DESIGN: Alert Widget and Pages

This document covers wordpress support for VDAB alerts which consists of the following componenents:

|  |  |
| --- | --- |
| Alert Widget | Includes a list of a configurable number of alerts. Clicking on an expansion icon provides additional alert details within the widget. Clicking on alert summary itself brings up an Alert detail page for the alert. |
| Alert Detail Page | Displays all of the alert details including a map showing the location of the alert. |
| Alert Search/List Page | Display a scrollable list of all alerts which includes the full date, source and summary of the alert. Clicking on the alert in the list brings up the detail page. |

## Alert Widget Requirements

The Alert Widget is an installable Wordpress widget that can display a list of VDAB alerts.It should be packaged so it can be added as an independent plugin.

* The Widget should be packaged as a plugin that can be installed on a number of Wordpress themes.
* The code that displays the actual alert information should be in a separate PHP function which takes an Alert as an argument.
* The Widget should only display unique Alerts. Alerts with the same information should be dropped.
* The Widget should support the configuration of the **number of alerts**. This represents the number of unique alerts to display.
* The Widget should be in a scrollable area that is limited to a specific part of the widget screen.
* When the alert is clicked on it should go to **Alert Detail page** for that alert.
* The number of lines of code should be minimized and optimal.
* The code should be commented to ensure that someone with PHP coding skills can alter and enhance the implementation.
* A separate CSS (vdablaert.css) should be provided with the plugin.

## Completion Points

|  |  |
| --- | --- |
| Points | Criteria for earning points. |
| 1 | Alerts scroll within the allocated area of the widget |
| 1 | Alerts include a configurable date heading (HH:MM:SS etc.) |
| 1 | Clicking on the Alert info goes the URL defined in the AlertDetailURL |
| 1 | All display features can be adjusted using an vdab\_alertwidget.css |
| 1 | Clicking on the Alert expand/contract icon causes the details to be inserted or removed. |
| 2 | Code Cleanup and refactoring based on requirement changes during final code review. |
| 7 | TOTAL |

## Alert Widget Configurable Parameters

|  |  |  |
| --- | --- | --- |
| Title | String | The title of the widget which will be displayed on top of the widget |
| AlertDataURL | String | The URL of the flow that provides the Alert data. |
| DisplayRows | Integer | The number of unexpanded alerts that should be displayed in the widget.  (ALL alerts should be available and accessed by scrolling within the widget areas. After an alert is expanded fewer will be displayed.) |
| DateFormat | String | Format to use for the data column |
| AlertDisplayURL | String | The URL that will display the alert detail |
|  |  |  |

## Alert Widget Data

The following is a sample of the JSON data that is returned from get\_Alerts VDAB flow:

{

"Group": {

"Alert": {

"Category": "Application",

"Severity": "3",

"Info": "Flooding at UPPER RIVER ROUGE AT FARMINGTON MI",

"Summary": "Flooding at UPPER RIVER ROUGE AT FARMINGTON MI",

"Detail": " USGSData.percentile: 98.39 | USGSData.huc\_cd: 04090004 | USGSData.flow: 59.8 | USGSData.stage: 3.55 | USGSData.url: https://waterdata.usgs.gov/mi/nwis/uv?site\_no=04166300 | USGSData.station\_nm: UPPER RIVER ROUGE AT FARMINGTON MI",

"Source": "AlertTarget(126)",

"FlowURL": "http://watershed.gldw.org:80/vdab?id=35",

"InterventionURL": "http://watershed.gldw.org:80/vdab?id=6",

"ContainerURL": "http://watershed.gldw.org:80/vdab",

"EventTime": "07-05-2019 13:35:14",

"Container": "null",

"Path": "AlertTarget(126)",

"Label": "Alert",

"Latitude": "42.4645",

"Longitude": "-83.3697"

},

"Alert": {

"Category": "Application",

"Severity": "3",

"Info": "Flooding at SOUTH BRANCH TOBACCO RIVER NEAR BEAVERTON MI",

"Summary": "Flooding at SOUTH BRANCH TOBACCO RIVER NEAR BEAVERTON MI",

"Detail": " USGSData.percentile: 96.97 | USGSData.huc\_cd: 04080201 | USGSData.flow: 117 | USGSData.stage: 4.99 | USGSData.url: https://waterdata.usgs.gov/mi/nwis/uv?site\_no=04152238 | USGSData.station\_nm: SOUTH BRANCH TOBACCO RIVER NEAR BEAVERTON MI",

"Source": "AlertTarget(126)",

"FlowURL": "http://watershed.gldw.org:80/vdab?id=35",

"InterventionURL": "http://watershed.gldw.org:80/vdab?id=5",

"ContainerURL": "http://watershed.gldw.org:80/vdab",

"EventTime": "07-05-2019 13:35:14",

"Container": "null",

"Path": "AlertTarget(126)",

"Label": "Alert",

"Latitude": "43.867",

"Longitude": "-84.5453"

},

}

}

## Alert Widget - Initial Appearance

> **13:05** Flooding at UPPER RIVER ROUGE AT

FARMINGTON MI

> **11:05** Flooding at SOUTH BRANCH TOBACCO

RIVER NEAR BEAVERTON MI

> **09:45** Buoy4327: The dissolved O2 at this

buoy is too low

> **08:45** Flooding at SOUTH BRANCH TOBACCO

RIVER NEAR BEAVERTON MI

## Alert Widget – After clicking on Expansion Icon for Alert

V **13:05** Flooding at UPPER RIVER ROUGE AT

FARMINGTON MI

**Source:** CheckFlow

**Categrory:** Environmental

**Severity:** Informational

> **11:05** Flooding at SOUTH BRANCH TOBACCO

RIVER NEAR BEAVERTON MI

> **09:45** Buoy4327: The dissolved O2 at this

buoy is too low

> **08:45** Flooding at SOUTH BRANCH TOBACCO

RIVER NEAR BEAVERTON MI

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## Alert Widget – Alert Clickable Areas

The Alert Widget will respond to two types of clicking in different ways

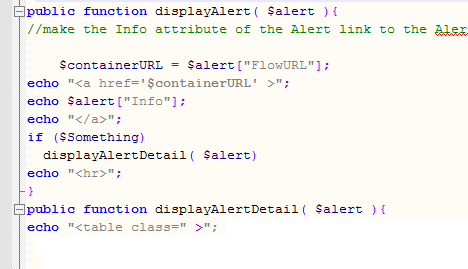
D

Add division

<div class=”vdabalert\_table”>

TABLE HTML HERE.

</div>



## Code Review (6/27/19) Refactoring

|  |  |  |
| --- | --- | --- |
| Change filename | Filename should be **vdabalert\_plugin.ph** | **done** |
| **displayAlert** | **Modify to do one alert in this function** |  |
| **Create fixupJSON routine** | **Create a separate subfunction to clean up the JSON** |  |
| **Create removeDuplicateAlerts** |  |  |