Arquitetura e Desenvolvimento de Dashboards cTools com o uso do RequireJS

https://github.com/fernandommota/dashboard

Pentaho Server

- Prerequisits:
  - Sparkl/App Builder;
  - Community Dashboard Framework (CDF);
  - Community Dashboard Editor (CDE);
  - Community Data Access (CDA);
- Download from:
  - `https://github.com/pentaho/marketplace-`metadata/blob/master/marketplace.xml.

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Pentaho Server

- Download the demo demo plugin:
  - https://github.com/fernandommota/dashboard

Sparkl / App Builder

- Concept:

  - http://pedroalves-bi.blogspot.com/2013/10/sparkl-pentaho-application-builder.html

- Main page:

  - https://community.hitachivantara.com/docs/DOC-1009869-app-builder

- GitHub page:

  - https://github.com/webdetails/sparkl

- Endpoints documentation

  - https://github.com/webdetails/cpk/blob/master/README.md#kettle-endpoints

Plugin as a APP

- Install by marketplace;

- Easy file versioning;

- Integration with Kettle/PDI transformations (endpoints);

- Easy external lib's integration.

- Theme applied:

  - *https://startbootstrap.com/template-overviews/ sb-admin-2/*

RequireJS

CLEAR THE BROWSER CACHE AFTER EVERY CHANGE!!

RequireJS

- Concept:

  - http://pedroalves-bi.blogspot.com/2015/08/pentaho-ctools-and-support-for-requirejs.html

- Main page:

  - https://help.pentaho.com/Documentation/8.0/Products/CTools/CDE_Advanced_Solutions

- Doc pages:

  - http://redmine.webdetails.org/projects/cde/wiki/RequireJS

  - http://diethardsteiner.github.io/cde/2017/04/27/Twenty-seconds-to-embedded-dashboard.html

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RequireJS

- Make a copy of dashboard **home** as **myhome**;

- Update cache of plugin *dashboard*;

- Edit settings of **myhome** and activate the "RequireJS Support" option;

- Test it.

RequireJS as a APP

- Add the folder *app* to *plugin.xml*:

```
<static-path url="/dashboard/app"  localFolder="app"/>
```

- Restart the server;

- Access:

- `http://localhost:8080`*pentaho/api/repos/dashboard/app/index.html*

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RequireJS as a APP

- Libs:

  - https://github.com/plotly/plotly.js/

  - https://www.highcharts.com/

  - https://github.com/fernandommota/bootstrap-multiselect-pentaho-filter

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RequireJS add External Lib's

- Shim configuration

```
require.config({
  paths: {
    highcharts: "https://code.highcharts.com/highcharts"
  },
  shim: {
    highcharts: {
      exports: "Highcharts"
    }
  } // end Shim Configuration
});
```

```
define(["cdf/lib/jquery", "highcharts"], function($, highcharts)
{
  return {
    highcharts: highcharts
  };
});
```

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**Thanks!
@fernandommota**

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