

CprE 491 - sdmay19-38

## Android App Forensic Evidence Database

### Weekly Report 5

10/11/2018 - 10/18/2018

Client: Neil Gong and Yong Guan

Faculty Advisors: Neil Gong and Yong Guan

### Team Members:

Mitchell Kerr -- Tech Lead

Connor Kocolowski -- Report Lead

Emmett Kozlowski -- Meeting Scribe

Jacob Stair -- Testing Lead

Matthew Lawlor -- Meeting Facilitator

### Past Week Accomplishments

- Defined file that contains all methods requiring dependencies (useful methods for all crawlers)
- Created an abstract structure for collecting all the metadata on an application's webpage
- APKs can now be uploaded to CyBox
- An initial website design was created to mock how end users will interact with the system. This involved making sure that the major use cases were addressed and it flowed in a user friendly format.
- A simple flask app was created to communicate with the database however there seems to be communication issues that need to be addressed further.

### Pending Issues

- ApkMirror and UpToDown do not use the service-based structure yet
- When uploading files to CyBox, it is sometimes possible for the thread to lose connection
  - This issue can be fixed by having each thread attempt to upload a set number of times
- As of now, we are not creating subdirectories for the APK files. This can help with organization but it may not be necessary if a computer is going to loo
- After talking to our clients we realized that there were multiple problems with how the UI flowed and need to go back and revise it.

- There seems to be some communication issues between the initial flask app tasked with talking to the database that need to be investigated further.

## Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Mitchell Kerr	Obtaining all relevant metadata, including SHA and MD5	5	27
Connor Kocolowski	Abstracted metadata collection to be implemented by each crawler. Created a util file that contains general methods to be used by any crawler.	16	38
Emmett Kozlowski	Worked on communication of basic flask app to database. I also worked on designing an initial mockup of our web portal	5	24
Jacob Stair	UpToDown crawler now gets almost all metadata and downloads APK files	6	28
Matthew Lawlor	Worked on getting APK files uploaded to CyBox.	5	26

## Plans for Coming Week

- Have the uploads become more dependable by having multiple attempts at uploading
- Working simple flask app to communicate with database
- Finalize crawlers and fully implement shared dependencies
- Revision of website UI
- Begin implementing APKPure abstraction to other crawlers