SE-340 GROUP WORK

Community Accessing Managing System
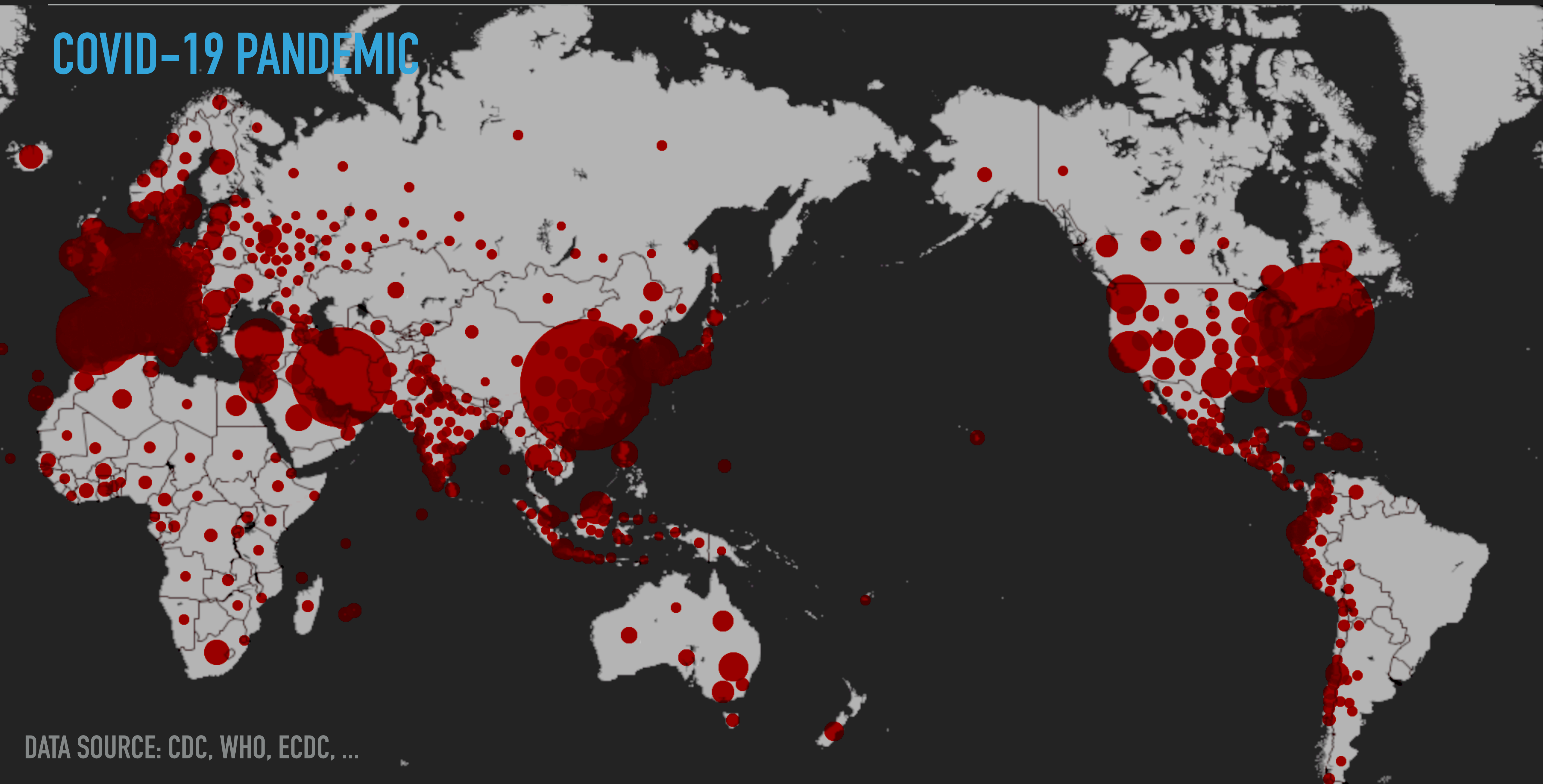
SE-340 GROUP WORK

