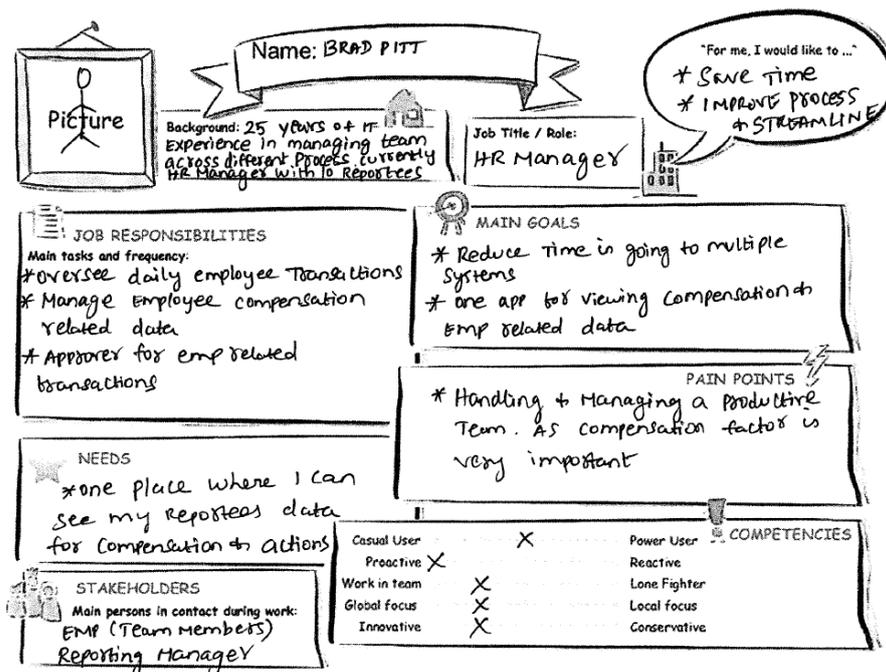# SAP Fiori Design & Build Challenge

User Story

A Manager is responsible for lot of Employee related activities. There are a lot of factors that are required as input when acting on any employee transactions. End of the day it has to be a smooth process that will streamline his job without breaking his head too much or spending more time on these activities.

One of the major tasks of a manager is validating the compensation for his employees for a better and healthier work environment. As a manager it would be helpful to have an app that would provide the list of employees in his reporting structure and their current compensation related data. Before giving his inputs on how the incentive / pay change has to affect his team members an app that would give the details of these would be a great value add.

Also, additional information on the same app with all employee related transactions would be beneficial to see when and what type of action has been taken place for an individual. This would also provide current status on all the employee related transactions and will be a good place to keep a tab on things all year around.
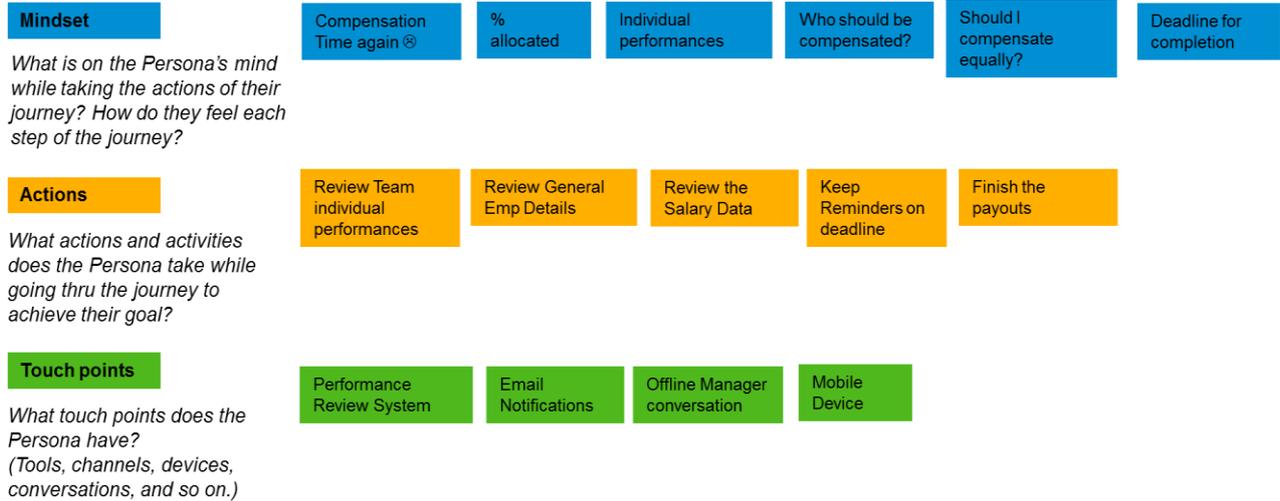
Persona

