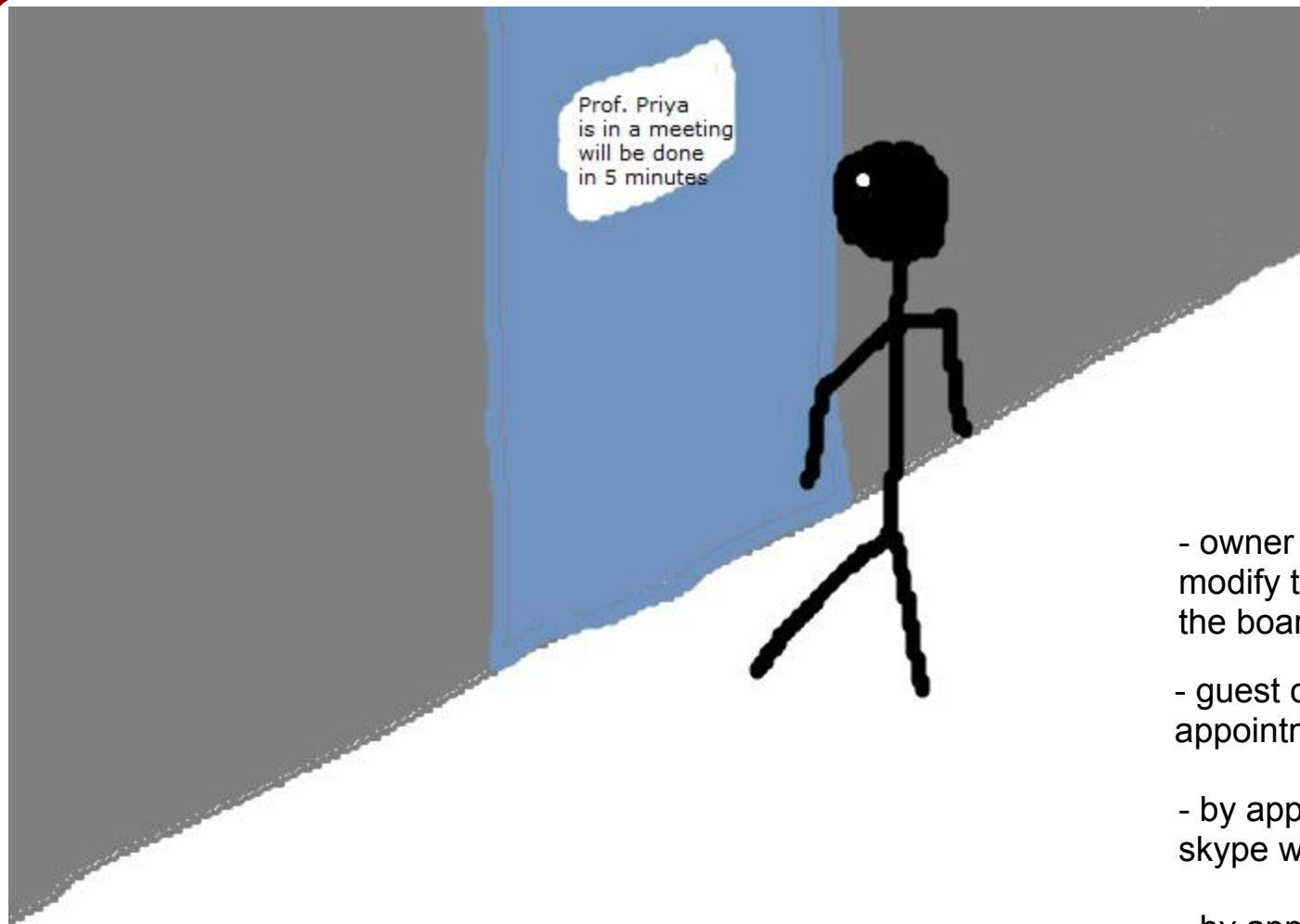


Smart Secretary Board

Team 10

Sung Jae Lee, Seung Min Choi, Sang won Choi, Inho Yong

Project Concept, Motivation



- owner can tweet to modify the messages on the board

- guest can schedule an appointment

- by approval, guest can skype with owner

- by approval, owner can unlock the door

Competitive Analysis

Conventional Black/White board
Electronic Message Board



Requirements

1. IR sensor - turn on the device when people gets near the door.
2. Webcam on tablet - people away from their office can know who stopped by.
3. Message - guest can leave message
4. One away from the office can change the message on the board by twitter.
5. Guest can make an appointment to google calendar
6. If owner of an tablet agrees, guest and owner can have skype call with or without camera.
7. Use Vlingo(android app) which changes voices to txt.
8. Will lock/unlock doors when away from office but a student needs access to something in the office.
9. Short entertainment feature while user is waiting on the door.