SURVEY REPORT
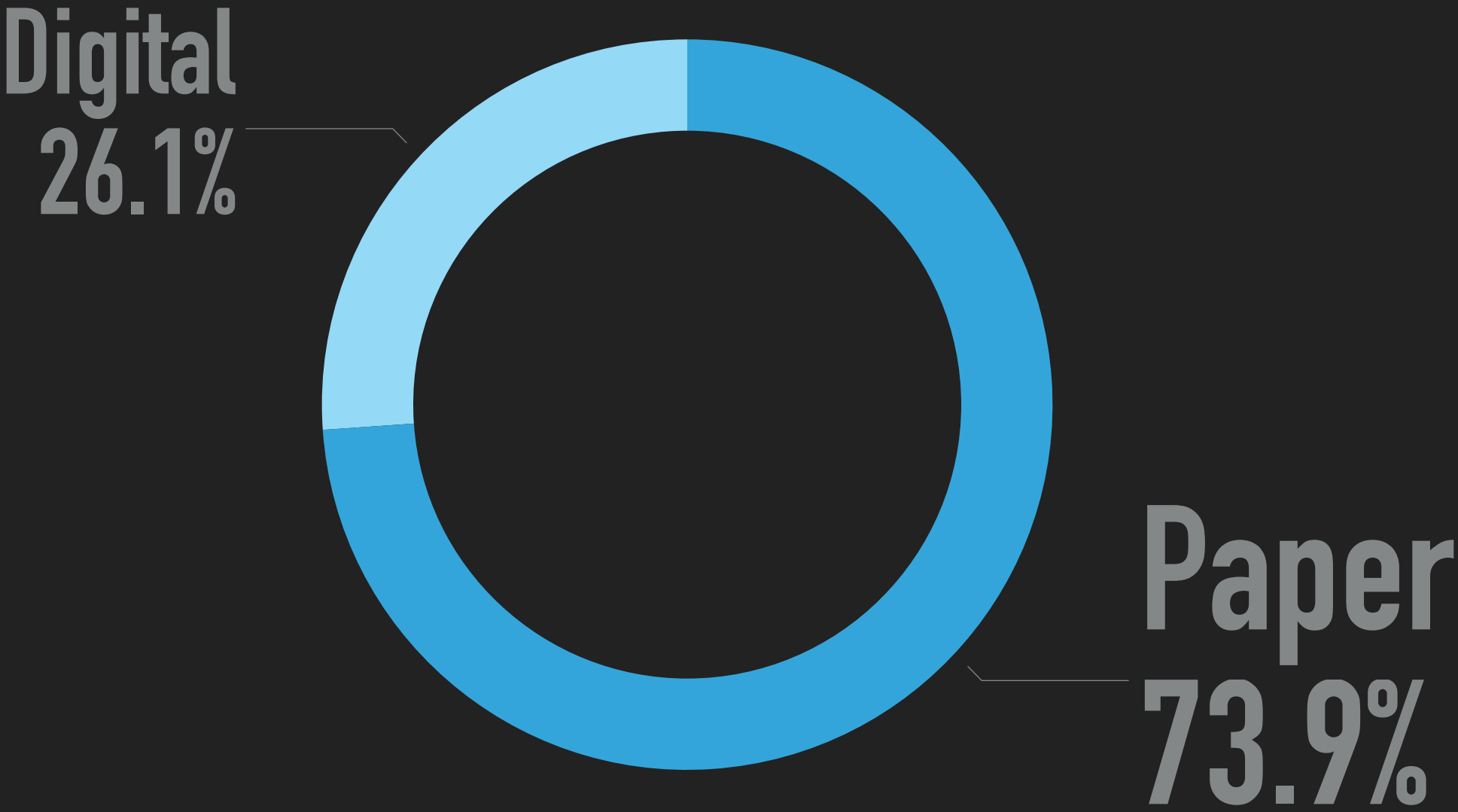
CONTENTS

▶ **SOCIAL BACKGROUND**

▶ **SURVEY DETAILS**

▶ **DATA ANALYSES**

COVID–19 PANDEMIC

DATA SOURCE: CDC, WHO, ECDC, ...