User Experience Journey

Introduction to Design Thinking
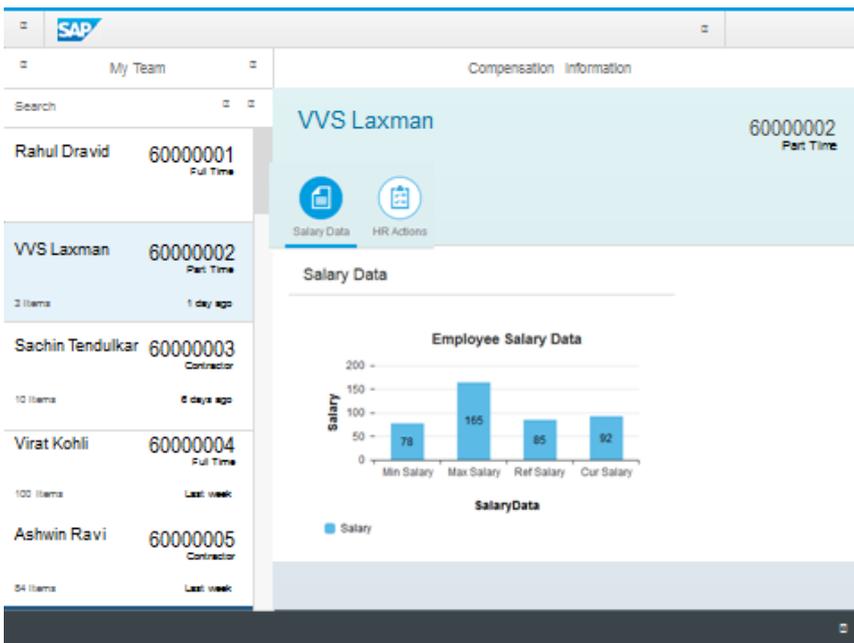User Experience Journey

Current User Experience Journey

Duration of the Journey: 30 mins

Mindset					
What is on the Persona's mind while taking the actions of their journey? How do they feel each step of the journey?	Compensation Time again ☹	% allocated	Individual performances	Who should be compensated?	Should I compensate equally?	Deadline for completion

Actions					
What actions and activities does the Persona take while going thru the journey to achieve their goal?	Review Team individual performances	Review General Emp Details	Review the Salary Data	Keep Reminders on deadline	Finish the payouts

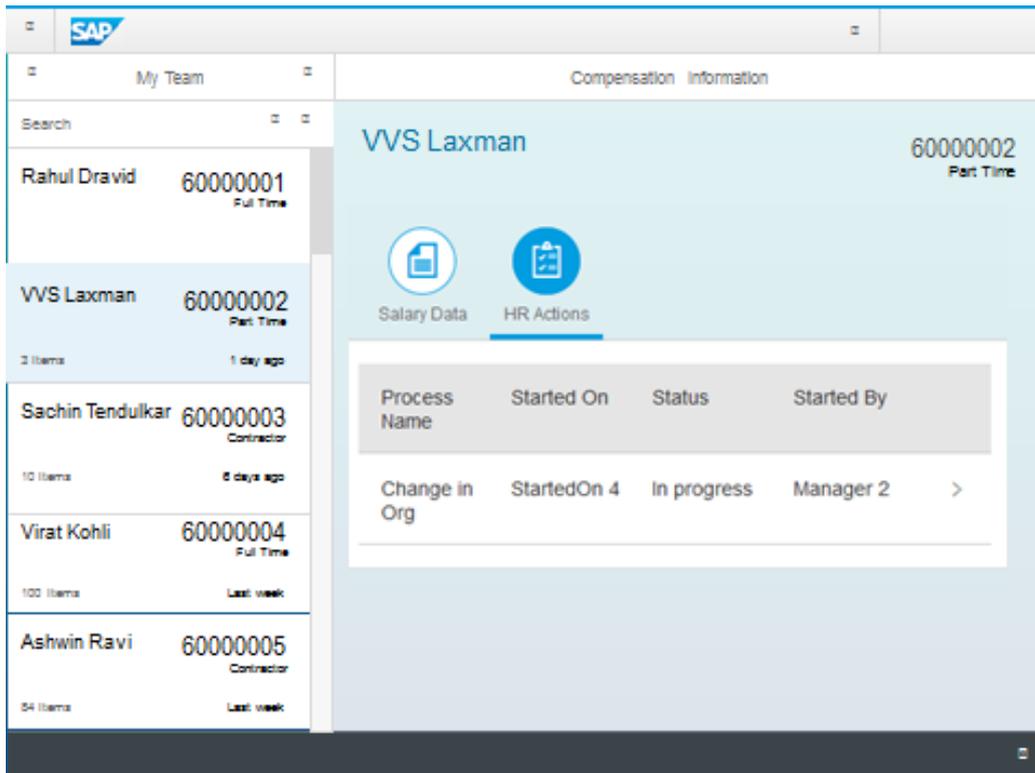| Touch points				
What touch points does the Persona have? (Tools, channels, devices, conversations, and so on.)	Performance Review System	Email Notifications	Offline Manager conversation	Mobile Device

