Making the Mentoring Center Great Again
(Backend for the MMCGA Project)

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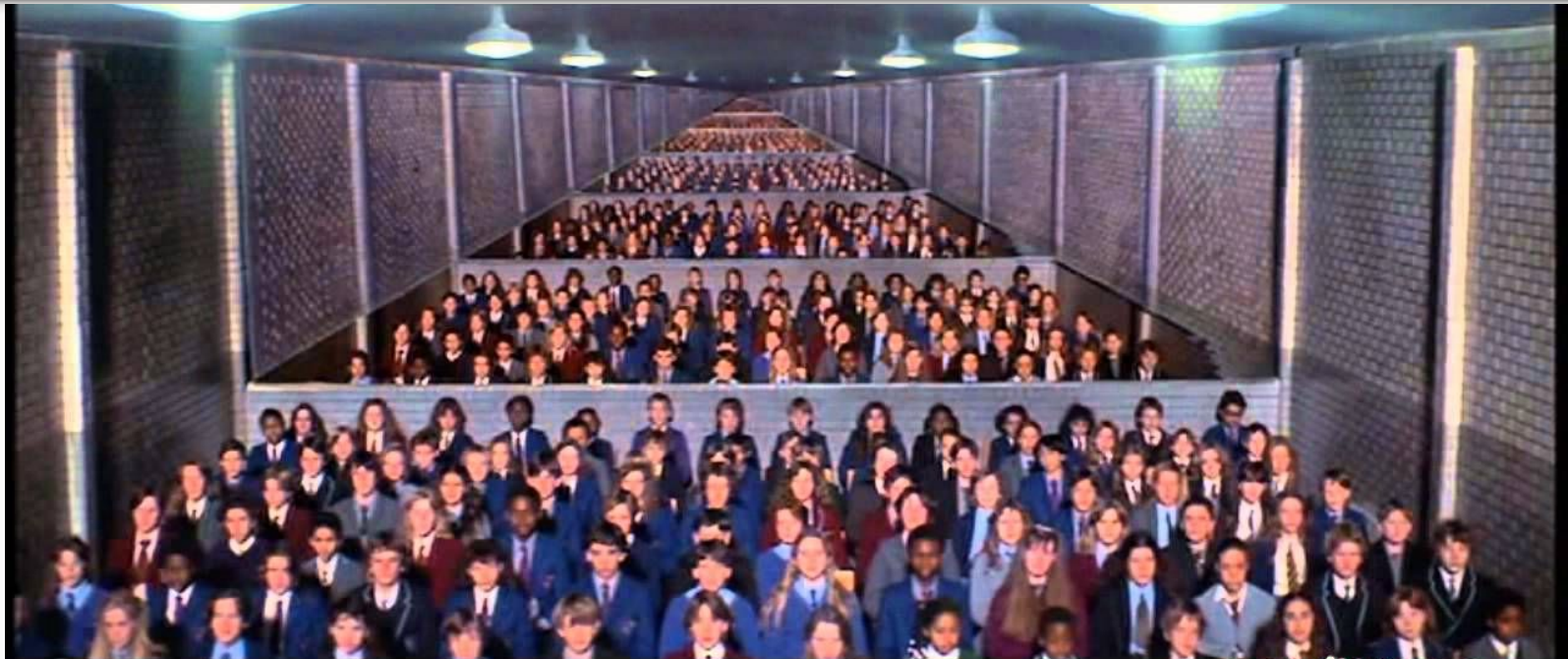Rochester Institute of Technology