SURVEY RESULTS

Digital
26.1%

Paper
73.9%

COMMUNITY ACCESS TOKEN

DATA ANALYSES

▸ HIGHER CONTACTING FREQUENCY

▸ MORE WORKING BURDENS ON COMMUNITY WORKERS

TARGET USERS

COMMUNITY DWELLERS

THE ELDERS

TEMPORARY ENTERINGS

TARGET USERS

COMMUNITY
GUARDS

ADMINISTRATIVE
OFFICERS

FID REPORT

SYSTEM ARCHITECTURE

SERVER
PROVIDE SERVICE VIA HTTP API

CLIENT [1]
FOR DWELLERS

CLIENT [2]
FOR COMMUNITY GUARDS

CLIENT [3]
FOR SYSTEM SUPERVISORS

CLIENT FOR COMMUNITY DWELLERS

EDITING PERSONAL

INFORMATION

PERSONAL

ACCESSING REQUEST

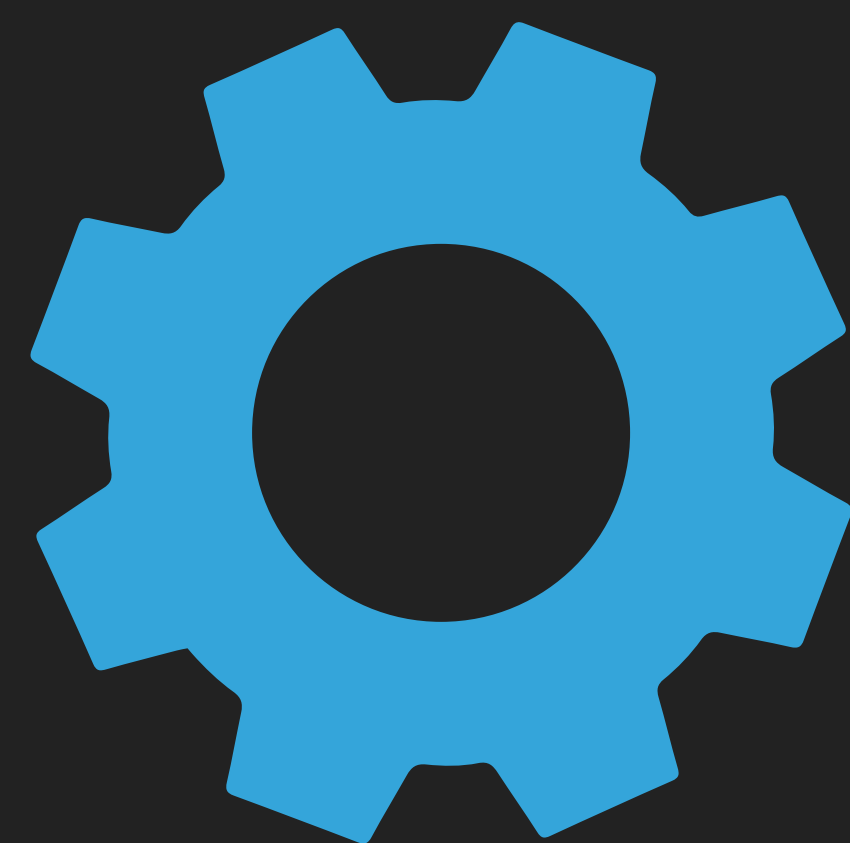RECEIVE COMMUNITY

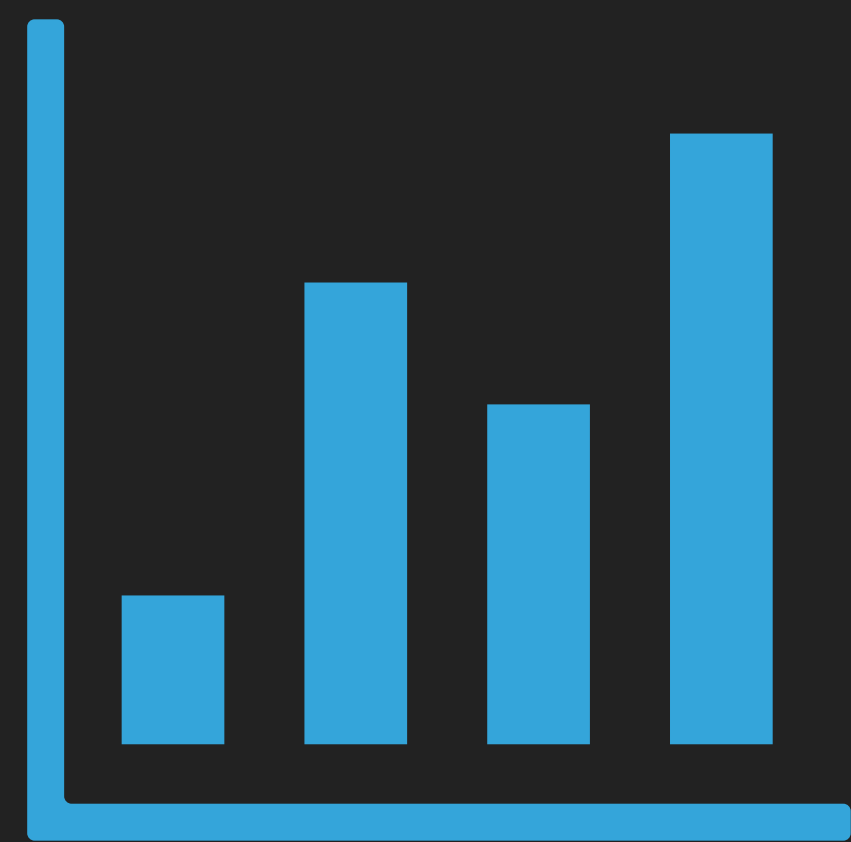NOTIFICATIONS

CLIENT FOR COMMUNITY GUARDS

APPROVE

ACCESSING

HUMAN FACE

COLLECTING

