**Class: Validator**

This class handles validation for all the Activities that accept the user’s input in some form. It gets the most use when the user logs in or registers a new account, updates their profile information, and when the user creates a new trip.

At the moment, most of what this class does is ensure that none of the fields passed as parameters are empty, though regular expressions are used when checking usernames and passwords.

**Variables**

-regex: String – The String pattern that will be converted into a regular expression

-checkRegex: Pattern – Compiles and stores regex

-regexMatcher: Matcher – Actually runs the comparison between a String and the regex’s pattern.

-textInputEditText: TextInputEditText – Converts and stores passed Views into TextInputEditTexts.

**Methods**

+Validator

+checkUserName(v): Boolean

* Get the username InputEditText passed into “v,” store it’s text into a username String and trim it for white space, and check if the String is blank. Return false if the string is blank, and display an error message.

+checkPassword(v, context): Boolean

* The parameter “context” is a string I pass to tell this class whether the user is logging into their account, or registering a new account.
* The registration context “setpassword” uses a regular expression to ensure that the password contains special characters, numbers, and is at least 8 characters long.
* The login context simply ensures that the password is not blank.

+checkEmail(v): Boolean

* Ensures that the email field is not blank, and that the text is a proper email address.

+checkName(v):Boolean

* Ensures the name field is not blank, and also makes sure there are no special characters

+checkAddress(v): Boolean

* Simply ensures the address is not blank. I couldn’t find a proper regex to use for this because an address’s structure is somewhat subjective.

+checkZip(v): boolean

* Makes sure the zip field is not blank, and that it only contains numbers. It also checks to be sure that the zip code is no longer than five characters

+checkPhone(v): Boolean

* Checks if the phone field is blank, and is an actual phone number.

+checkCarValues(v): Boolean

* Applies to all fields in the Create A Car Activity. It simply ensures that no field is blank.

+checkRideValues(v): Boolean

* Applies to the text fields in the Create A Ride Activity. It simply ensures that no field is blank.