PHP/MySQL API

Generated by Doxygen 1.8.11

Contents

1 Hierarchical Index **1**

1.1 Class Hierarchy 1

2 Data Structure Index **3**

2.1 Data Structures 3

3 Data Structure Documentation **5**

3.1 Common Class Reference 5

3.1.1 Detailed Description 5

3.1.2 Member Function Documentation 5

3.1.2.1 Common($debug) 5

3.1.2.2 connect($db) 6

3.1.2.3 executeQuery($sql, $filename) 6

3.2 CommonInterface Interface Reference 6

3.2.1 Detailed Description 7

3.3 DBAPI Class Reference 7

3.3.1 Detailed Description 7

3.3.2 Constructor & Destructor Documentation 7

3.3.2.1 __construct($db) 7

3.3.2.2 __destruct() 8

3.3.3 Member Function Documentation 8

3.3.3.1 getCurrentDayTraffic() 8

3.3.3.2 getCurrentMonthTraffic() 8

3.3.3.3 getCurrentYearTraffic() 8

3.3.3.4 getNumWalkersThisWeek() . . . 9
3.3.3.5 getNumWalkersToday() . . . 9
3.3.3.6 getTotalNumWalkers() . . . 9
3.3.3.7 getTrafficByDay($year, $month, $day) . . . 9
3.3.3.8 getTrafficByMonth($year, $month) . . . 9
3.3.3.9 getTrafficByYear($year) . . . 10
3.3.3.10 getTrafficTimeRange($year1, $month1, $day1, $year2, $month2, $day2) . . . 10
3.3.3.11 printEntireDB() . . . 11
3.4 DBInterface Interface Reference . . . 11
3.4.1 Detailed Description . . . 11
3.4.2 Constructor & Destructor Documentation . . . 11
3.4.2.1 __construct($db) . . . 11
3.4.3 Member Function Documentation . . . 12
3.4.3.1 getCurrentDayTraffic() . . . 12
3.4.3.2 getCurrentMonthTraffic() . . . 12
3.4.3.3 getCurrentYearTraffic() . . . 12
3.4.3.4 getNumWalkersThisWeek() . . . 12
3.4.3.5 getNumWalkersToday() . . . 13
3.4.3.6 getTotalNumWalkers() . . . 13
3.4.3.7 getTrafficByDay($year, $month, $day) . . . 13
3.4.3.8 getTrafficByMonth($year, $month) . . . 13
3.4.3.9 getTrafficByYear($year) . . . 14
3.4.3.10 getTrafficTimeRange($year1, $month1, $day1, $year2, $month2, $day2) . . . 14

Index **15**

Chapter 1

Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

CommonInterface 6
Common 5
DBInterface 11
DBAPI 7

Chapter 2

Data Structure Index

2.1 Data Structures

Here are the data structures with brief descriptions:

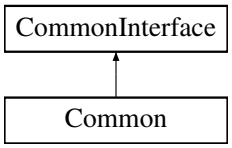
Common 5
CommonInterface 6
DBAPI 7
DBInterface 11

Chapter 3

Data Structure Documentation

3.1 Common Class Reference

Inheritance diagram for Common:



Public Member Functions

- **Common** ($debug)
- **connect** ($db)
- **executeQuery** ($sql, $filename)

Data Fields

- **$conn**
- **$debug**
- **$db** ="database.cse.tamu.edu"
- **$dbname** ="jgwesterfield-WalkerData"
- **$user** ="jgwesterfield"
- **$pass** ="Whoop19!"

3.1.1 Detailed Description

Created by PhpStorm. User: JonathanWesterfield Date: 2/8/18 Time: 4:20 PM

Common (p. 5) is responsible for actually connecting to the MySQL database. The **Common** (p. 5) class object must be created and the **connect()** (p. 6) function run before any functions on the database can be performed.

3.1.2 Member Function Documentation

3.1.2.1 Common (*$debug*)

Common (p. 5) constructor.

Parameters

$debug	The constructor for the **Common** (p. 5) class

Implements **CommonInterface** (p. 6).

3.1.2.2 connect (*$db*)

Parameters

$db	Uses the class member functions to actually make the connection to the database

Implements **CommonInterface** (p. 6).

3.1.2.3 executeQuery (*$sql, $filename*)

Parameters

$sql	
$filename	

Returns

mixed

Uses the sql statement that is passed in and executes the query

Example Code: $sql = "SELECT COUNT(WalkerNumber) FROM WalkerData"; $rs = $this->COMMO↩ N->executeQuery($sql, $_SERVER["SCRIPT_NAME"]); $row = $rs->fetch(PDO::FETCH_ASSOC); return (int)$row['COUNT(WalkerNumber)'];

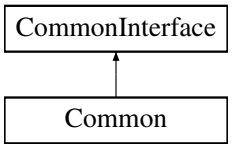
Implements **CommonInterface** (p. 6).