Prototyping

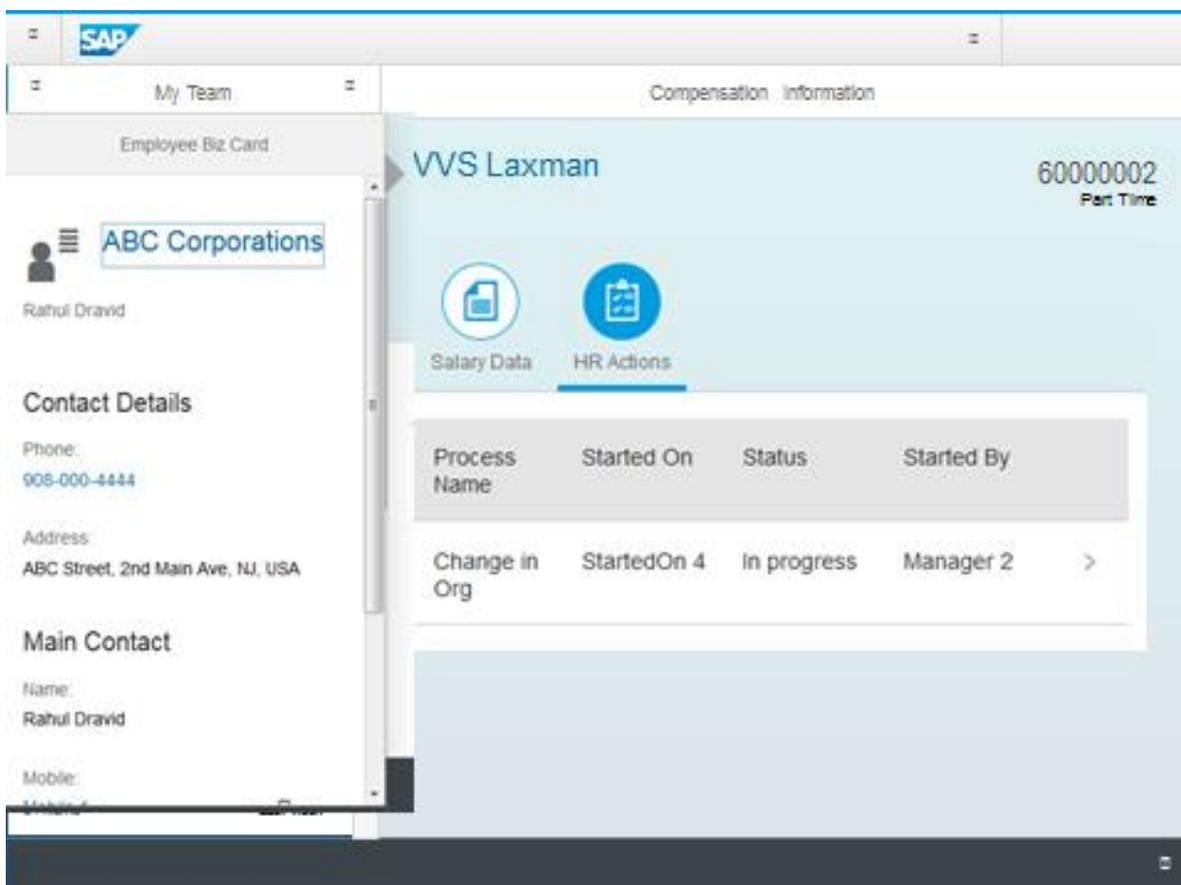Master Details Application for Employee Compensation Page

