# Passman: The Terminal-Based Password Manager - Abstract

Sam Messina and Dan Jensen

April 9, 2017

## 1  Language

Passman will be written in Python 3. It will likely make use of a Python library to aid in generating the terminal user interface.

## 2  API Description

Passman will allow the user to perform all basic Create-Read-Update-Delete operations on passwords for different services. Passman will also create optimally-secure passwords for the user.

## 3  Similar Systems

There are many competitors to Passman already in existence. Passman will emulate the likes of LastPass, KeypassX, Enpass, etc. While all of these options will likely be more feature-full, Passman will have the advantage of being terminal-based making it ideal for users more comfortable with the command line.

We will be implementing features such as password generation, password update reminders, and ease of password access that are found in the already-available alternatives.

## 4  Responsibilities

Sam will be handling more of the menu design and user input side of things, including sanitizing inputs, error checking, UX/UI, etc.. Dan will be handling the "back end" of the application, including database calls and the saving process. We will both pair program the security aspects.

## 5  Testing

We will vet our hashing algorithms through standardized security testing suites. User interface testing will be done mostly manually.

## 6  Coding Standards

The code will be up to PEP-8 standards.