The documentation for this class was generated from the following file:

- PHP:Mysql API/CommonMethods.php

3.2 CommonInterface Interface Reference

Inheritance diagram for CommonInterface:



Public Member Functions

- **Common** ($debug)
- **connect** ($db)
- **executeQuery** ($sql, $filename)

3.2.1 Detailed Description

Created by PhpStorm. User: JonathanWesterfield Date: 2/8/18 Time: 4:31 PM

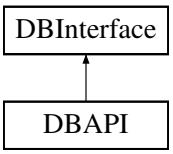
This is an interface for **Common** (p. 5).

The documentation for this interface was generated from the following file:

- PHP:Mysql API/CommonInterface.php

3.3 DBAPI Class Reference

Inheritance diagram for DBAPI:



Public Member Functions

- **__construct** ($db)
- **__destruct** ()
- **printEntireDB** ()
- **getTotalNumWalkers** ()
- **getNumWalkersToday** ()
- **getNumWalkersThisWeek** ()
- **getCurrentYearTraffic** ()
- **getTrafficByYear** ($year)
- **getCurrentMonthTraffic** ()
- **getTrafficByMonth** ($year, $month)
- **getCurrentDayTraffic** ()
- **getTrafficByDay** ($year, $month, $day)
- **getTrafficTimeRange** ($year1, $month1, $day1, $year2, $month2, $day2)

3.3.1 Detailed Description

Created by PhpStorm. User: JonathanWesterfield Date: 2/8/18 Time: 4:35 PM

Includes the various functions that can be used in order to extract useful information from the database. Implements DBInterface.php

3.3.2 Constructor & Destructor Documentation

3.3.2.1 __construct (*$db*)

DBAPI (p. 7) constructor.

Parameters

$db	Mostly sets up the dates in this object. Also sets the timezone to our timezone.

Implements **DBInterface** (p. 11).

3.3.2.2 __destruct ( )

Class destructor

Implements **DBInterface** (p. 11).

3.3.3 Member Function Documentation

3.3.3.1 getCurrentDayTraffic ( )

Returns

array

Gets the number of people for every hour and returns a length 24 array output the times to see if I overshot how many times to iterate

Implements **DBInterface** (p. 12).

3.3.3.2 getCurrentMonthTraffic ( )

Returns

array

Gets the traffic numbers for each day during the current month.

Implements **DBInterface** (p. 12).

3.3.3.3 getCurrentYearTraffic ( )

Returns

array

Returns an array of the traffic numbers for each month in a 12 element array

Implements **DBInterface** (p. 12).

3.3.3.4 getNumWalkersThisWeek ( )

Returns

int

Gets the number of walkers in the last week starting from today

Implements **DBInterface** (p. 12).

3.3.3.5 getNumWalkersToday ( )

Returns

int

Gets the number of walkers from Today

Implements **DBInterface** (p. 13).

3.3.3.6 getTotalNumWalkers ( )

Returns

int

Gets the total number of walkers in the table

Implements **DBInterface** (p. 13).

3.3.3.7 getTrafficByDay (*$year, $month, $day*)

Parameters

$year	
$month	
$day	

Returns

array

Gets the traffic for each hour and returns it in a 24 element array.

Usage: <var = getTrafficByDay(2018, 2, 15);> for Febraury 15, 2018 output the times to see if I overshot how many times to iterate

Implements **DBInterface** (p. 13).

3.3.3.8 getTrafficByMonth (*$year, $month*)

Parameters

$year	
$month	

Returns

array

Gets the traffic for each day during the specified month of the specified year

Usage: getTrafficByMonth(2018, 2); // for February 2018

Implements **DBInterface** (p. 13).

3.3.3.9 getTrafficByYear (*$year*)

Parameters

$year	

Returns

array

Gives the traffic for each month in an array for the specified year passed in

Implements **DBInterface** (p. 14).

3.3.3.10 getTrafficTimeRange (*$year1, $month1, $day1, $year2, $month2, $day2*)

Parameters

$year1	
$month1	
$day1	
$year2	
$month2	
$day2	

Returns

int

Takes in a date range (start and end date) and counts the number of walkers in the given range

Implements **DBInterface** (p. 14).

3.3.3.11 printEntireDB ( )

Prints out a table of the entire database

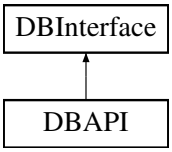
Implements **DBInterface** (p. 11).

The documentation for this class was generated from the following file:

- PHP:Mysql API/DBAPI.php

3.4 DBInterface Interface Reference

Inheritance diagram for DBInterface:



Public Member Functions

- **__construct** ($db)
- **printEntireDB** ()
- **getTotalNumWalkers** ()
- **getNumWalkersToday** ()
- **getNumWalkersThisWeek** ()
- **getCurrentYearTraffic** ()
- **getTrafficByYear** ($year)
- **getCurrentMonthTraffic** ()
- **getTrafficByMonth** ($year, $month)
- **getCurrentDayTraffic** ()
- **getTrafficByDay** ($year, $month, $day)
- **getTrafficTimeRange** ($year1, $month1, $day1, $year2, $month2, $day2)

3.4.1 Detailed Description

Created by PhpStorm. User: JonathanWesterfield Date: 2/8/18 Time: 4:36 PM

3.4.2 Constructor & Destructor Documentation

3.4.2.1 __construct (*$db*)

DBAPI (p. 7) constructor.

