

**sdmay19-23: Mobile, Biometric Bitlocker**

Week 6 Report

February 25 – March 1

**Team Members**Larisa Thys — *Scrum Master*Morgan Anderson — *Scribe*Justin Kuhn — *Test Engineer*Cole Alward — *Storyboard Master*Ammar Khan — *Product Owner*Yousef Al Absi — *DevOps Engineer*

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**Summary of Progress this Report**

Finished encryption and functions to use quantized data to form a key. Almost most finished the conversion of python files to java. With more testing and management activities.

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**Pending Issues**

Issue 46 - Fixed Makefiles for Lib

Assigned to: Yousef Al Absi

Issue 40 - Create Key Generation Method

Assigned to: Morgan Anderson

Issue 33 - Encrypt files using PUF encryption

Assigned to: Cole Alward

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**Plans for Upcoming Reporting Period**

Issue 49 - Integrate Morgans Changes and Added comments for Cole

Assigned to: Larisa Thys

Issue 48 - Integrate Encryption with Application

Assigned to: Cole Alward

Issue 47 - Fixed makefiles for Application

Assigned to: Yousef Al Absi

Issue 45 - Making key from Quantize data

Assigned to: Morgan Anderson

Issue 43 - Re-write Util.py to Java for authentication

Assigned to: Justin Kuhn

Issue 30 - Re-write ResponseGen for authentication  
Assigned to: Ammar Khan

### Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Larisa Thys	Worked on picking points for challenge generation. Also helping morgan and cole with their tasks.	7	101.5
Morgan Anderson	Created key from quantization data to be used	5	84.5
Justin Kuhn	Read logged test results from XML in testing of existing python scripts to determine expected results. Looked into alternative PUF normalization method.	5	81
Cole Alward	Created the foundation for encryption going forward. The main activity creates a test file on startup, and there is a tab that the user can click on that will encrypt and decrypt the files. It uses AES, and a dummy key which will be replaced with the PUF key can we are able to retrieve it.	23	98
Ammar Khan	Continued testing the rewritten Python Scripts with the actual CSV files. Found several bugs in the rewrite and was able to fix them. Also found a potential bug in the original Python implementation regarding how the data was parsed through arrays. Contacted client to ensure I was not making a mistake and began working on a fix. Also ran into issues with how the data was being converted to bytes and then decoded and written to the file and began trying to fix them.	8	92
Yousef Al Absi	TBD	0	80

### Gitlab Activity Summary

PUF Repository:

Created New Branch

Made At: 2019-02-28T04:49:21.162Z Author: calward Branch Name: MBB-33

Pushes:

Pushed At: 2019-03-01T19:46:35.531Z Author: calward To Branch: MBB-33 Commit Message: encrypt and decrypt working now

Pushed At: 2019-03-01T01:46:50.906Z Author: calward To Branch: MBB-33 Commit Message: decrypting not working

Pushed At: 2019-02-28T05:36:39.698Z Author: calward To Branch: MBB-33 Commit Message: added textviews for encrypted and decrypted text

Pushed At: 2019-02-28T05:27:31.204Z Author: calward To Branch: MBB-33 Commit Message: reading and writing to/from file

Opened Merge Request:

Accepted Merge Request:

Closed Merge Request:

Made At: 2019-02-25T23:32:49.313Z Author: lmandrew Description: Get DevOps working again

Made At: 2019-02-25T23:32:45.907Z Author: lmandrew Description: DevOps for PUF

Comments:

Made At: 2019-03-01T01:50:23.248Z Author: calward Commented On: Issue Comment: Using this [encryption scheme](<https://gist.github.com/calward/3a195a446befc30931b334f2318d632d>)

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