PHP/MySQL API

Actions.php

**-Increment(Boolean)**

Increment the foot traffic count of an individual entering or exiting. Takes one parameter of Boolean type

that represents entering (true), or exiting (false) respectively. Default true on empty parameter.

**-ResetDb()**

Deletes all foot traffic data from database and resets auto increment.

-**GetAllCounts()**

Returns the number of items labeled as entering or leaving within the table.

**-AnalzeQuery(String)**

Processes given SQL query passed as a string parameter, to return the given SUM, AVG, MIN, MAX for a given time interval for entering and leaving counts.

**-GetHourData(String)**

Passes given hour to AnaylzeQuery to return the given SUM, AVG, MIN, MAX for the specific time interval.

**-GetDayData(String)**

Passes given day to AnaylzeQuery to return the given SUM, AVG, MIN, MAX for the specific time interval.

**-GetWeekData(String)**

Passes given week to AnaylzeQuery to return the given SUM, AVG, MIN, MAX for the specific time interval.

**-GetMonthData(String)**

Passes given month to AnaylzeQuery to return the given SUM, AVG, MIN, MAX for the specific time interval.

**-CalculateMode(integer array)**

Calculates and returns the mode of the given integer array.

**-CalculateMedian(integer array)**

Calculates and returns the median of the given integer array.

Partials.php

**-HtmlHeader(String)**

Dynamically sets html header of every webpage based on given page title, imports necessary javascript/CSS/Google chart utilities.

**-HtmlNavbar(String)**

Based on string parameter displays the relative CSS to highlight the current page on the navigation bar, also handles all functionality of the navigation bar.

**-StandardChartForm()**

Prints standard chart form to allow specification of given time interval.

**-AnalysisTable()**

Prints standard table of Mean, Median, Mode, Max, Min, and Count for the specified given time interval.

Main.js

**-LoadGraph(integer array, function formatDate)**

Creates graph based on the array of data received from database broken into time intervals, formatDate

edits the axis of the graph to represent the specified interval relative to the array.

3rd-Party Code disclosure

<https://momentjs.com/> - Used for formatting date

<https://developers.google.com/chart/> - Used to create visual charts

<https://getbootstrap.com/docs/4.0/getting-started/introduction/> - Used to create basic CSS headers/drop down navigation