

werkzeug.security Library Report

Code Repository	https://github.com/rdstrach/CSE312_Group_Project
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Who worked with this?	Ryan Strachan
Source code library	https://github.com/pallets/werkzeug

Function Name: `generate_password_hash`

Purpose:

The purpose of this function is to store hashes of passwords. Used on lines 102,159.

General Description:

This function takes either 2 or 3 arguments[password, hash type and salt length]; By default the salt length is 16 given no only 2 arguments. This project only uses 2 arguments for `generate_password` and thus all passwords will have a default salt length of 16 associated with it. A salt is generated by using a secrets library, secrets library in which uses random processes from operating systems to generate random output. The set of random characters generated in salt is in the set of uppercase and lowercase letters as well as number 0 to 9, totaling 62 characters in the complete set. In which add 62^{15} possible salts. this set of character can be found in the variable `SALT_CHARS`

Function Name: check_password_hash

Is to check if the plain text can generate the hash value, this done by removing the salt and then hashing the plain text to check if they match.