Parameters

$db	Mostly sets up the dates in this object. Also sets the timezone to our timezone.

Implemented in **DBAPI** (p. 7).

3.4.3 Member Function Documentation

3.4.3.1 getCurrentDayTraffic ( )

Returns

array

Returns a length 24 array containing total number of walkers for each hour for the current day

Implemented in **DBAPI** (p. 8).

3.4.3.2 getCurrentMonthTraffic ( )

Returns

array

Returns an array containing total number of walkers for each day for the current month

Implemented in **DBAPI** (p. 8).

3.4.3.3 getCurrentYearTraffic ( )

Returns

array

Returns an array containing total number of walkers for each month for the current year 12 Element Array

Implemented in **DBAPI** (p. 8).

3.4.3.4 getNumWalkersThisWeek ( )

Returns

int

Returns the number of walkers from the start to the end of the week

Implemented in **DBAPI** (p. 9).

3.4.3.5 getNumWalkersToday ( )

Returns

int

Returns the number of walkers that walked through from the start to the end of the day

Implemented in **DBAPI** (p. 9).

3.4.3.6 getTotalNumWalkers ( )

Returns

int

Returns the total number of walkers in the table

Implemented in **DBAPI** (p. 9).

3.4.3.7 getTrafficByDay (*$year, $month, $day*)

Parameters

$year	
$month	
$day	

Returns

array

Returns an array (24) containing total number of walkers for each hour

Usage: <var = getTrafficByDay(2018, 2, 15);> for Febraury 15, 2018

Implemented in **DBAPI** (p. 9).

3.4.3.8 getTrafficByMonth (*$year, $month*)

Parameters

$year	
$month	

Returns

array

Gets the traffic for each day during the specified month of the specified year

Usage: getTrafficByMonth(2018, 2); // for February 2018

Implemented in **DBAPI** (p. 9).

3.4.3.9 getTrafficByYear (*$year*)

Parameters

$year	

Returns

array

Gives the traffic for each month in an array for the specified year passed in

Implemented in **DBAPI** (p. 10).

3.4.3.10 getTrafficTimeRange (*$year1, $month1, $day1, $year2, $month2, $day2*)

Parameters

$year1	
$month1	
$day1	
$year2	
$month2	
$day2	

Returns

int

Takes in a date range (start and end date) and counts the number of walkers in the given range

Implemented in **DBAPI** (p. 10).

The documentation for this interface was generated from the following file:

- PHP:Mysql API/DBInterface.php

Index

__construct
    DBAPI, 7
    DBInterface, 11
__destruct
    DBAPI, 8

Common, 5
    Common, 5
    connect, 6
    executeQuery, 6
CommonInterface, 6
connect
    Common, 6

DBAPI, 7
    __construct, 7
    __destruct, 8
    getCurrentDayTraffic, 8
    getCurrentMonthTraffic, 8
    getCurrentYearTraffic, 8
    getNumWalkersThisWeek, 8
    getNumWalkersToday, 9
    getTotalNumWalkers, 9
    getTrafficByDay, 9
    getTrafficByMonth, 9
    getTrafficByYear, 10
    getTrafficTimeRange, 10
    printEntireDB, 10
DBInterface, 11
    __construct, 11
    getCurrentDayTraffic, 12
    getCurrentMonthTraffic, 12
    getCurrentYearTraffic, 12
    getNumWalkersThisWeek, 12
    getNumWalkersToday, 12
    getTotalNumWalkers, 13
    getTrafficByDay, 13
    getTrafficByMonth, 13
    getTrafficByYear, 14
    getTrafficTimeRange, 14

executeQuery
    Common, 6

getCurrentDayTraffic
    DBAPI, 8
    DBInterface, 12
getCurrentMonthTraffic
    DBAPI, 8
    DBInterface, 12
getCurrentYearTraffic
    DBAPI, 8
    DBInterface, 12
getNumWalkersThisWeek
    DBAPI, 8
    DBInterface, 12
getNumWalkersToday
    DBAPI, 9
    DBInterface, 12
getTotalNumWalkers
    DBAPI, 9
    DBInterface, 13
getTrafficByDay
    DBAPI, 9
    DBInterface, 13
getTrafficByMonth
    DBAPI, 9
    DBInterface, 13
getTrafficByYear
    DBAPI, 10
    DBInterface, 14
getTrafficTimeRange
    DBAPI, 10
    DBInterface, 14

printEntireDB
    DBAPI, 10