

Team 14 Method Contracts

Noah Rickles

Signature: isUsernameValid(username : String)

Precondition: The parameter, username, does not equal null.

Postcondition: The username is determined to either be valid or invalid, and the result is returned.

Invariant: The length of the username is ≥ 1 .

Frame Condition: The username and any other information about the user does not change.

Nikhil Ramesh

Signature: isPasswordValid(password : String)

Precondition: The password parameter is not null.

Postcondition: The method returns whether or not the password is valid.

Invariant: The length of the password is greater than or equal to 1.

Frame Condition: No information about the user changes after the method finishes.

James Lord

Signature: isEmailValid(email : String)

Precondition: The email parameter is not null

Postcondition: The method returns true if the email parameter is valid, false otherwise.

Invariant: The length of the email is ≥ 1 .

Frame Condition: User information remains unchanged.

Renner Brown

Signature: findWaterReportById(id : int)

Precondition: The id is not null.

Postcondition: The method returns the water report with the corresponding id, null otherwise.

Invariant: Id ≥ 0 .

Frame Condition: water report information remains unchanged.

Manoj Kandiakounder

Signature: isLocationValid(location : LatLng)

Precondition: The location parameter is not null.

Postcondition: The method returns whether or not the location is valid.

Invariant: The location is guaranteed to be one that can be rendered on the Google Map.

Frame Condition: User information is not modified within the scope of the method.