CLIENT FOR SUPERVISORS

CONFIGURE
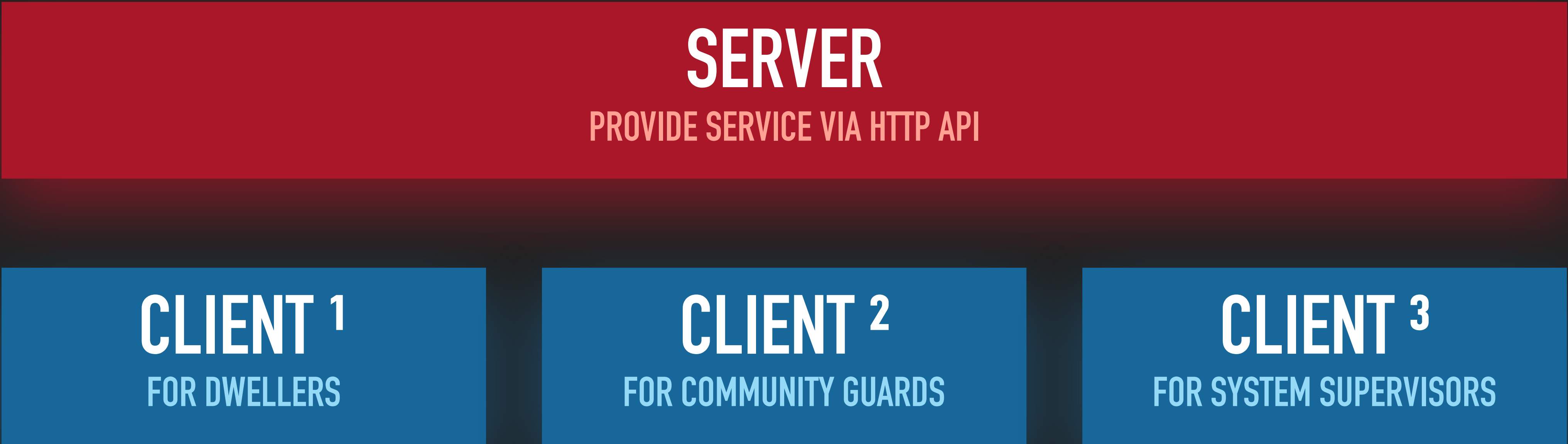
ACCESSING STRATEGY

DATA VISUALIZATION

USER

AUTHENTICATION

BRIEF TECH REPORT

CONTENTS

▸ **SYSTEM ARCHITECTURE**

▸ **DEVELOPING FRAMEWORK**

▸ **TECH HIGHLIGHTS**

SYSTEM ARCHITECTURE

SERVER
PROVIDE SERVICE VIA HTTP API

CLIENT [1]
FOR DWELLERS

CLIENT [2]
FOR COMMUNITY GUARDS

