sdmay19-23: Mobile, Biometric Bitlocker
Week 3 Report
February 4 - February 11

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

Summary of Progress this Report
Did more investigation on how to create a key, fixed the challenge generation. Also continued converting the the python scripts to java.

Pending Issues
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 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 42 - Evaluation Points did not Fix it All, so Fix that
Assigned to: Cole Alward

Issue 40 - Create Key Generation Method
Assigned to: Morgan Anderson

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

Issue 34 - Map PUF Test Functionality
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 fixing the challenge method by creating a dot for each quadrant of the screen so they did not intersect. Also implemented highlighting for the listview for ease of use. Went over tickets and re-read research paper.	6	83.5
Ammar Khan	Started working on rewriting python scripts again since the external libraries I tested last week failed.	5	75
Cole Alward	Tested Morgan's merge request again to see if It would build. Worked with PUF library to determine why time vectors were being set to 0. Contacted Tim for suggestions on how to fix previous error. Began implementing Tim's suggestions.	8	63
Morgan Anderson	Continued to debug Cole's problem with the merge request, began looking into key generation techniques	5	69.5
Justin Kuhn	Continued fixing compilation errors in the PUF repository. Discovered the current status of existing unit tests. Diagnosed stubborn errors and found their root causes for future solution. Created new test tickets for implementing new tests and solving existing failing tickets.	6	65
Yousef Al Absi	Worked on fixing the make files and mapped the current project using Atlas to help Morgan with her ticket on finding the key generation and working around it.	6	68

Gitlab Activity Summary
PUF Repository

Created New Branch
Made At: 2019-02-11T23:17:46.629Z Author: jrkuhn Branch Name: MBB-34

Pushes:
Pushed At: 2019-02-11T22:30:53.442Z Author: lmandrew To Branch: MMC_26 Commit Message: made the list highlighted, fixed the challenge genearator

Opened Merge Request:
Made At: 2019-02-11T23:05:24.544Z Author: lmandrew Description: Profile List and Challenge Changes
Made At: 2019-02-11T22:51:29.009Z Author: lmandrew Description: Profile List and Challenge Changes

Accepted Merge Request:

Closed Merge Request:
Made At: 2019-02-11T22:56:35.934Z Author: lmandrew Description: Profile List and Challenge Changes

Comments:
Made At: 2019-02-11T22:51:37.852Z Author: lmandrew Commented On: MergeRequest Comment: @all

Sdmay19_23 Repository

Created New Branch

Pushes:

Opened Merge Request:
Made At: 2019-02-11T23:32:19.549Z Author: lmandrew Description: Map PUF Test Functionality
Made At: 2019-02-11T23:32:13.889Z Author: lmandrew Description: Spike: Look into lib's to convert python to java
Made At: 2019-02-11T23:29:31.182Z Author: lmandrew Description: Spike: Figure out how the authentication in the app is working
Made At: 2019-02-11T23:25:33.495Z Author: lmandrew Description: Re-write Util.py to Java for authentication
Made At: 2019-02-11T23:15:15.751Z Author: lmandrew Description: Evaluation Points did not Fix it All, so Fix that
Made At: 2019-02-11T22:22:48.839Z Author: jrkuhn Description: Validate Existing Unit Tests
Made At: 2019-02-05T03:11:43.111Z Author: lmandrew Description: Create Key Generation Method

Accepted Merge Request:

Closed Merge Request:
Made At: 2019-02-11T23:12:40.958Z Author: lmandrew Description: Creating Basic Andriod Application in gitlab repository
Made At: 2019-02-11T23:12:33.181Z Author: lmandrew Description: Spike: Look into lib's to convert python to java
Made At: 2019-02-11T23:12:15.433Z Author: lmandrew Description: Change Number of Max Profiles to 10
Made At: 2019-02-11T22:24:57.479Z Author: jrkuhn Description: Map PUF Test Functionality
Made At: 2019-02-05T03:11:20.846Z Author: lmandrew Description: Locate and test PUF key generation methods

Comments:
Made At: 2019-02-11T23:24:22.304Z Author: lmandrew Commented On: Issue Comment: This ticket is now just for ResponseGen.py translation.
Made At: 2019-02-11T23:10:28.091Z Author: mandrsn Commented On: Issue Comment: Refer to the following:

https://developer.android.com/guide/topics/security/cryptography

https://git.ece.iastate.edu/sd/sdmay19-23/issues/6

Also refer to Tim's email (quantization)
Made At: 2019-02-05T03:11:09.340Z Author: lmandrew Commented On: Issue Comment: After doing some searching, we were not able to find any key generation methods. We then consulted Tim Dee the PhD student helping us with the project and it seems like there is no key generation method. So this ticket will be closed and a new ticket created to create a key generation method with the information that the application does give us.
Made At: 2019-02-04T23:51:42.033Z Author: jrkuhn Commented On: Issue Comment: Correcting bugs in test compilation to further test existing test functionality