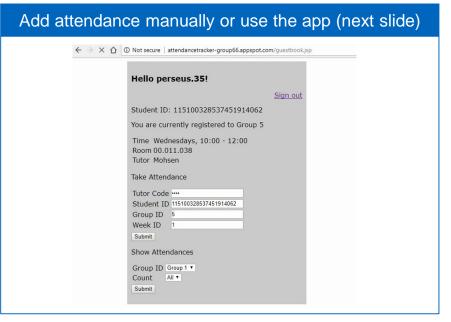
Web: https://www.dropbox.com/s/no3nzhvpsuml91b/web\_demo.avi?dl=0

Step by step explanation via screenshots on the next slides.



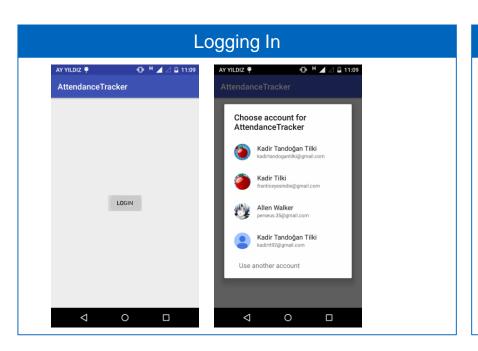
#### Demo







#### Demo (continued)







#### Demo (continued)

# Starting PI with Tutor Code (0000)



#### Attendance is successfully taken C ↑ (i) attendancetracker-group66.appspot.com/attendar Attendances of Group 5 attendance id: 6256367190933504 student\_id: 115100328537451914062 tutorial group id: 5 week id: 3 presented: true tutorial\_info: Time: Wednesdays, 10:00 - 12:00 | Room: 00.011.0 attendance\_id: 6296885912403968 student\_id: 115100328537451914062 tutorial group id: 5 week id: 2 presented: true tutorial\_info: Time: Wednesdays, 10:00 - 12:00 | Room: 00.011.0 attendance id: 5201690726760448 student\_id: 115100328537451914062 tutorial group id: 5 week id: 1 presented: true tutorial\_info: Time: Wednesdays, 10:00 - 12:00 | Room: 00.011.0



# Completed and Due Features

Week	Task	Status
1	Set up GitHub	Done
2	Web app User login Check if registered Register for tutor group Show group information	Done
3	REST Attendance entry and attendance log Check for correct group Display all attendances per group	Done
4	QR Code on Raspberry Pi Transform attendance string to QR code Read and parse QR code per webcam Display decoded string	Done



# Completed and Due Features

Week	Task	Status
5	Communication between Pi and BE Convert attendance record to XML Submit XML via POST request Server should parse and store request in database Show confirmation if success	Done
6	Attendance tokens Extend QR creation upon registration Implement GET request to deliver token per student and week Check for correct token before stored in database otherwise failure message Android app Login functionality Retrieve weekly token and display as QR Display attendance history (optional)	Done
7	Authentication Authenticate tutors and students Handheld checks for credentials	Done

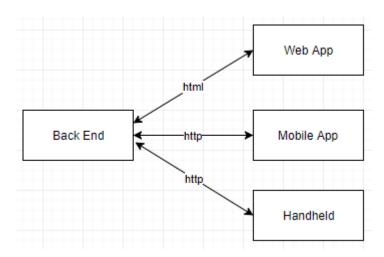


# Completed and Due Features

Week	Task	Status
8	No project recommendations given	Done
9	Hashchain based Notary Recording attendance Verfying attendance	Not necessary
10	No project recommendations given	Done

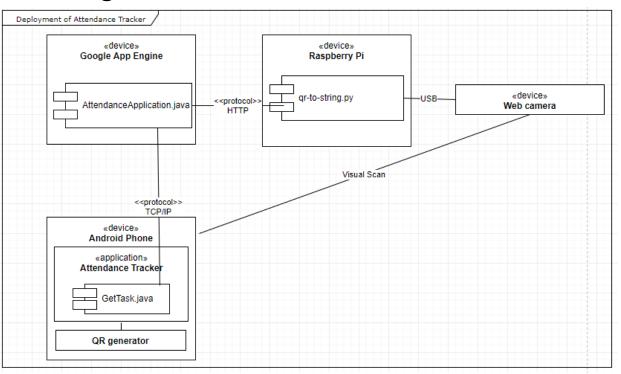


# High Level Architecture



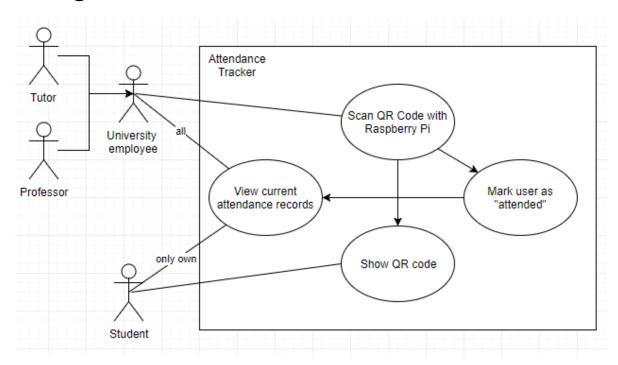


# **Deployment Diagram**





#### Use Case Diagram





#### Lessons Learned & Tradeoff

#### **Lesson Learned**

Better distribution of tasks

Use of github features for shared collaboration



#### **Future Works**

We completed all basic features and some optimization on the code was conducted.

The attendance system is ready to use for next years classes...