

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

Week 10 Report

November 5 - November 12

**Client/Advisor:** Dr. Akhilesh Tyagi and Timothy Dee**Team Members**Ammar Khan — *Product Owner*Justin Kuhn — *Test Engineer*Morgan Anderson — *Scribe*Cole Alward — *Storyboard Master*Larisa Andrews-Thys — *Scrum Master*Yousef Al Absi — *DevOps Engineer*

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**Summary of Progress this Report**

This week we worked on technical issues, which involved continued effort on debugging issues within PUF. Additionally, we continued working on emulator issues and integrating the application into a format to further integration of our project.

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**Pending Issues**

Issue 32 - Locate and test PUF key generation methods

Assigned to: Morgan Anderson

Issue 30 - Re-write python scripts for authentication

Assigned to: Ammar Khan

Issue 28 - DevOps for PUF

Assigned to: No one

Issue 25 - Change authentication algorithm

Assigned to: Ammar Khan

Issue 24 - Change normalization algorithm

Assigned to: Ammar Khan

Issue 23 - Change number of evaluation points to 32

Assigned to: Cole Alward

Issue 20 - Include Mockito for individual unit tests

Assigned to: Justin Kuhn

Issue 19 - Making restrictions for repository

Assigned to: Morgan Anderson

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**Plans for Upcoming Reporting Period**

Issue 34 - Map out test functionality

Assigned to: Justin Kuhn

Issue 33 - Encrypt files using PUF encryption

Assigned to: No one

Issue 31 - Create temp files to encrypt

Assigned to: Cole Alward

Issue 29 - DevOps for App

Assigned to: No one

Issue 27 - Changing Challenge Generation Method

Assigned to: Larisa Andrews-Thys

### Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Ammar Khan	I began rewriting the Python Scripts to try to solve the issues with PUF authentication, which was highlighted in last week's report. Unfortunately, I was unable to complete refactoring the scripts, as they were quite sizeable and will require a bit more time for me to finish and properly integrate into the project. As usual, I coordinated team communication with the client.	7	59
Justin Kuhn	I polished and merge-requested the addition of mockito and accompanying test cases to be peer reviewed and included in the master branch of the project. I also began analyzing the project structure of PUF for test cases of major library operations.	5	51
Morgan Anderson	Unfortunately, I had computer issues this past week (random shutdowns), so I was only able to review merge requests and investigate the code to locate the PUF key generation functionality. Additionally, I reviewed feedback on the team's proposed design document, preparing for future discussions and revisions concerning the second version.	5.5	55.5
Cole Alward	I made a request for a Nexus 7 from ETG because it became clear that using an emulator would not be sufficient for testing. I	5	47

	investigated milestones for GitLab, for I believe using them will help track our progress better. The idea was to use a burndown chart from GitLab; unfortunately, burndowns are only included with GitLab Premium. As a result, I looked into 3rd party tools for burndown charts as well as Gitlab's other tools for measuring metrics.		
Larisa Andrews-Thys	This week, I worked mostly on making a script that would gather information from both GitLab repositories so we could include meaningful Git activity in our weekly reports. I also went through our design document and prepared for this week's meeting.	7.5	65.5
Yousef Al Absi	I wrote bash scripts for building and started working on the scripts for deployment. I also set up the environment in Gitlab in one of the repositories and worked on it for the other one.	7	52

**Gitlab Activity Summary**

Nothing to report.

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