# Part A: Planning

The Scenario

My client is an internet user who uses many different web services requiring separate accounts and logins. He has trouble remembering different passwords for each account, so he has been using the same password for most websites. However, he has recently become worried that this could lead to all his accounts being compromised. He wants to increase security on his accounts, but he doesn’t want to remember many different passwords. Therefore, he wants to use an application that stores his passwords securely: a password manager. However, he doesn’t want to use an already existing password manager as he does not trust them to keep his passwords secure. Therefore, he asked me for advice.

I met with the client and consulted with him (a transcript is available in the Appendix). I suggested that I make him a password manager, to which he enthusiastically agreed. We decided on a list of tasks that the *Solution* should be able to do, which is shown in the Success Criteria below. The client specifically requested that the software have a user-friendly interface to enable him to use the password manager more easily.

The *Solution* is suitable for the client’s problem because it allows the client to have secure, alphanumeric passphrases with special characters (that are almost impossible to remember), but to only have to remember one passphrase.

**Success Criteria**

1. The program stores different passwords for different websites under secure encryption
2. The program has a user-friendly interface
3. The client can add new passwords for different websites
4. The client can delete passwords, but is prompted to confirm deleting so that a password doesn’t get deleted by accident
5. The client can edit passwords for already added websites
6. Each password has the date that it was last changed displayed next to it, so that the client knows when he should change it
7. The program can be used across multiple devices, and the passwords saved on one device will show up on the other
8. The client can create an account with an email and passphrase
9. The program has an inbuilt password generator