CprE 491 - sdmay19-38

Android App Forensic Evidence Database

Weekly Report 12

02/05/2018 - 02/12/2018
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

- Created the backend to support the website. The backend is a node.js server thats goal is to support the front end with queries to the database.
- We have made small changes to the database schema to improve performance in addition to adding more information to improve the usefulness of the data.
- Created a web interface to query and display data from the database. This interface is developed in react.js.
- Linked the different apk version data to the corresponding application entry in the database
- Now able to successfully login to the google play store through the crawler

Pending Issues

- Need to figure out how apk files will be stored in our storage space.
- Current method of displaying database data does not effectively display all data
- Downloading google play applications to a computer rather that the physical device
- Found that abstractions for unit tests won't work as previously thought, will need to approach differently

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Mitchell Kerr	Worked on Aptoide crawler	5	59
Connor Kocolowski	Worked on downloading google play apps as well as populating the database from the crawlers	7	87
Emmett Kozlowski	Implemented backend for website and continued to monitor and test database insertions	10	79
Jacob Stair	Continued development on unit tests for UpToDown crawler and general testing library.	5	62
Matthew Lawlor	Built a web interface for users to query the database and display the stored data.	18	71

Plans for Coming Week

- Continue to add more endpoints for the backend to support for frontend features
- Work on implementing the new requirements for the database schema
- Add more crawlers to support saving info into the database
- Work on website filter system
- Create a different method to display database data
- Continue work on crawlers
- Monitor running crawlers to watch for and handle errors
- Get unit tests running for UpToDown crawler
- Complete Aptoide crawler, research using Selenium to account for infinite scroll