Technical specifications

1. Arduino (any kind)



2. Android Tablet

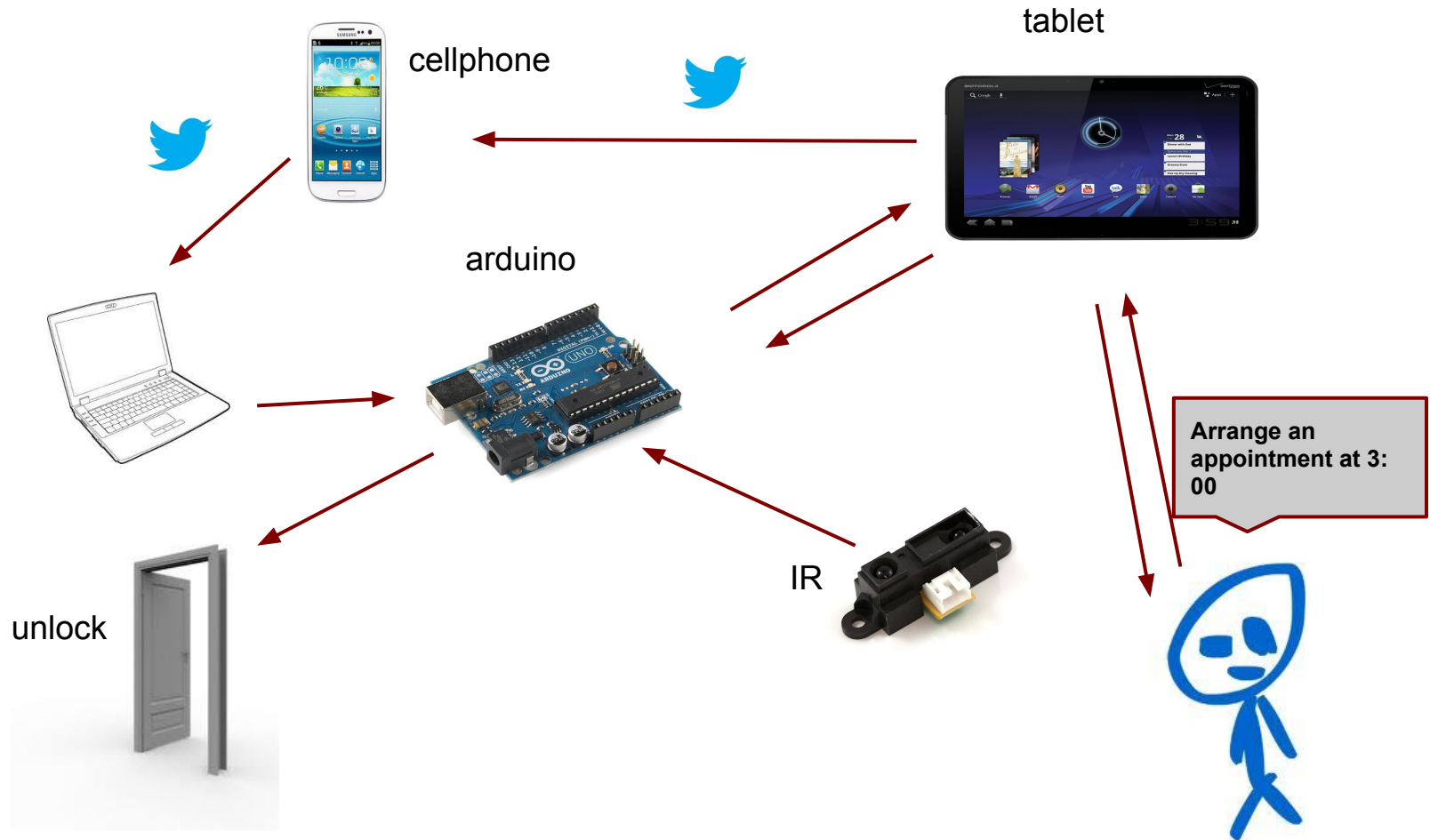


3. IR Sensor



- Tablet for voice recognition, camera, wireless.
- No touch input.
- Arduino interacts with 2 and 3.

Block diagram



Anticipated risks and mitigation strategies

1. No one knows about arduino-uncertain as to how it will manage the tablet display and sensors
2. More features needed for demo
3. Guest's input other than touching the screen.
(thinking of using voice recognition application from the tablet, but we need suggestions)
4. Privacy issue