Displaying the Salary Data Page in a stacked column chart

A Table to display Employee Related Transactions in a separate Tab

Quick Overview Company Launch for the Header Name

App Prototype using Web IDE

Generated EDMX file for the Employee compensation on own for mock data purpose. Displaying the Key components for informational purpose

```
<EntityType Name="Team" sap:content-version="1">
    <Key>
        <PropertyRef Name="EmpId"/>
    </Key>
    <Property Name="EmpId" Type="Edm.String" Nullable="false" MaxLength="10" sap:label="Personnel #"/>
    <Property Name="Name" Type="Edm.String" MaxLength="4" sap:label="Name"/>
    <Property Name="StartDate" Type="Edm.DateTime" sap:label="Start Date"/>
    <Property Name="PersArea" Type="Edm.String" MaxLength="10" sap:label="Personnel Area"/>
    <Property Name="PersSubArea" Type="Edm.String" MaxLength="4" sap:label="Personnel SubArea"/>
    <Property Name="OrgUnit" Type="Edm.String" MaxLength="2" sap:label="Organizational Unit"/>
    <Property Name="Position" Type="Edm.String" MaxLength="2" sap:label="Position"/>
    <Property Name="Email" Type="Edm.String" Precision="15" Scale="2" sap:label="Email"/>
    <Property Name="Land" Type="Edm.String" Precision="15" Scale="2" sap:label="Landline"/>
    <Property Name="Mobile" Type="Edm.String" Precision="15" Scale="2" sap:label="Mobile"/>
    <Property Name="Company" Type="Edm.String" Precision="15" Scale="2" sap:label="Company"/>
    <Property Name="Address" Type="Edm.String" Precision="15" Scale="2" sap:label="Compamny Address"/>
    <Property Name="PayrollArea" Type="Edm.String" MaxLength="5" sap:label="Payroll Area"/>
    <NavigationProperty Name="ActivityDetails" Relationship="COMPINFOXX.Team_Activities" FromRole="FromRole_Team_Activities" ToRole="ToRole_Team_Activities"/>
</EntityType>
<EntityType Name="Activity" sap:content-version="1">
    <Key>
        <PropertyRef Name="EmpId"/>
        <PropertyRef Name="ProcessName"/>
    </Key>
    <Property Name="EmpId" Type="Edm.String" Nullable="false" MaxLength="10" sap:label="Personnel #"/>
    <Property Name="ProcessName" Type="Edm.String" Nullable="false" MaxLength="6" sap:label="Process Name"/>
    <Property Name="ObjKey" Type="Edm.String" MaxLength="18" sap:label="Object Key"/>
    <Property Name="ObjType" Type="Edm.String" MaxLength="40" sap:label="Object Type"/>
    <Property Name="Startedby" Type="Edm.String" MaxLength="4" sap:label="Started By"/>
    <Property Name="CurrentProcessor" Type="Edm.String" Precision="15" Scale="3" sap:label="Current Processor"/>
    <Property Name="StartedOn" Type="Edm.String" MaxLength="3" sap:label="Sales unit" sap:semantics="Started On"/>
    <Property Name="Status" Type="Edm.String" Precision="15" Scale="2" sap:label="Status"/>
</EntityType>
```

Mapping and Referential Constraint for Header to Item navigation

```
<Association Name="Team_Activities" sap:content-version="1">
    <End Type="COMPINFOXX.Team" Multiplicity="1" Role="FromRole_Team_Activities"/>
    <End Type="COMPINFOXX.Activity" Multiplicity="*" Role="ToRole_Team_Activities"/>
    <ReferentialConstraint>
        <Principal Role="FromRole_Team_Activities">
            <PropertyRef Name="EmpId"/>
        </Principal>
        <Dependent Role="ToRole_Team_Activities">
            <PropertyRef Name="EmpId"/>
        </Dependent>
    </ReferentialConstraint>
</Association>
<EntityContainer Name="COMPINFOXX" m:IsDefaultEntityContainer="true">
    <EntitySet Name="TeamDetails" EntityType="COMPINFOXX.Team" sap:content-version="1"/>
    <EntitySet Name="ActivityDetails" EntityType="COMPINFOXX.Activity" sap:content-version="1"/>
    <AssociationSet Name="Team_Activities_Assoc" Association="COMPINFOXX.Team_Activities" sap:creatable="false" sap:updatable="false" sap:deletable="false" sap:content-version="1">
        <End EntitySet="TeamDetails" Role="FromRole_Team_Activities"/>
        <End EntitySet="ActivityDetails" Role="ToRole_Team_Activities"/>
    </AssociationSet>
</EntityContainer>
```

Would like to show how I used the Web IDE to design 2 of the SAPUI5 components into my Fiori Compensation app.