Problem

Image: Pink Floyd's *The Wall*

Solution

- Make an app!
  - Make a *Pervasive System*

- One common backend to run everything
  - Dedicated server/system service on a Linux box run on the CS network
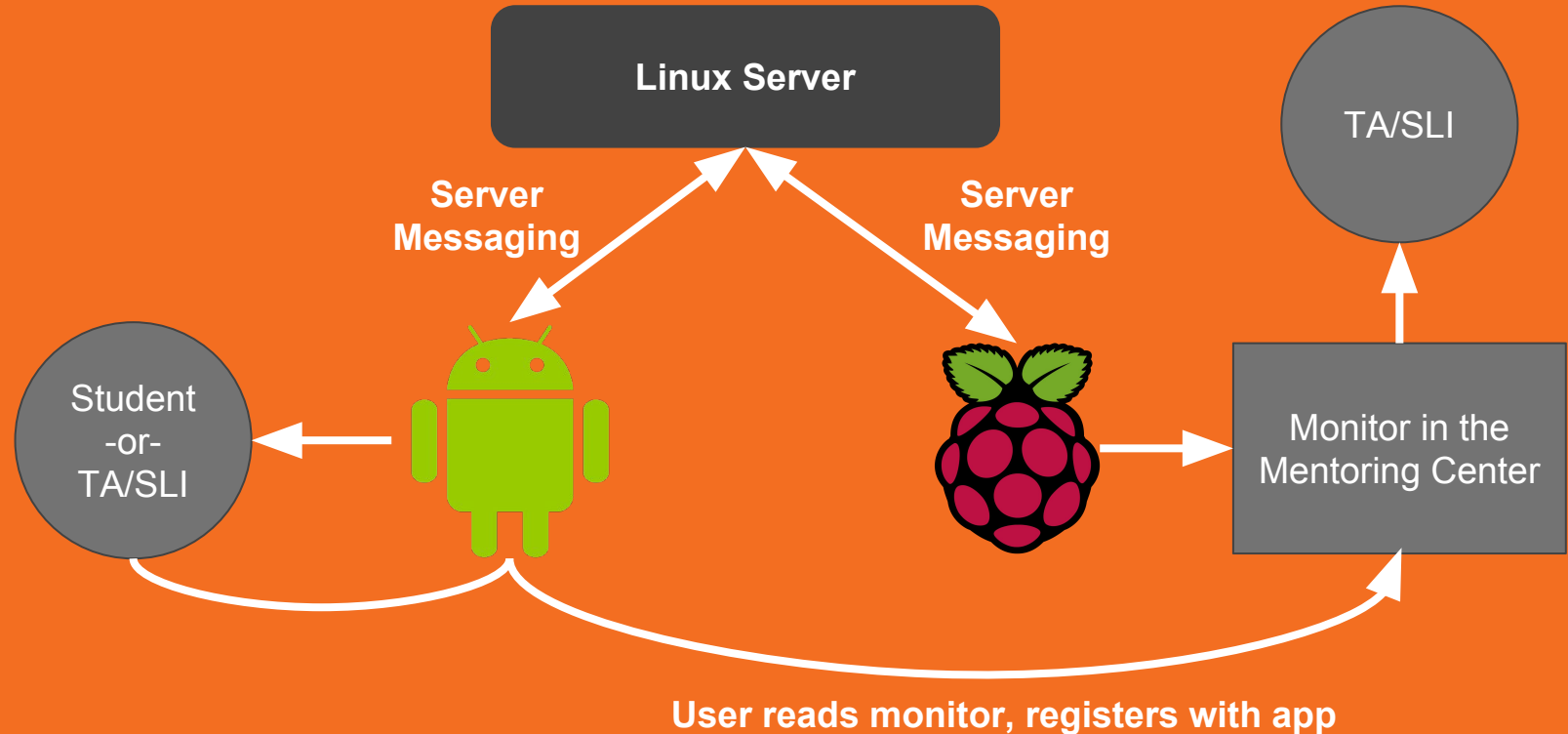
Ideal Features

- Two views for the students and tutors
  - Monitor in the mentoring center
  - Web view

- Tutors should do minimal management of the system
  - Tutors should "log in" to show that they are on duty
  - When they confirm they have helped a student, they should be told who is next in line

RabbitMQ

- Open Source messaging server

- Provides advanced features for scalable message queuing

- Not sure if this is overkill or if it will make our lives easier

Image: https://www.rabbitmq.com/

System Diagram

Linux Server

Server Messaging

Server Messaging

TA/SLI

Student -or- TA/SLI

Monitor in the Mentoring Center

User reads monitor, registers with app

Questions?