### **Progress Report 1**

### **Objectives**

- To create a sample Android application that successfully connects to AWS servers and calls the Rekognition API.
- To create a sample Android application that captures videos through the phone's camera, and stores the video feed to internal hard-drive.

#### Result

- Successfully setup IAM users for Keming, Pulkit, and Karthik, under Keming's root user.
- Successfully setup Keming's S3 bucket and Cognito Identity Pool for data upload.
- Successfully setup Keming's BIOS to allow emulation of Android phone for testing.
- Successfully setup Node.js®, npm, CLI, and the Amplify framework for mobile dev.
- Successfully created sample application and printed Hello World in main-activity.
- Failed to integrate Amplify with sample application using AWS tutorial.
- Discovered android app template and tutorial to run Rekognition. **Tutorial**: <a href="https://medium.com/how-to-integrate-aws-rekognition-in-android/aws-rekognition-in-android-9d16f16d591c">https://medium.com/how-to-integrate-aws-rekognition-in-android/aws-rekognition-in-android-9d16f16d591c</a>

**Template(s)**: <a href="https://github.com/awslabs/aws-sdk-android-samples">https://github.com/awslabs/aws-sdk-android-samples</a>

• Downloaded template, finished setup, found missing main-activity.

### **Breakdown of Time Spent**

Figure 1 demonstrates the breakdown of Keming's time spent on Six Sense in week of 10/20 to 10/26, with total of 6 hours.

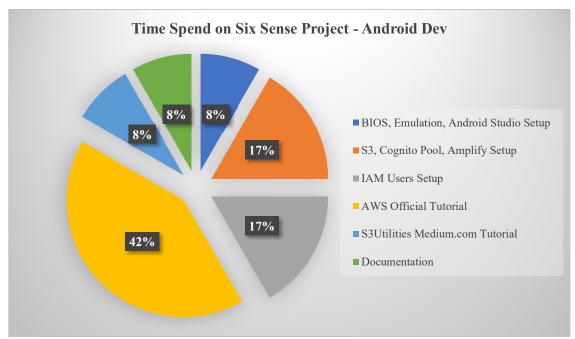


Figure 1 Breakdown of time spend on six sense

# Forward

For week of 10/27-11/2:

- 1. Finish following the S3TransferUtilities tutorial with Rekognition;
- Integrate sample main activity to template; -- end of hackathon
   Test prototype with sample video input. end of Nov. 9

Addition development goals and due dates are listed in Table 1 below. Table 1 Android App Dev Timetable

## Meeting Notes

### Karthik

Survey through IRB-institutional review board – demographic, 8 most prevalent landmarks Complement the walking sticks – landmark detector

Apply grants through:
National Science Foundation
National Federation of the Blind
Denman Undergrad. Research Forum – need adviser (CSE Prof.)

Use consultant's credibility to get community buy-ins.

BuckIRB – how much share are they gonna have on our creation?

Beth Snoke – smart Columbus – coordinate with bus stop detection

Be humble

Meeting w/ Oct. 31 3pm – Pulkit and Karthik – DL291

#### **Pulkit**

TODO: Front-end template design: xml in Android studio (only bus-stop for now, and TDD) no activities. One main activity.

PCB master std (Mihir)

On the PCB: bluetooth antenna, Atmega 328p chip, 3 out pins