**PHP to Database API**

This API is a .php file titled PHPQueries.php that will need to be included in any web server file that you wish to use it with. In an .php file, this can be done with the command

<?php include 'PHPQueries.php'; ?>

Included in this file are several functions that can be used to obtain data from the WalkingCounterDatabase used to hold the records of each person counted. Though the first two functions are directly utilizing the googleCharts API. This file also requires that the file CommonMethods.php be included in the web server file directory and filled out with the correct login details to access the WalkingCounterDatabase.

List of functions included:

getHourTotal()

This function loops through the 24 hours in a day and keeps track of all entries entered during each of those hours. By totaling up each of the entries, we can find the popularity of each hour. The output data is formatted for use in the googleCharts API. In the drawChart() method for the graphing the hour information, after adding two columns including the line

<?php getHourTotal(); ?>

will correctly input the data into the chart.

getPastWeekTotal()

This function loops through the last week (from Saturday 2 weeks previous to the next one) gathering the counts for each day in between. This forms a short term glance at the counters activity. Similarly to the previous function the output data is formatted for use in the googleCharts API. In the drawChart() for drawing the past week information, after adding two columns including the line

<?php getPastWeekTotal(); ?>

will correctly input the data into the chart.

getAverages()

This function will return the average count of people for different durations of time in an array. This includes average per hour, day, week, month, and year respectively. You can call this function and access the array values returned with typical array accessing. For example

<?php aver = getAverages(); ?>

aver[0] will return the hourly average

getAllCounts()

This function will return the count of people for previous durations of time in an array. This includes the past hour, day, week, month, and year respectively. You can call this function and access the array values returned with typical array accessing. For example

<?php tot = getAllCounts(); ?>

tot[4] will return the count of people in the last year

getCount($date)

This function returns the count of entries for any specific date. The date must be entered in YY-MM-DD format.

getTotalOverPeriod($startDate, $startTime, $endDate, $endTime)

This function return the number of entries counted from any date and time to any date and time. The date must be in YY-MM-DD and the time in HH:MM:SS.

getTotalRows()

This function return the total count of entries ever recorded in the database.