1. Stacked Column Chart

```
handleTitlePress: function(oEvent) {
    jQuery.sap.require("sap.ca.ui.quickoverview.CompanyLaunch");
    var oSource = oEvent.getSource();
    var oEmp = oSource.getBindingContext();
    var sEmpId = oEmp.getProperty("EmpId");
    var sEmpName = oEmp.getProperty("Name");
    var fCallbackNavPara = function() {
        //callback function for providing external navigation parameters
        var oNavConfig = {};
        oNavConfig.target = {};
        oNavConfig.target.semanticObject = "Detail";
        oNavConfig.target.action = "Test";
        oNavConfig.params = {
            Employee: sEmpId
        };
        return oNavConfig;
    };
    var oEmpConfig = {
        title: "Employee Biz Card",
        maincontactname: sEmpName,
        maincontactmobile: oEmp.getProperty("Mobile"),
        maincontactphone: oEmp.getProperty("Land"),
        maincontactemail: oEmp.getProperty("Email"),
        companyname: "ABC Corporations",
        companyaddress: "ABC Street, 2nd Main Ave, NJ, USA",
        companyphone: '908-000-4444',
        beforeExtNav: fCallbackNavPara
    };
    // Set data for the business card
    new sap.ca.ui.quickoverview.CompanyLaunch(oEmpConfig).openBy(oSource);
},
```