CLIENT [3]
FOR SYSTEM SUPERVISORS

CLIENT FOR COMMUNITY DWELLERS & GUARDS
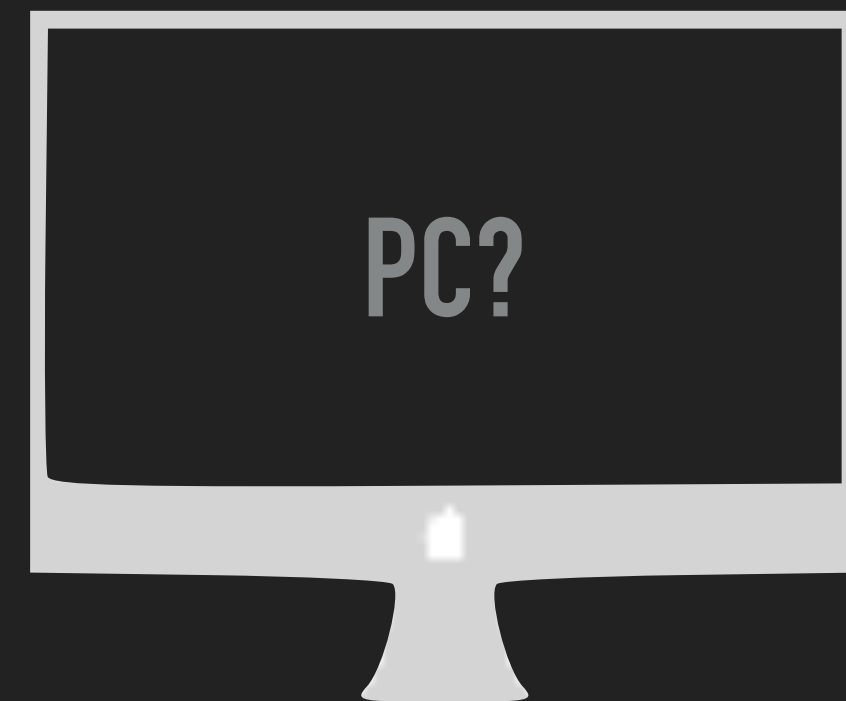
MOBILE OS MARKET SHARE IN 2019

KaiOS
0.2%

Windows Phone
0.1%

Others
0.3%

iOS
25.9%

Android
73.4%

- Android
- iOS
- Windows Phone
- KaiOS
- Others

DATA SOURCE: STATCOUNTER.COM
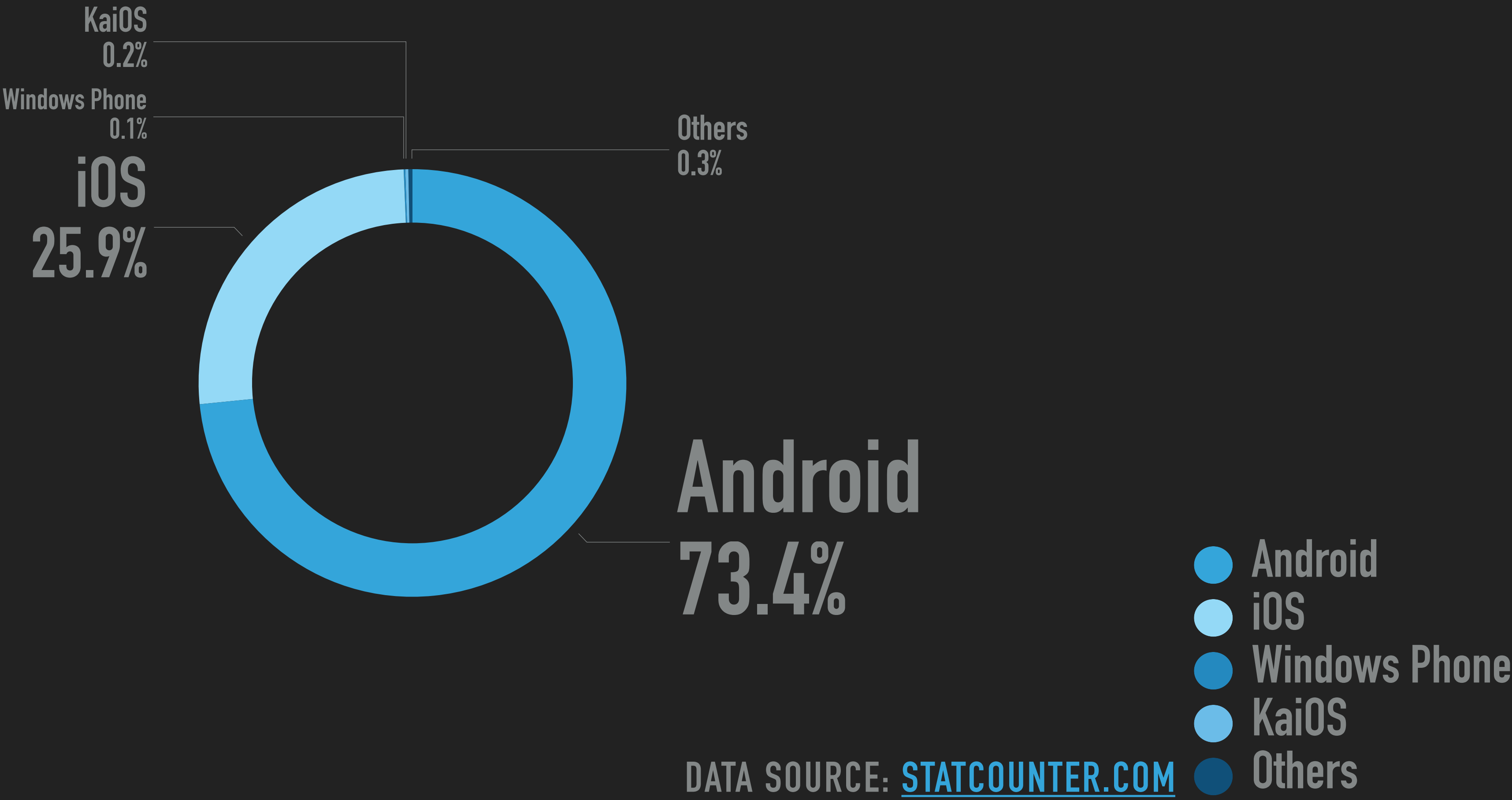
NATIVE DEVELOPING

