

Mobile Attendance Application

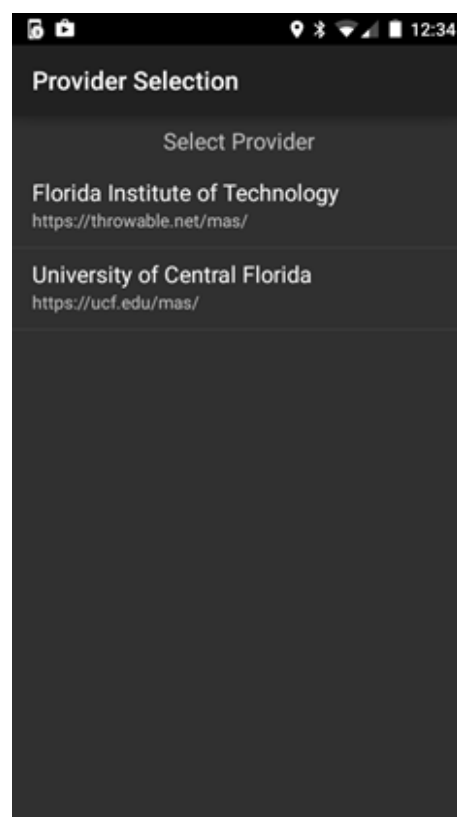
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Goals

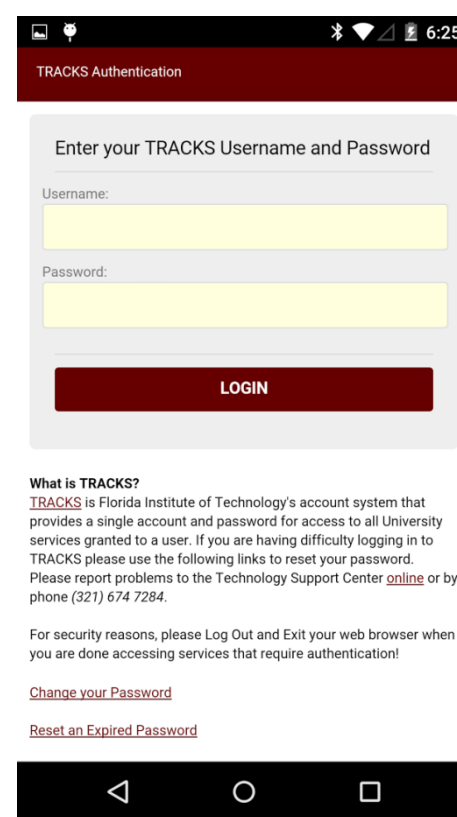
- Improve the process of taking attendance
- Give instructors easy access to attendance data
- Develop a simple interface for both students and instructors

Approach

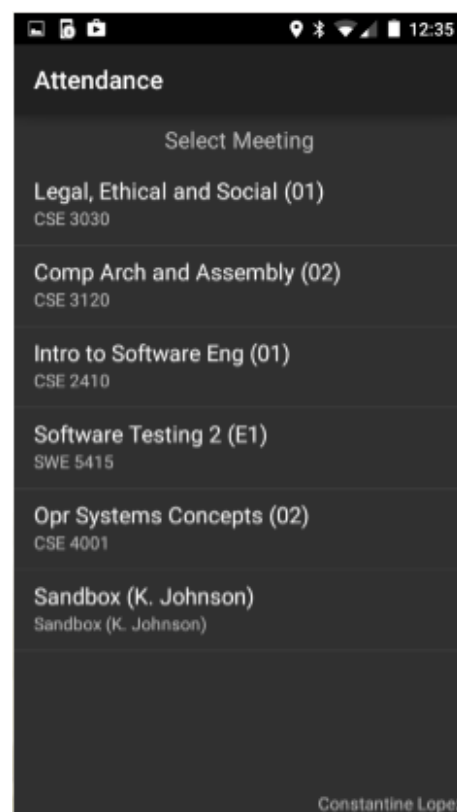
- Enable communication between client and host devices
- Design a communication framework for attendance data
- Implement a website allowing instructors to view attendance records



