CprE 492 - sdmay19-38

Android App Forensic Evidence Database

Weekly Report 11

01/29/2019 - 02/05/2019
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

- We got the database configured in a windows server from ETG. We were also able to have the crawlers insert documents into the database along with the metadata that is being collected from the websites. This has been an important step as we can now start integration testing between the components and the performance of our components. We have noticed that the components are working together but we are having some performance issues regarding retrieving information from the website.

Pending Issues

- Currently we are taking to long to crawl over the site and need to find ways to increase the speed of our programs.
- We need to get the required software installed in our production environment which we just found out may be challenging.
- Issues linking the google play crawler with a physical device and a google play account
- Issues abstracting unit testing to apply to all crawlers to reduce replication of work

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Mitchell Kerr	Researching for more crawlers, specifically Aptoide	2	54
Connor Kocolowski	I have been working on getting the google play crawler to be able to download apk files onto a computer. I have also been working to improve crawler performance.	10	80
Emmett Kozlowski	I have been working on setting up the database and integrating it with the crawlers and frontend. I have also been working on setting up the docker images to run our applications in.	6	69
Jacob Stair	Writing unit tests for crawler and abstracting them to work for all crawlers	3	57
Matthew Lawlor	I have started developing the web interface to access our data	3	53

Plans for Coming Week

- Complete a prototype for the frontend of our web interface
- Finish Aptoide crawler
- Finish Google Play crawler
- Research other relevant 3rd party app stores
- Work on moving the database into our production environment
- Complete the backend required to support our web interface
- Work on improving the library the crawlers are using to communicate with the database.
- Work on finishing unit tests and abstract them