CprE 491 - sdmay19-38

Android App Forensic Evidence Database

Week 1 Report

09/05/2018 - 09/12/2018
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

- Language and library for web crawler - We decided to go with python for the web crawler due to previous crawlers being implemented in python and good supporting libraries. The main supporting libraries that we are looking at currently are Scrapy and Beautiful Soup.
  - When conducting our research, we found that two of the most prevalent crawler libraries were Beautiful Soup and Scrapy.
  - We choose python based on the fact that:
    - There are web crawler libraries supported by third parties
    - Python is faster than Java (who has a counterpart of Beautiful Soup)
- We decided to look back at previous crawlers, that no longer function in order to get a basis of how our implementation can work

Pending Issues

- Code repository we are currently basing our work off of has not been updated in a couple of years - Everyone
  - Crawlers do not function
- We need to brush up our Python skills - Everyone
  - Some members will have to learn python
- Scrapy vs. beautifulsoup
  - Need to decide which has more utilization towards our project

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Mitchell Kerr	Research on languages to use and different libraries within each language.	3	3
Connor Kocolowski	I did some research figuring out how previous web crawlers functioned.	3	3
Emmett Kozlowski	I did some research regarding what language and libraries we should use for the web crawler.	4	4
Jacob Stair	Research on languages to use and pros and cons of web crawler libraries.	3	3
Matthew Lawlor	I did research on what languages to use and studied the git repository the professors showed us.	3	3

Plans for Coming Week

- Work towards creating a crawler for APKPure
  - One group will work using Scrapy, one will use Beautifulsoup
- Make initial pushes to Git
  - Create structured task board
  - Create crawler file system
- Begin research on database schema