Android Studio

Android SDK
Kotlin / Java

Xcode

Cocoa Touch
Swift / Objective-C

CROSS-PLATFORM FRAMEWORKS
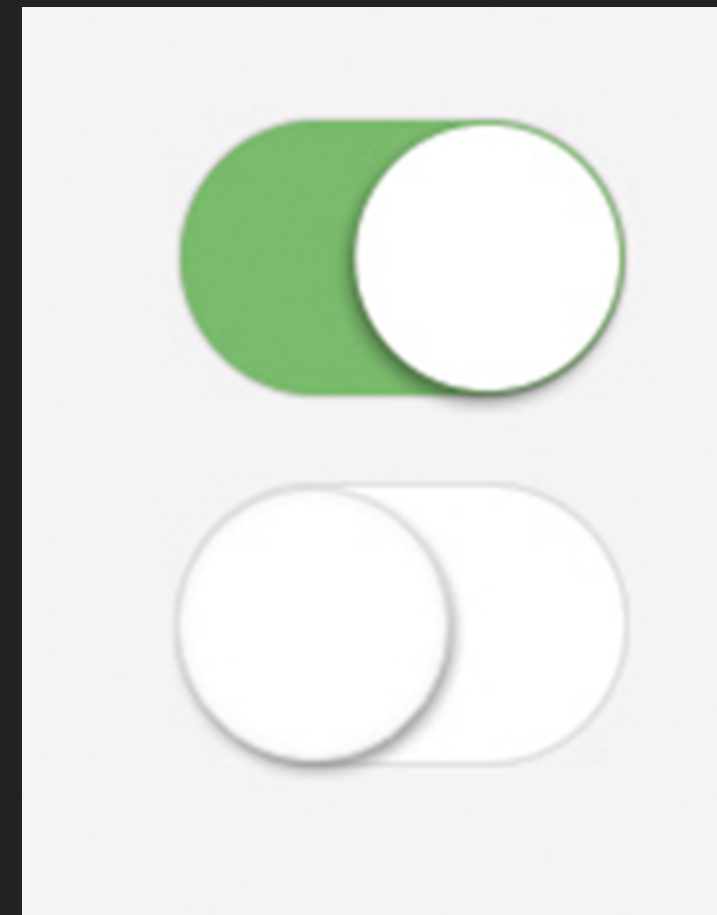
Flutter

React Native

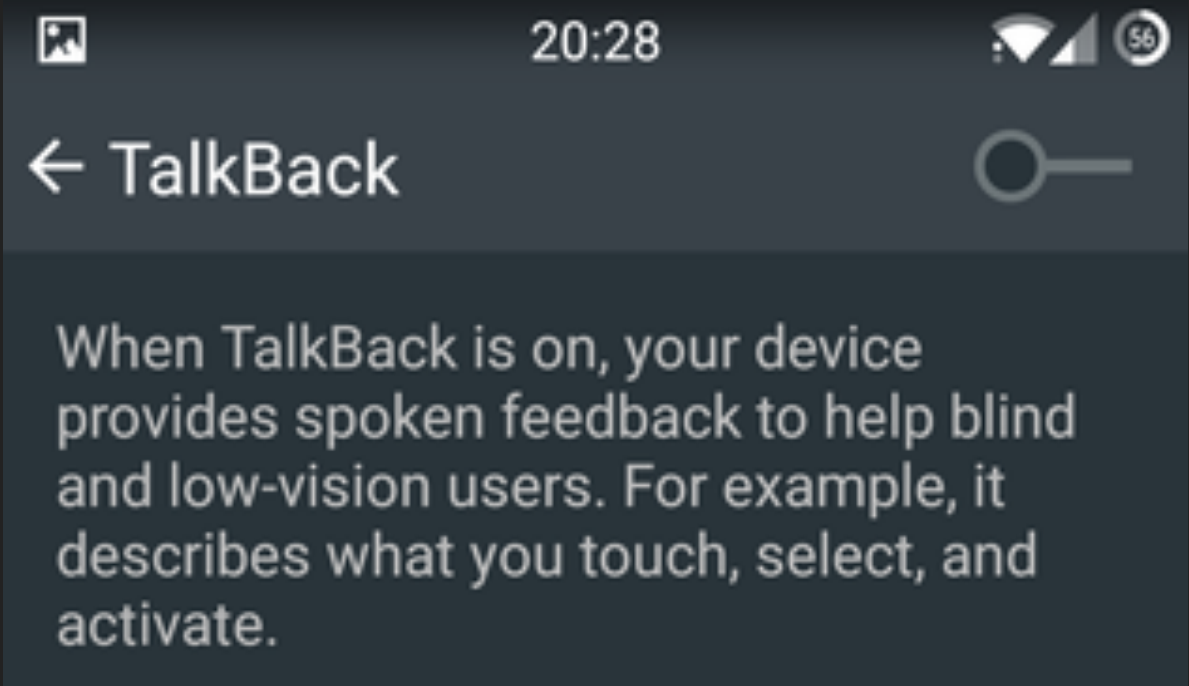# MINI APPS

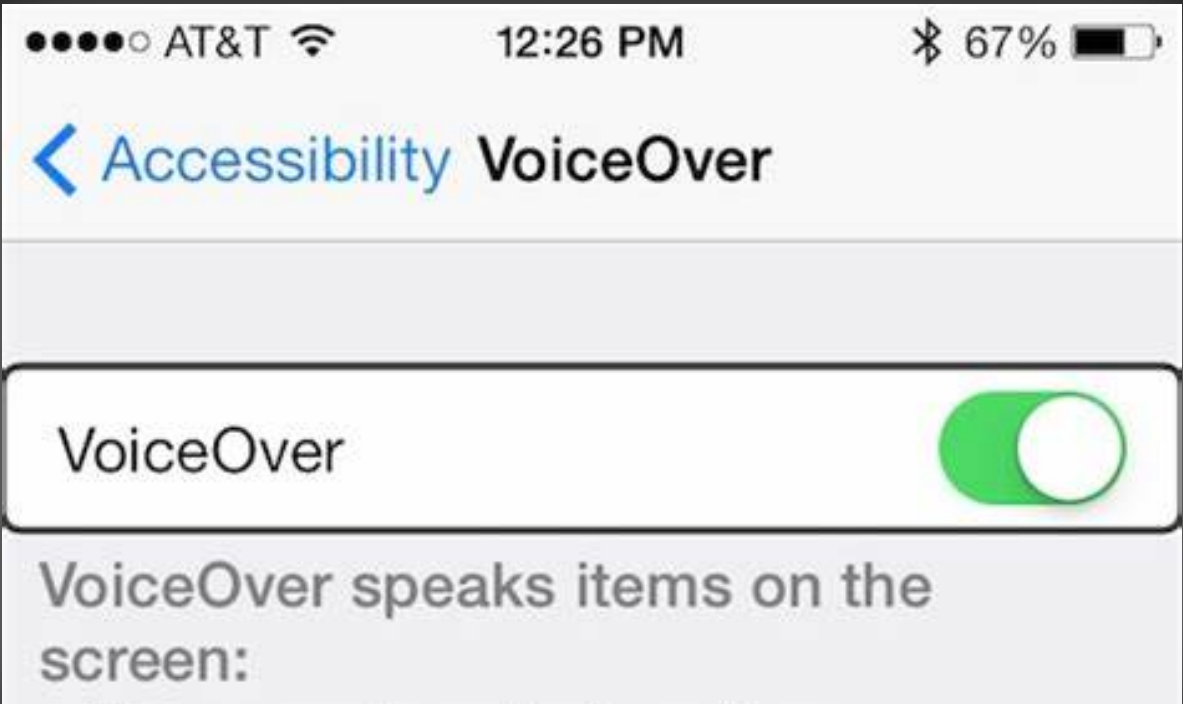**WeChat Mini-Apps**

Alipay Mini-Apps

UI DESIGN STYLE