2. Quick Overview Company Launch

    This is a static data I have to display in the Salary Data Icon Tab in the init of the DetailView Controller.

```
// some business data
var oChartModel = new sap.ui.model.json.JSONModel({
    businessData: [
        {
            SalaryData: "Min Salary",
            Salary: 78.000
        },
        {
            SalaryData: "Max Salary",
            Salary: 165.000
        },
        {
            SalaryData: "Ref Salary",
            Salary: 85.000
        },
        {
            SalaryData: "Cur Salary",
            Salary: 92.000
        }
    ]
});
```
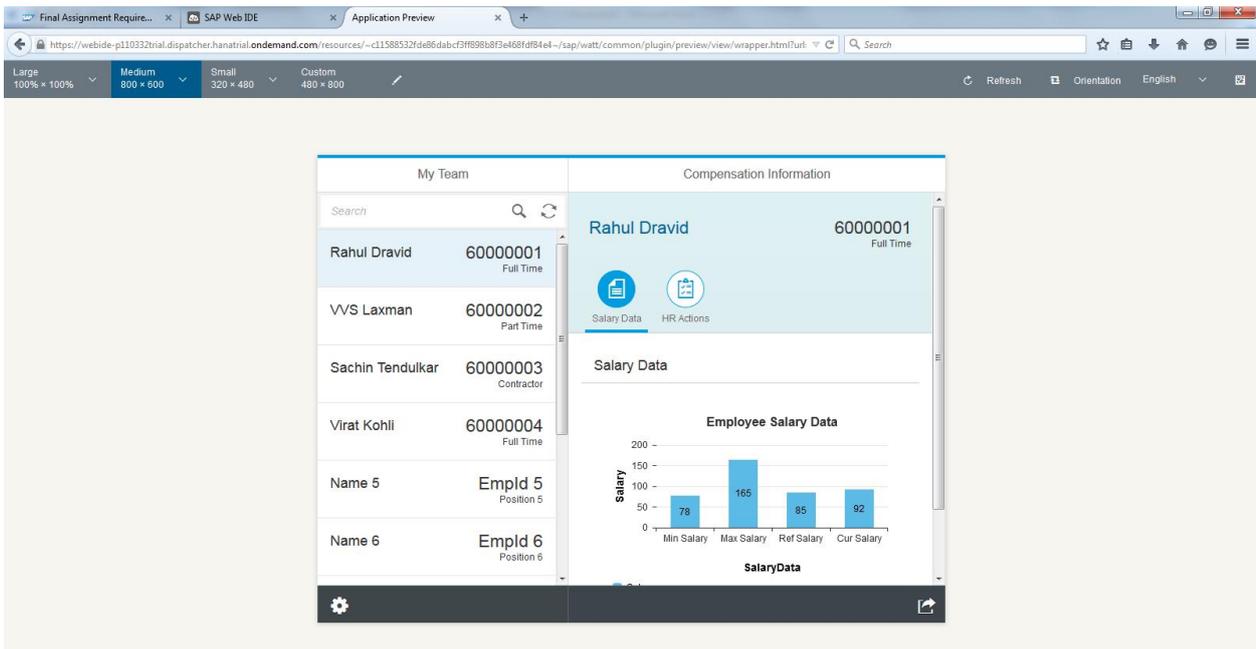
```
// A Dataset defines how the model data is mapped to the chart
var oDataset = new sap.viz.ui5.data.FlattenedDataset({
    // a Bar Chart requires exactly one dimension (x-axis)
    dimensions: [
        {
            axis: 1, // must be one for the x-axis, 2 for y-axis
            name: 'SalaryData',
            value: "{SalaryData}"
        }
    ],

    // it can show multiple measures, each results in a new set of bars in a new color
    measures: [
    // measure 1
        {
            name: 'Salary', // 'name' is used as label in the Legend
            value: '{Salary}' // 'value' defines the binding for the displayed value
        }
    ],

    // 'data' is used to bind the whole data collection that is to be displayed in the chart
    data: {
        path: "/businessData"
    }
```
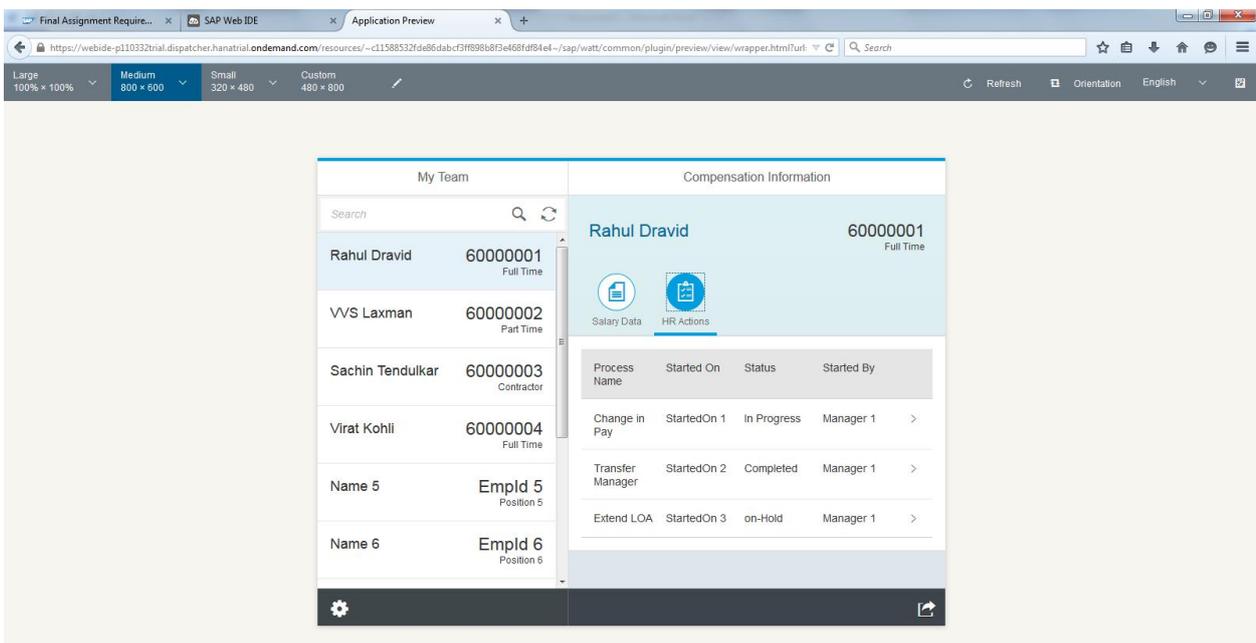
Added additional feeds to the viz frame and atached the dataset and model.

Running app with Mock Data

Master Details Screen with Employee and Salary Data

Employee Related Transactions

Quick Overview of Employee