

M9 Method Contracts

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Github Link: <https://github.com/Team-73-Git-Gud/CS-2340-Software>

Chawalit Saetiew

Signature: parse(fileName : String) : void

Precondition: filename exists and is not null. The actual file should be properly formatted with the order, Unique Key, Shelter Name, Capacity, Restrictions, Longitude, Latitude, Address, Special Notes, Phone Number.

Postcondition: Shelters are created based on the parameters separated by commas. The number of shelters added equals the number of lines inside the file.

Invariant: shelters ArrayLists does not contain the created shelter.

Frame Condition: The shelter ArrayList storing shelters is altered. No other changes.

Conner Mathis

Signature: isValidCombination(String s, String t) : boolean

Precondition: s and t exist, and are not null.

Postcondition: true if the password, s, is in the database, and has the corresponding username , t, with it in that user in the database.

Invariant: there is an arraylist named permanence that holds all of the user data in it.

Frame Condition: The user information does not change and no new users are added.

Zachary Waters

Signature: search(ArrayList<Shelter> list, String nameField, String genderField, String ageField): void

Precondition: ArrayList results exists.

Postcondition: ArrayList results will now contain a modified selection of the list array after applying the search parameters to it.

Invariant: there is an arraylist named results that holds all the shelter data.

Frame Condition: The original list of shelters is not modified in any way, instead the arraylist results will be modified.

Kenedy Thorne - reserveFamily()**Operation Signature:**

+reserveFamily(amount: int) : void

Preconditions:

-The amount cannot be equal to 0 or null.

Postconditions:

-It updates the size familyArray (Spinner Array). Family modifies the size or reservation available.

Invariant:

-There always will be a number greater or less than 0 in the family passed (to add/remove).

Frame Condition:

-It changes the size of the Spinner options to fit the size of the family passed through.

Collin Avidano - reserveIndividual()

Signature: reserveIndividual(amount : int) : void

Precondition: The parameter int amount, does not equal null

Postcondition: The individualArray used in the individualSpinner is updated. Individual is modified to the new available reservation size

Invariant: this.individual can never be less than zero ($\text{this.individual} \geq 0$)

Frame Condition: The family array size is changed to fit the size of the individualSpinner.