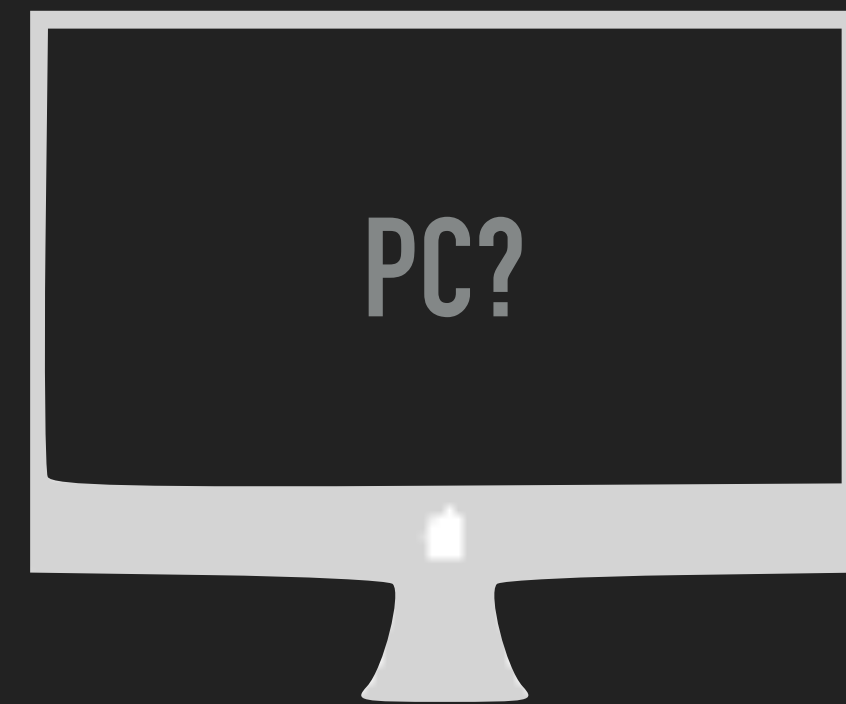
Material Design

"Cupertino" Design

ACCESSIBILITY

TalkBack

VoiceOver

CLIENT FOR SUPERVISORS

PC?

Mobile? Mobile?

WEB FRONT-END FRAMEWORK

TypeScript + Angular React Native
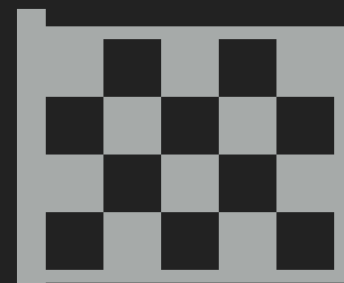
BACK-END FRAMEWORK

Python

Flask

Tornado

...

Java / Kotlin

SpringBoot

SE-340 GROUP WORK

THE END