

sdmay19-23: Mobile, Biometric Bitlocker

Week 4 Report

February 11 - February 18

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

Summary of Progress this Report

We were able to find the function that returns a bitset to make into a key. We also have made some progress in converting the python files to java.

Pending Issues

Issue 40 - Create Key Generation Method

Assigned to: Morgan Anderson

Issue 37 - Spike: Look into lib's to convert python to java

Assigned to: Ammar Khan

Issue 36 - Get DevOps working again

Assigned to: Yousef Al Absi

Issue 28 - DevOps for PUF

Assigned to: Yousef Al Absi

Issue 27 - Changing Challenge Generation Method

Assigned to: Larisa Thys

Issue 26 - Change Puf drawing method

Assigned to: Larisa Thys

Plans for Upcoming Reporting Period

Issue 45 - Making key from Quantize data

Assigned to: Morgan Anderson

Issue 44 - Spike: Figure out how the authentication in the app is working

Assigned to: Larisa Thys

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

Assigned to: Justin Kuhn

Issue 38 - Fix Make Files
Assigned to: Yousef Al Absi

Issue 33 - Encrypt files using PUF encryption
Assigned to: Cole Alward

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

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Larisa Thys	I worked with Yousef and Morgan to find the normalization function and see if it was working. I also did some searching through the code to see how authentication is working.	6	89.5
Morgan Anderson	I worked with Larisa and Yousef to determine if the quantization method suggested by Tim functions properly. We found that the method does work and, consequently, investigated how to use the output for public key generation within our application.	5	74.5
Cole Alward	Tested pending merge requests and updated them with issues I found. Worked with the PUF library, specifically the challenge and response classes to try to determine why time vectors are still 0.	6	68
Amamr Khan	Continued to work on rewriting Python Scripts to java. The scripts use files in a GitHub repo so I attempted to find them but was unsuccessful. Need to ask client where to get these files so I can begin properly testing the data parsing.	5	80
Justin Kuhn	Began testing python utils with unit tests to gauge current expected results. Began rewriting util methods in Java and outlining similar junit tests to match current functionality. Some existing util functionality seems incomplete, or currently inoperable, requiring research to proper use case or input.	6	71

Yousef Al Absi	I figured the quantization method and helped in generating the 128 Bit set that will be converted to our key next. I investigated the make files and found a few issues within the app/library.	6	74

Gitlab Activity Summary

Nothing to report.
