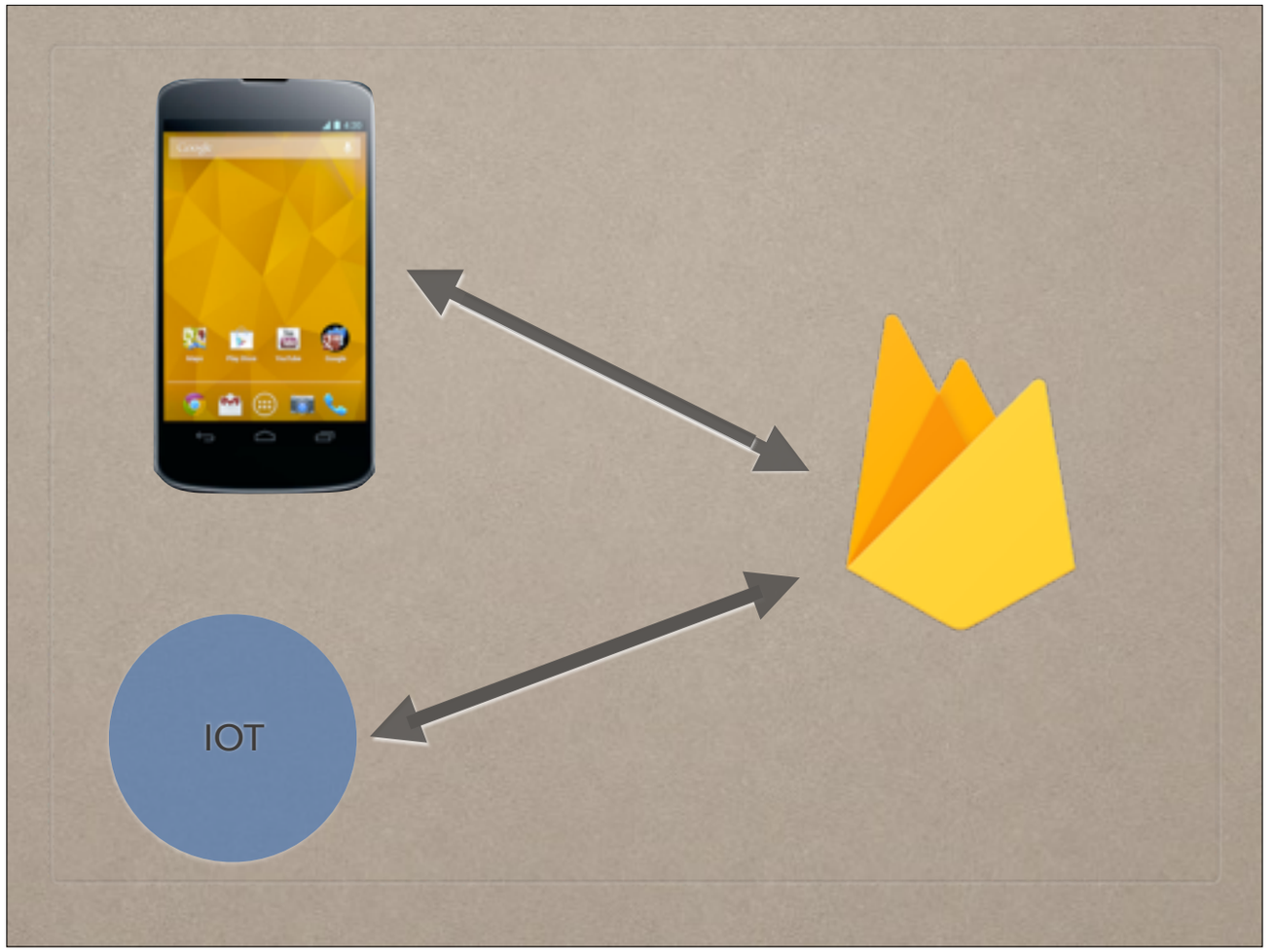
I ONLY TAKE

FRANCIS | ELVIS | FENGYE



Our solution first features an mobile app.
It allows users to check availability of resources like desks.

It retrieves and sends data from & to a realtime database. In this demo we will be using firebase.

We will be using a distance sensor to determine if the facility is in use. This data will be sent to the realtime database and retrieve from the phone. At the same time, it can gather booking data from firebase. More information will be given in the demo later.

CONVENIENCE

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- Minimum user interaction
- Fully automated

SCALABILITY

COST

- Ultrasonic HC-SR04 Distance Transducer Sensor
- US$0.77

- NodeMCU Development Board
- US$4.58

LED is very low cost, few cents worth.

LIGHTWEIGHT

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- Client side processing
- Easy on the network

Easy on the network because it will only send required data

SHARED RESOURCE

PRINTERS

- Our mobile app can tap into the print queue using IOT devices to detect how long the print queue is.
- This can update the mobile app to display how busy the printer is.

EXTENSIONS

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- TV Screen to show available seating
- Integration with keycards for more tracking

PREDICT AND SUGGEST

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- Microsoft Cognitive Services
  - Recommendation API

OFFICE MAINTENANCE

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- Auto maintenance
- Reporting

As we log the data of how many times the desk is being used, we can have the system automatically call maintenance/estates to send a technician to check on the health of the desk when it reaches a certain threshold to ensure all office equipment is up to standard.

There is an reporting system to report if the desk is broken and it will send a ticket to the technician.

Q&A