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# **The General Quiz Documentation**

**William Neild**

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Listing 1: Calling a function

```
section.class.function(param1, param2, param3)
```



File: generalQuiz/security.py

### 1.1 Account

Listing 1: Validate Registration

```
validateReg(fname, lname, password, confpassword, age, year)
```

The Validate Registration function ensures that all of the details that have been entered are possible and safe to use. It checks whether:

- Your First Name is over three characters long
- Your First Name has any numbers in it
- Your Last Name has any numbers in it
- You Username which will be generated already exists
- Your Password is too short (under 6 chars) or too long (over 100 chars)
- Your Password and your Confirming Passwords match
- Age is an integer

If it finds that any of the above are true, it will append that error to an array and return that when its finished.

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Listing 2: Register

```
register(username, password, fname, lname, age, year)
```

The Register function is called after the validate register function. It calls the Hash function for the password then adds the user to the Database via the Add Class in the db file.

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Listing 3: login

```
login(username, password)
```

The login function takes the username and unhashed password from a user input, then grabs the hashed password from the DB using the username, calls the pskCheck function and then will return the userData if the password is correct or False if the Password is incorrect.

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## 1.2 Hash

Listing 4: Password

```
psk(password)
```

The psk function grabs the salt from the config file then Hashes the password using sha512 and the salt. Then it returns the Hashed password.

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Listing 5: Check Password

```
pskCheck(hashPassword, password)
```

The pskCheck hashes the password in the same way as the psk function, then it compares it to the hashedPassword; if it's a match, it returns True otherwise it returns False.



## CHAPTER 2

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Database

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## CHAPTER 3

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Menu

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# CHAPTER 4

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## User Interface

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