Episode 1

Framing

Current Project: N/A
Essential Questions: What will we do in this club? What is Android Development?
Goals:

- Get an overview of the club and meet other Engineers
- Understand what Mobile Development is
- Learn about the Android operating system and ecosystem

*High priority goal

Materials / Resources

- Syllabus
- Laptop/Phone Assignments
- Club Hub
- Dessert Activity cards
- Dessert Kahoot
- Playsheet

Activities / Experiences

- Introduction to Android Club (15 mins.)
  - What will we do in this club?
    - In this club you will learn the basics of mobile development and Android, by building and playing with mobile apps. This club is for everyone, no matter how much experience you have with mobile development or writing code. With limited time ----- we will focus on exposure, not mastery.
    - Review syllabus
      - Coaches go over club expectations and typical day
      - Coaches name the big themes/projects that will be covered
    - Club hub
      - The Club hub will contain the syllabus online with links to slide decks, project guides, and other resources. (Coaches demo this by showing materials for today)
      - Go to http://github.com/codenextdroid/hub to find it, we will use this a lot throughout the club
  - What is Mobile Development?
    - Mobile Development is the process by which apps are created for mobile devices like phones, tablets, or watches.

- ○ Why Android?
  - ■ Android is developed by Google. Since Code Next is a Google program, using Android gives us access to resources, Google engineers, and technology related to Android like…..
  - ■ The Google Pixel! Each of you will be assigned your own Google Pixel phone to use in the lab, throughout the club.
    - ● Coaches should have these assigned beforehand, and will distribute them later.
  - ■ It would be too difficult to teach and learn multiple operating systems, so we will stick to one. But, the concepts you learn will be similar across platforms.
- ● Introduction to Android (15 mins.)
  - ○ Video
  - ○ Dessert activity
    - ■ Engineers do an activity/ice breaker around Android versions
      - ● Each Engineer picks an Android version card
      - ● Engineers with matching Android Dessert versions are paired. Tell each other their name, grade/school, and favorite dessert
      - ● Each Engineer uses https://www.android.com/history/ to find a fact about their Android version and present it, along with what they learned about their partner
    - ■ Engineers play a Kahoot about Android versions
- ● Break (10 mins.)
- ● The Google Pixel (15 mins.)
  - ○ What is the Google Pixel?
    - ■ Video
    - ■ Background
      - ● The Pixel/Pixel XL is a phone created by Google that runs Android OS
      - ● Originally announced in Fall 2016
      - ● Android 7.1 Nougat (Pure Android)
      - ● Ranked as best camera
    - ■ Features
      - ● Unlimited storage with Google photos
      - ● Very Silver, Quite Black, Really Blue
      - ● Google Assistant
    - ■ Pixel 2
      - ● Announced in Fall 2017
      - ● Just Black, Clearly White, or Kinda Blue
      - ● Song Identification, Google Lens
  - ○ Phone distribution
    - ■ Coaches give general expectations for phone use
    - ■ Coaches go over phone distribution and put away routines

- ■ Coaches give assigned phones to Engineers
- Play (20 mins.)
  - Cardboard/Daydream
  - Google Assistant
  - Google Photos
  - Free app/feature of your choice
- Reflection/Discussion (10 mins.)
  - Engineers share out which features or apps they used

Artifacts

- Play reflection sheet