

Table 1: Revision History

Date	Developer(s)	Change
September 29, 2017	Suhavi Sandhu, Shabana Dhayananth, Joseph Lu	Initialization

SE 3XA3: Development Plan

Title of Project

Team 28, Tuples1
Suhavi Sandhu, sandhs11
Shabana Dhayanath, dhayanas
Joseph Lu, luy89

September 29, 2017

Development Plan of our product Password Protection Program.

1 Team Meeting Plan

The team will be meeting twice a week, every week, on Tuesdays and Thursdays at Thode library. We have decided to rotate the roles every other week to split responsibilities equally.

Researcher - Shabana

Team Leader - Suhavi

Scribe - Joseph

Developer - all

The meeting agenda will be filled out by the scribe after every meeting and uploaded to the git repository for all members to access. Below is a template for the meeting minutes. It notes down the details of the meeting and also provides a guideline for the meetings progression. Ideally, we will start by updating the rest of the team with what we have accomplished since the last meeting, followed by items that need to be addressed (problems, opinions, questions), and at the end, what needs to be done by the next meeting. There will also be a written statement on decisions made during the meeting.

Meeting Minutes			
Meeting no	Location	Meeting Date	Attendees
Meeting no	Location	Meeting Date	Attendees
Update on what happened since last meeting:			
Issues discussed this meeting:			
What to do until next meeting:			
Decisions made:			

2 Team Communication Plan

The team will primarily use the phone to communicate any issues, changes and progress made on the project. For minor announcements, there will be a Facebook group where we can schedule and confirm meeting times. If there is an important issue that has to do with the code or design of the project, we will be using git issues. When working on the reports, we will be using Google Docs to allow everyone to contribute at the same time and then the scribe will format them into latex for uploading.

3 Team Member Roles

Team Leader - Schedules meetings and delegates work to the other members as well as him/herself. Ideally, this member will make sure the git repo has no conflicts and looks clean.

Scribe - Will be in charge of writing meeting minutes as well as writing reports using Latex. This person ideally has experience using Latex.

Researcher - Will actively learn about the technology we will be implementing in our project. In our case, this will heavily focus on cryptography and documentation from the original product.

Programmer - All team members will play the role of the programmer as there will be a lot to code.

4 Git Workflow Plan

Branching Workflow

- master - branch to host our stable code
- develop - branch to develop our program
- each additional branch is used to implement specific parts of the program

Tags will be use when major milestones are reached or there is a major issue that needs attention.

Milestones will be used to divide our workload and allow the users to work in parallel.

5 Proof of Concept Demonstration Plan

5.1 Will implementation be difficult?

The hardest part of the program for us to implement is probably going to be integrating the database into our Python GUI program as our developers have not formally programed in MySQL. As we are currently taking a databases course, we will take advantage of those resources and ask the teaching assistants and instructor for clarification when needed.

5.2 Will testing be difficult?

Testing the encryption on our program may be difficult as we are not hackers and do not really have experience or knowledge in trying to break through encryptions. Therefore, we will mainly focus on testing the user interface. We will also be researching the Python cryptography library that we intend to use to ensure its credibility.

5.3 Is a required library difficult to install?

The required libraries should be easy to install with the python package manager pip.

5.4 Will portability be a concern?

Portability should not be a concern as long as all the dependencies are downloaded.

6 Technology

We will be using Python as the main language to create our application. Our main library to create the GUI is the Python library tkinter. The encryption

method we will use is provided by the python library cryptography. The primary IDE we will use is IDLE and the primary form of testing will be done on pyunit. Our documentation generation will be done with Doxygen and our reports will be written in latex. The database that will store the usernames and passwords will be MariaDB.

7 Coding Style

We are planning to following the Python coding style Python Coding Syle

8 Project Schedule

Gantt chart

9 Project Review