

## Progress Report 3

Week of 11/10-11/16

### Objectives

1. To discuss strategies and to work on meeting the **11/20 pitch** presentation deadline
2. To regroup and plan out meeting the **12/14 MVP** deadline
3. To prototype working **S3TransferUtilities** Android app that uploads and downloads
4. To **integrate** the AWS Android **SDK** (Rekognition, S3, and core util) into the app
5. To test Rekognition API call in Eclipse and obtain **BoundingBoxs** for objects
6. **To test Rekognition API call in Android app**

### Result

- **Successfully integrated** AWS Android **SDK** to app in Android Studio using Gradle
- **Successfully** built, **ran**, tested image upload/download feature in **S3TransferUtil** app
- Read, **learned**, and tested the Rekognition DetectLabels **API** call in Java Eclipse
  - Able to detect labels (objects) in S3 bucket images and to return list of names
  - Found **missing components** in Eclipse SDK: Instance and Parent objects
  - Missing components made BoundingBoxs un-obtainable
  - Proposed **solution**: 1. Try call directly in **Android Std** 2. Test again in **IntelliJ**

### Roadblocks

- Missing components in AWS Eclipse plugin causing BoundingBox un-obtainable
- Lack of experience using IntelliJ IDEA
- Lack of experience coding backend in Android Studio
- Market-available vibrating wristband requires more research on how to operate
- Lack of guidance and assistant in Android dev, lack of personnel in general

### Proposed Solutions

- For the **untested Regonition API call in Android Std problem**  
AND the **missing AWS Rekognition component problem**  
AND the **lack of experience using IntelliJ problem**  
**Directly test Rekognition API call in Android Studio**
  - Create new button leading to new activity with text display box
  - New activity auto-calls Rekognition to analyze designated S3 bucket image
  - New activity prints DetectLabelResult object.toString() to text box
  - Developers can check whether Instance and Parent components exist
- For the (Bluetooth + vibrating) **wristband integration/PCB build problem**
- For the **regroup/refocus/recruitment problem**

### Breakdown of Time Spent

Figure 1 demonstrates the breakdown of Keming's time spent on the 6th Sense Project during week of 11/11 to 11/17, with total of 8 hours.

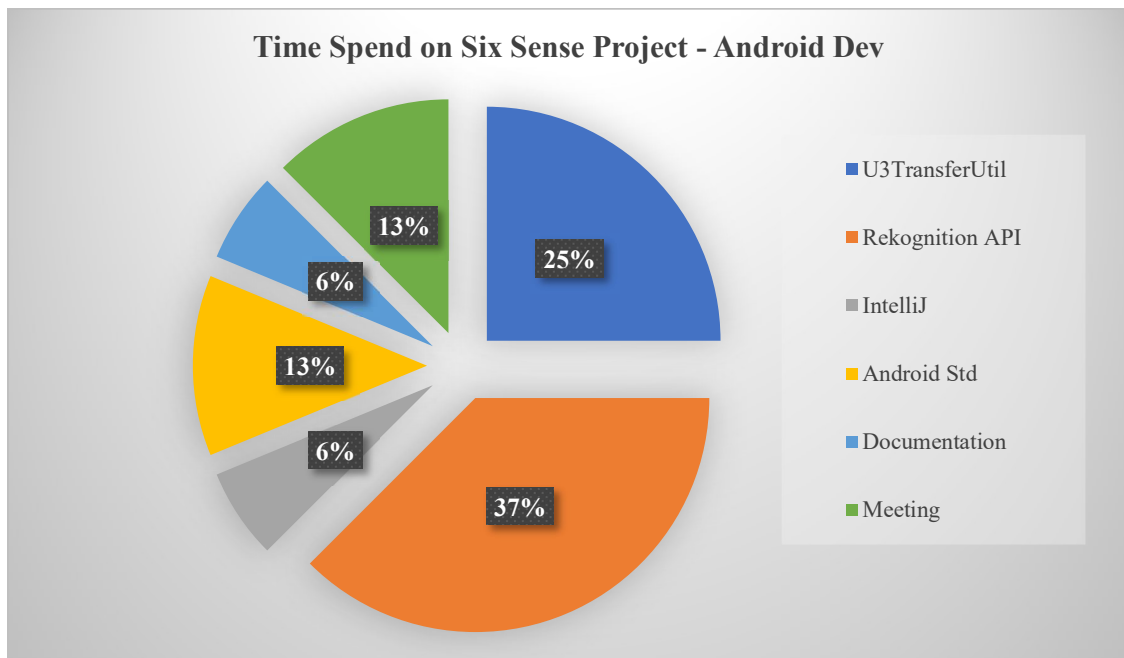


Figure 1 Breakdown of time spend on six sense

### Forward

1. Spreadsheet for money
2. Switch Git Repo from public to private
3. Byte 64 encoding image, instead of S3