

RateMyPlace

Software Engineering CS4320
<https://github.com/Djhyv2/RateMyPlace.git>

Group 13: Connor Fitzmaurice, Dustin Hengel, Mercy Housh,
Madison Williams, Bradley Worthen

Class	Type/Signature	Description
List: List's main goal to is to form lists of information to display.	-targets: string[]	The review ids or complex names associated with the selected list elements.
	+listType: string	The type of list to be displayed. Will either be "UserReviews", "AllReviews", "AllComplexes", or "ComplexReviews"
	+listed: string	The userID or complex name associated with the current listType
	-GenerateList()	Will generate and display the list based on current listType and listed.
	-ViewTarget(targets: string[])	Will redirect to the view page and will pass the current selection to set what will be viewed.
	-CompareTargets(targets: string[])	Will redirect to the compare page and will pass the current selection to set what will be compared.
	-ListTarget(targets: string[])	Will redirect to the list page and will pass the current selection to set what will be listed.
Compare: Compare's main goal is to compare multiple pieces of information.	-target: string	The review id or complex name associated with the selected compared.
	+compareType: string	The type of item to be compared. Will either be "Complexes" or "Reviews"
	+compared: string	The review IDs or complex names associated with the current compareType

	-GenerateCompare()	Will generate and display the compared items based on current compareType and compared.
	-ViewTarget(target: string)	Will redirect to the view page and will pass the current selection to set what will be viewed.
View: View's main goal is to display a single piece of information.	+viewType: string	The type of item being viewed, will either be, "Complex" or "Review"
	+viewed: string	The review ID or complex name of the item being viewed.
	-GenerateView()	Will generate and display the currently viewed item based on current viewType and viewed.
Layout: Layout's main goal is to provide an overarching user interface and fluid transitions between functions of the system.	+username: string	The username of the currently logged in user, if applicable
	-Logout()	Logs out the current user specified in username
	-AddReview()	Initiates the add review process, redirects to ManageReview.
	-ViewReview()	Initiates the view review process, redirects to List.
	-ViewComplex()	Initiates the view complex process, redirects to List.
	-CompareReview()	Initiates the compare review process, redirects to List.
	-CompareComplex()	Initiates the compare complex process, redirects to List.
	-UserProfile()	Initiates the process to view current users reviews, redirects to list.
Manage Review:	-overallRating: int	All of these variables come from the form displayed to add or edit a review. They represent basic attributes about the housing complex being reviewed. Their names should be self explanatory when
	-noise: int	
ManageReview's main	-safety: int	

goal is to add, update, and delete reviews. It performs the majority of the non select calls to the review storage.	-maintenance: int	viewed in the context of reviewing a housing complex.
	-leaseStartDate: Date	
	-leaseEndDate: Date	
	-campusDistance: float	
	-pros: string	
	-cons: string	
	-studySpace: bool	
	-shuttle: bool	
	-wifi: bool	
	-furnished: bool	
	-tv: bool	
	-trashService: bool	
	-gym: bool	
	-parking: bool	
	-parkingFee: float	
	-pets: bool	
	-petsFee: float	
	-miscFee: float	
	-rent: float	
	-utilities: float	
	-housingComplex: string	
	+isAdd: bool	Indicates whether the form is being displayed to add or edit a review
	+reviewID: int	The id of the review being edited if applicable.
	+username: string	The current logged in user if applicable

	-AddReview()	Adds the review currently in the displayed form to the database.
	-UpdateReview()	Updates the database entry for the form currently being displayed.
	-DeleteReview()	Deletes the database entry for the form currently being displayed.
Login: Login's main goal is to provide functionality for logging into or registering to the software.	+username: string	The username of the person attempting to or who has successfully logged in.
	-password: string	The password of the person attempting to login.
	+isLogin: bool	Indicates whether a user is logging in or registering.
	-Login()	Attempts to login a user based on the credentials in the displayed form and checks them with the database.
	-Register()	Attempts to create a database entry for the user trying to register.
Connection: Connection's main goal is to provide a central point for all database calls to originate from.	-databaseConnection: string	The string used to connect to the database
	+RunSQL(sql: string, parameters: SQLParameters[]): DataTable	Executes SQL from the passed in string and parameters, returns the selected datatable from the database.
	+RunNonQuerySQL(sql: string, parameters: SQLParameters[]): int	Executes SQL from the passed in string and parameters. Used for non-select statements. Returns the amount of rows affected.

All functions without a stated return type are assumed to return null or void and all functions without arguments are assumed to take none. This was done to ease readability and avoid redundancy in repeating this. The vast majority of functions will work using the values stored in their public attributes, rather than in local parameters passed to them.