Gas Station

createGasStation(address, gasStationName, fuelType, rating,price) : gasStation

Create gasStation object using constructor GasStation()

Set address to address.

Set gas station name to gasStationName.

Set fuel type to fuelType.

Get rating from giveRating().

Set price to price.

deleteGasStation()

Delete gas station object and the information related to it.

giveRating(rating)

setRating()

getRating()

Return rating.

NearbyGasStations

NearbyGasStations(zipcode, radius)
Set zipCode to a zipCode. (this.zipcode = zipCode)
Set radius to radius. (this.radius = radius)
This.gasStations = []

getZipCode()
return zipCode

getRadius()
return radius

setRadius()
set radius to radius. (this.radius = radius)

getGasStations()
return this.gasStations

searchGasStations(gasStations)
if (gas station is within radius)
        this.gasStation.add(gasStation)
else
        this.gasStation()

displayGasStations()
if this.gasStations.isEmpty
        "no gas stations found within radius"
Else
        "the gas stations within the radius of" zipCode " are…."

# Reviews
gasStation(gasStationName)
set gas station name to gasStationName (this.gasStationName = gasStationName)
set reviews to an array (reviews = reviews[])

getGasStationName()
return gasStationName

setGasStationName(name)
set gas station name to name (this.gasStationName = name)

getReviews()
return reviews

setReviews(reviews)
set reviews to reviews (this.reviews = reviews)

addReview()
this.reviews.add(reviews)

# Directions
Directions(start, destination, gasStation)
Set start to start. (this.start = start)
Set destination to destination (this.destination = destination)
Set gasStation to gasStation (this.gasStation = gasStation.

setStart(start)
Set start to start. (this.start = start)

getStart()
return this.start

setDestination(destination)
Set destination to destination (this.destination = destination)

getDestination()
return this.destination

setGasStation(gasStation)
Set gasStation to gasStation (this.gasStation = gasStation.

getGasStation()
return this.gasStation

getDirections()
return "Directions are from the starting location" + this.start + to + this.destination + "are …"

displayMap()
// map is displayed here

filterMapByPrice(price)
returns the map filtered by price

filterMapByDistance(distance)
returns the map filtered by distance

filtgerMapByRating(rating)
returns the map filtered by rating

# UserAccount
UserAccount(firstName, lastName, userName, email, password)
Set firstName to firstName. (this.firstName = firstName)
Set lastName to lastName. (this.lastName = lastName)
Set userName to userName. (this.userName = userName)
Set email to email. (this.email = email)
Set password to password. (this.password = password)

setFirstName(firstname)
Set firstName to firstName. (this.firstName = firstName)

getFirstName()
return firstName

setLastName(lastName)

Set lastName to lastName. (this.lastName = lastName)

getLastName()
return lastName

setUserName(userName)
Set userName to userName. (this.userName = userName)

getUserName()
return UserName

setEmail()
Set email to email. (this.email = email)

getEmail()
return email

setPassword()
Set password to password. (this.password = password)
getPassword()
return password

toString()
return "User Account" + this.userName

+createUserAccount()
User account is created when information is provided

+deleteUserAccount()
Deletes information related to the account

# MPGTracker
MPGTracker(gallonsUsed, milesDriven)
Set gallonsUsed to gallonsUsed (this.gallonsUsed = gallonsUsed)
Set milesDriven to milesDrive(this.milesDriven = milesDriven)

setGallonsUsed(gallonsUsed)
Set gallonsUsed to gallonsUsed (this.gallonsUsed = gallonsUsed)

getGallonsUsed()
return gallonsUsed

setMilesDriven(milesDriven)

setMilesDriven to milesDriven(this.milesDriven = milesDriven)

getMilesDriven()
return milesDriven

setFuelType()
set fueltype to fuelType. (this.fuelType = fuelType)

get fuelType()
return fuelType

getMPG()
milesDriven/gallonsUsed = fuelEconomy

# Notifications
Notifications(message, sender, recipient, timeSent)
Set message to message. (this.message = message)
Set sender to sender. (this.sender = sender)
Set recipient to recipient. (this.recipient = recipient)
Set timesent to timeSent. (this.timeSent = timeSent)

setMessage()
Set message to message. (this.message = message)

getMessage()
return message

setSender()
Set sender to sender. (this.sender = sender)
getSender()
return sender

setRecipient()
Set recipient to recipient. (this.recipient = recipient)

getRecipient()
return recipient

setTimeSent()
Set timesent to timeSent. (this.timeSent = timeSent)

getTimeSent()
return TimeSent