How to Add Custom Reports in OEE-HANA Analysis Report

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How to Add Custom Reports in OEE-HANA Analysis Report

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1 Introduction

1.1 Purpose
To add custom reports in OEE-HANA Analysis Report.

1.2 Scope
This document helps in adding custom reports in OEE-HANA Analysis Report. It explains how the SAPUI5 based report can be extended.

2 Feature Overview

2.1 Description and Applicability
This helps you in adding custom reports in OEE-HANA Analysis Report.

3 Feature Setup

3.1 Prerequisite
OEE HANA components (delivery units HCO_HBA_OEE and HCO_HBA_APPS_OEE) are deployed.

3.2 Creating a New SAPUI5 Report

1. Open HANA Studio and select SAP HANA Development perspective.
2. Install SAPUI5 plug-in, if not installed.
3. Go to Project Explorer and create SAPUI5 Application Project.
Note: If SAPUI5 Application Project option is not available then install the SAPUI5 plug-in into your SAP HANA Studio.

4. The project name must be *OEECustomReport*.

5. Right click on the project and share with any of the HANA package.
   You can select any package from the content. Only make sure that OEE component and custom report both are in same SAP HANA system.

6. After project is successfully created, it will create a folder *oecustomreport* under *WebContent*.

7. Right click on the folder *oecustomreport* and create a SAPUI5 view with name *MainReport*. 
The name of the view must be `MainReport`.

8. The `MainReport` view and controller can have the custom report code and UI components.

### 3.3 Configuration Settings for Custom Report

1. Open OEE-HANA report and click on the custom development settings button
2. In custom view package path provide the path of custom project created in step 3.2
   Provide path to custom project in format:
   
   http://<host name>:<port>/<path of project folder>
   For example,
   
   http://lddbvs3.wdf.sap.corp:8002/tmp/CustomProject/WebContent/oeecustomreport

3. Click on Initial Load Configuration button and select Custom Report checkbox.

4. Refresh the page.

5. A new tab Custom Report appears. Select that to show new report.
3.4 More Details on Custom SAPUI5 Report

1. MainReport.controller.js may have following functions to listen to the reporting events

1.1 toggleDisplay: function(toggleType)

   This function listens to the events of toggle display event for rendering tabular or graphical representation of data. toggleType variable can be compared to If the custom view has toggleDisplay method with signature given below, the framework automatically calls it when you use the toggle option.

   Syntax
   ```javascript
   toggleDisplay: function(toggleType){
       ......
   }   
   ```

   End of the code.

   toggleType has values for tabular or graphical display. You can check this against translated text in locale of user or browser using following runtime values:
   - **Graphical:** oI18nModel.getText("DISPLAY_TOOGLE_GRAPH")
   - **Tabular:** oI18nModel.getText("DISPLAY_TOOGLE_TABLE")

1.2 enableVariantReload: function()

   This method helps to reload the variants when the same report is viewed again.

   **Signature**
   ```javascript
   enableVariantReload: function(){
       filterXXX.variant = "";
   }   
   ```

   filterXXX refers to the filter object of the report. For example filterUSD.

1.3 Hierarchy node selection will trigger onInit function of the controller. This also gets called when the report tab is selected. To read the value of the selected node a global variable selectedNodeId and selectedNodeName can be accessed directly during runtime.

1.4 Adding multiple customer report tabs can be achieved by runtime objects

   initialLoadValuesOfReports: This can be further enhanced from MainReport to add further tabs. Refer the sap/hba/apps/oee/WebContent/js/global.js for the format of the data.
4  **Integration**
Not Applicable

5  **Links to Additional Information**
Please view the recording [https://sap.api.pgiconnect.com/p53694041/](https://sap.api.pgiconnect.com/p53694041/) to understand the process better.