Pylint Results:

Text

Description automatically generated

R0911: Could be handled by having a single variable returned at the end rather than having many return statements at the end of each branch.

R0912: Could be handled by reducing the need for branches by splitting up the task to separate functions that give a result.

E1101: It could be confusing this with the pandas library somehow, because pandas does have these functions and I am not calling directly on to an instance of TextFileReader, but pandas might be.

Update-Password Form:

Here is the current login information

Graphical user interface, text, application, email

Description automatically generated

Now, this is what we’ll be changing the current password from and to:

Graphical user interface, text, website

Description automatically generated

Submission was successful:

Graphical user interface, text, application

Description automatically generated

Let’s check our csv…

BEFORE:



AFTER:



We can see above that the hash has changed under the user with [stoner@gmail.com](mailto:stoner@gmail.com). This was a successful overwrite of the data!

Test Cases Tables:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case: Update-Password Form | Input | Expected Output | Actual Output | Pass? |
| 1: proper usage | [stoner@gmail.com](mailto:stoner@gmail.com); Hell0World360!; !063dlroW0lleH; !063dlroW0lleH | Accept user input, overwrite user password hash in database | Accept user input, overwrite user password hash in database | Y |
| 2: Lack Email | None | Advise user to enter an email | Advise user to enter an email | Y |
| 3: Lack Current Password | [stoner@gmail.com](mailto:stoner@gmail.com) | Advice user to enter password | Advice user to enter password | Y |
| 4: Lack New Password | [stoner@gmail.com](mailto:stoner@gmail.com); Hell0World360! | Advice user to enter new password | Advice user to enter new password | Y |
| 5: Lack New Password Conform | [stoner@gmail.com](mailto:stoner@gmail.com); Hell0World360!;  !063dlroW0lleH | Advice user to enter new password confirmation | Advice user to enter new password confirmation | Y |
| 6: Incorrect Email | [hello@gmail.com](mailto:hello@gmail.com); Hell0World360!; !063dlroW0lleH; !063dlroW0lleH | Tell user that there is no user with that email registered | Tell user that there is no user with that email registered; logs guess | Y |
| 7: Incorrect Password | [stoner@gmail.com](mailto:stoner@gmail.com);  password; !063dlroW0lleH; !063dlroW0lleH | Tell user that the password is incorrect; log incorrect guess | Tells user that there is no user with that email; logs incorrect guess | Y |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case: Authentication with Common Passwords | Input | Expected Output | Actual Output | Pass? |
| 1: Common Password 1 | Hello; World; [hello@gmail.com](mailto:hello@gmail.com); password; password | Advise user to pick a different password on the basis that it is too common. | Advise user to pick a different password on the basis that it is too common. | Y |

Graphical user interface, application

Description automatically generated

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case: Logger, on login-page | Input | Expect Output | Actual Output | Pass? |
| 1: Incorrect Login | [stoner@gmail.com](mailto:stoner@gmail.com); password | Warn user that the password entered is not correct; log incorrect login to logger.csv | Warn user that the password entered is not correct; log incorrect login to logger.csv | Y |

A screenshot of a computer

Description automatically generated with medium confidence

Decrypting Secret Messages:

1. Morse Code

Graphical user interface, application

Description automatically generated

1. Base64

Graphical user interface, application

Description automatically generated

1. Caesar cipher (a -> o)

Graphical user interface, application

Description automatically generated