

## Progress Report 4

Week of 11/10-11/16

### Objectives

1. To pitch to Innovation Studio on Wed. 11/20 about latest progress
2. To Re-learn creating and accessing another activity using button in android studio
3. To test Rekognition API call in Android studio
  - a. To find out whether all AWS Rekognition components are present in the IntelliJ/Android Studio version of AWS mobile SDK (i.e. Label, Instance, Parent, BoundingBox, etc., which are not completely present in the Eclipse version of AWS SDK)
  - b. To test calling Rekognition API directly in mobile app activity onCreate() method to obtain and print list of detected objects
4. To integrate new-activity, button-to-new-activity, Rekognition-api-call-on-S3-objects, and print-list-of-detection-result into the existing and working S3TransferUtilities app sample by AWS
5. (Stretch goal) to achieve multiple consecutive image detection and print to app

### Result

- Successfully pitched to Innovation Studio about Sixth Sense Project, be promised to receive funding for reprogrammable-vibrating-Bluetooth-wristbands (to Pulkit)
- Successfully re-learned creating new activity in Android studio, created sample app with main and secondary activity, and one button to switch from main to sub
- Successfully migrated all recognition API call source code from Eclipse to Android Studio, made adjustments to imports and components' names
- Created Rekognition Activity to run the API call code, implemented button to this activity from main, **program crashes on button press**

### Roadblocks

- Unknown bug/conflict causing app to crash when switching from main to Rekognition activity

### Proposed Solutions

1. Debug Rekognition Activity
  - a. (Unchanged) Clean project, rebuild project, run in debug mode, attach to process, find out the root cause to crashing (**obtain at least error message/print statement**)
  - b. If previous step a. proven unsuccessful, abandon newly-created Rekognition Activity; instead, **copy Upload/Download Activity and modify for same result**
  - c. Debug and polish until can print label list in activity text view
2. (**Alternative to debugging**) Put text view in main activity, copy Rekognition API call code to onCreate() main and start from there

### Breakdown of Time Spent

Figure 1 demonstrates the breakdown of Keming's time spent on the 6th Sense Project during week of 11/18 to 12/01, with total of 5 hours.

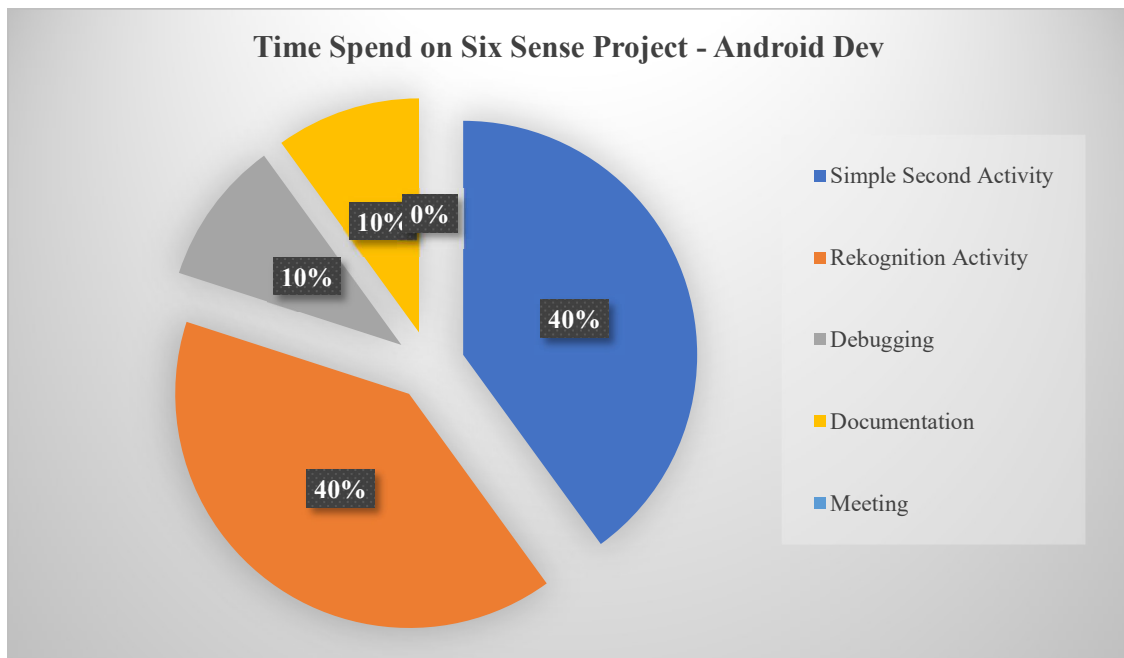


Figure 1 Breakdown of time spend on six sense

### Forward

3. (To Pulkit) Create money/budget list with history
4. (To Pulkit) Follow-up email to Dr. Fast and Dr. Wild about research