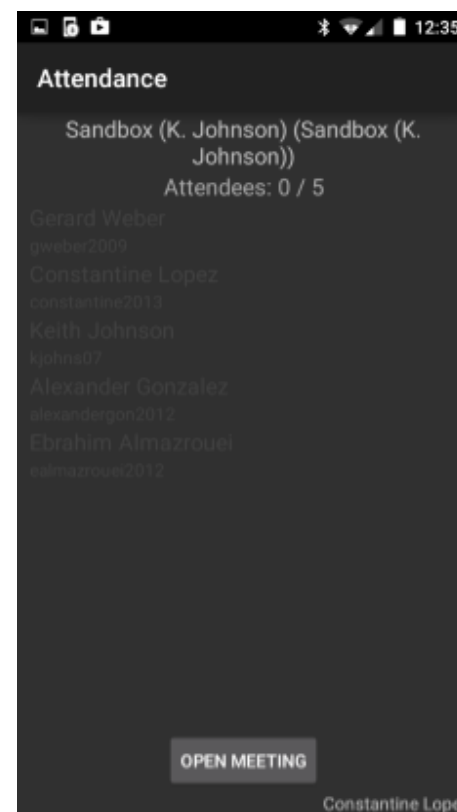
Provider Screen



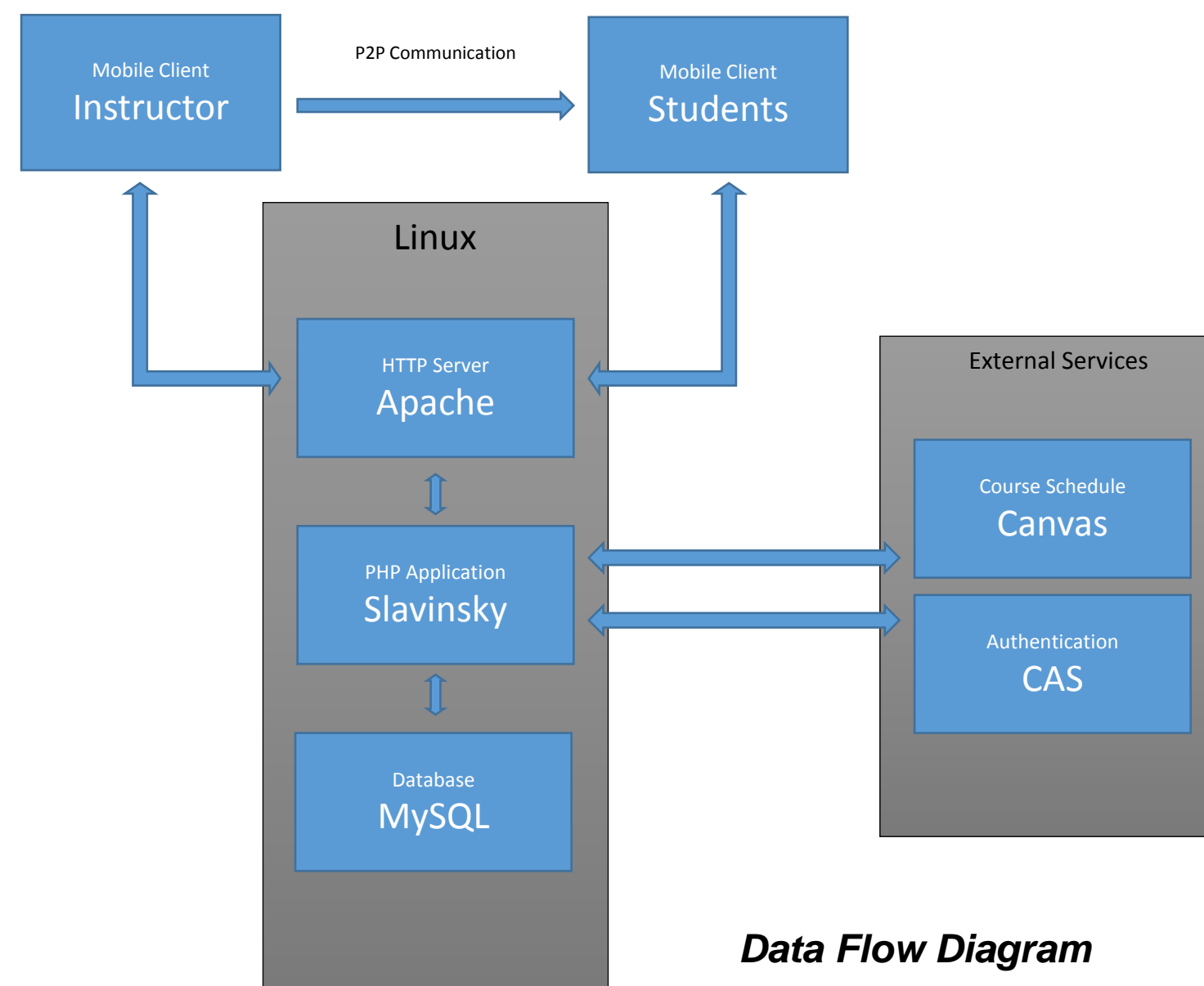
Login Screen



Course Display



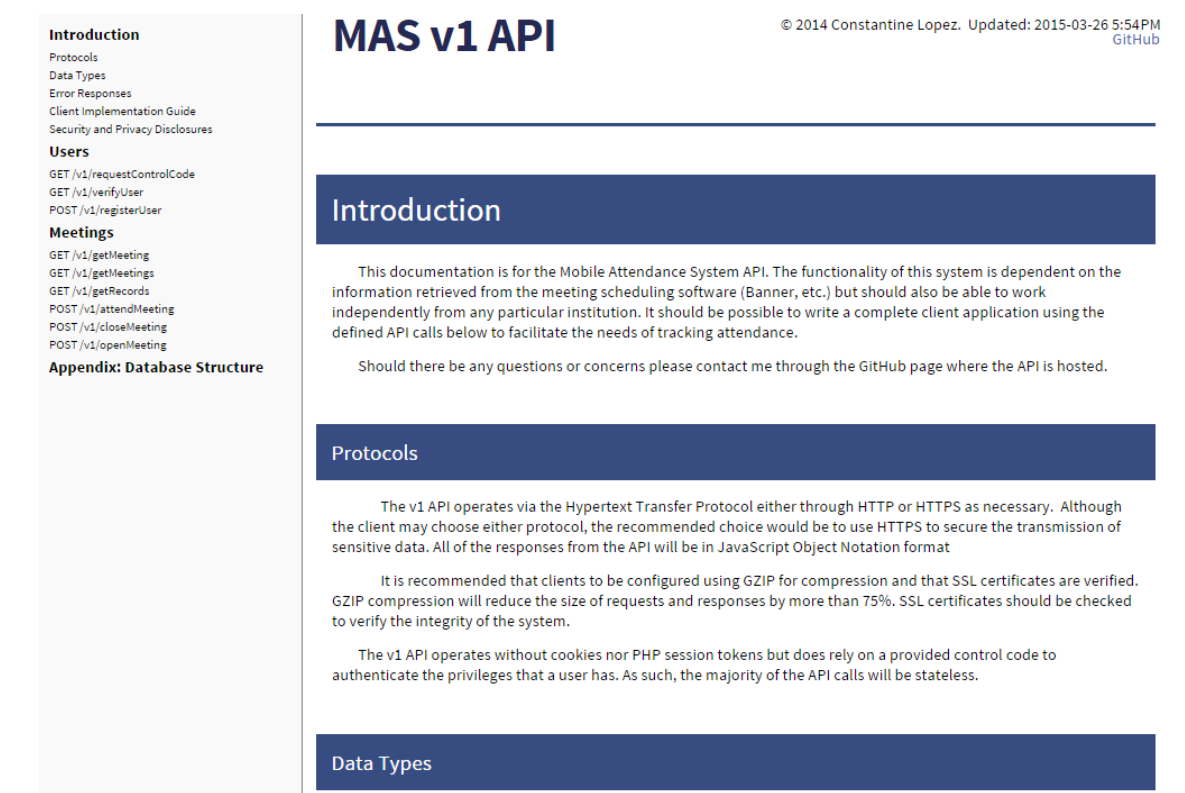
Roster Display



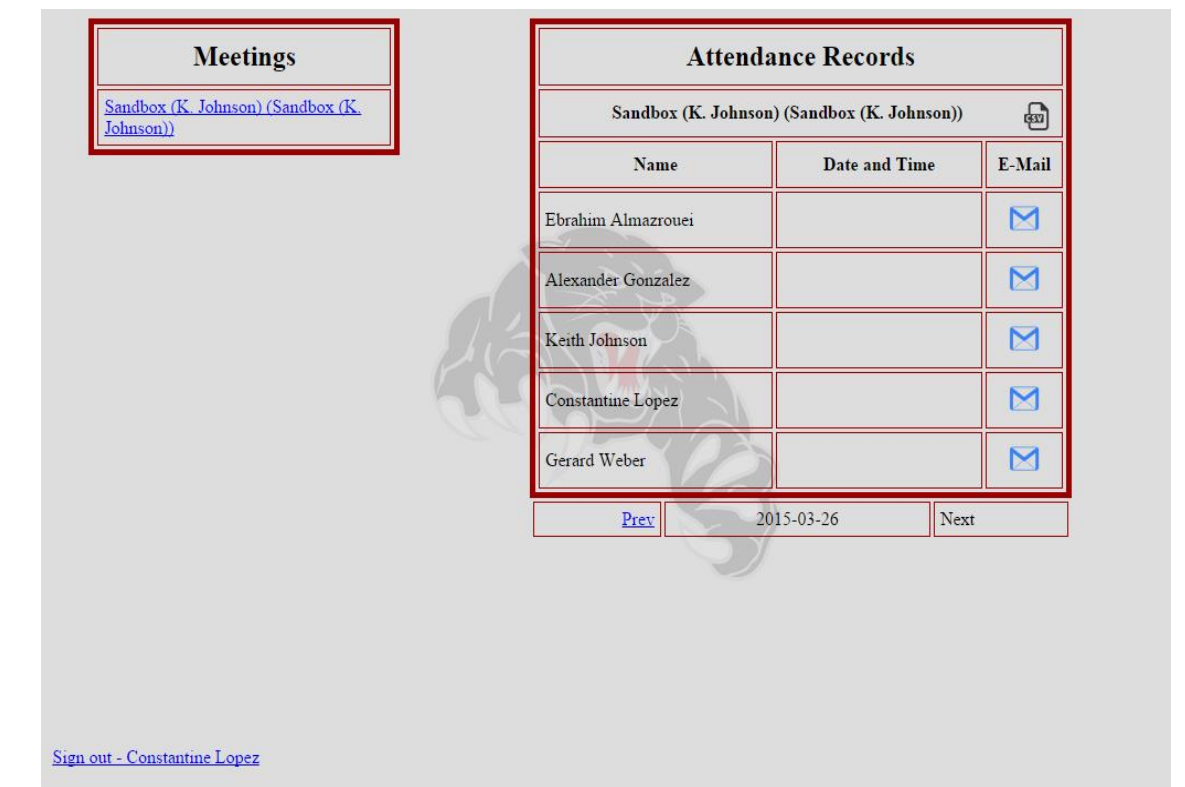
Data Flow Diagram

Functionality

- Users authenticate themselves by logging into Canvas
- Instructors pick from a list for courses they are teaching and broadcast the course for attendance
- Students pick their course from the list of broadcasted courses and attend
- Students must be within the same classroom as their instructor in order to mark themselves as present
- Instructors can log into the website to view attendance records



API Documentation



Attendance Website



Xamarin



Bluetooth®



canvas
BY INSTRUTURE

NORTHROP GRUMMAN



Engineering & Science
Student Design Showcase
at Florida Institute of Technology

