



PT. BERLIAN SISTEM INFORMASI



# ***OPERATING LEASE SUPPORT SYSTEM DEVELOPMENT***

**FOR**



## ***REPORT FRAMEWORK***

**Revision 1.0**

Prepared by:

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### Report Framework

Project	Operating Lease Support System Development		
Author	Setiyono	Date	15 Juni 2015
Status	Baseline	Version	1.0
Document	OS144028 - DSF OLSS - Report Framework Rev.1.0.doc	Page	Page 2 of 18

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### Document Approval

By signing this document I acknowledge I have read the document and give the Project Management Team approval to proceed.

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## Bab 1. Regulation of Making Report

### 1.1 Introduction

Required a standard in making report on the OLSS application.

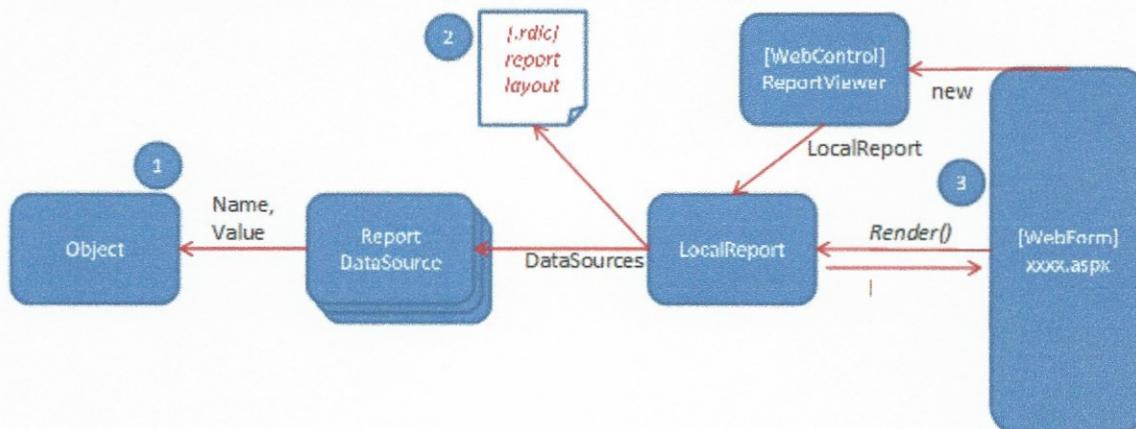


Figure 1. Flow of making report

### 1.2 Prerequisite

Requirements that must be met to make a report:

1. Ms Windows 7 or later
2. Ms Visual Studio 2013 or later
3. Ms SQL Server 2012 or later
4. .Net Framework 4.5 or later

### 1.3 Instruction

This section will explain step by step how to create RDLC report in Visual Studio 2013 (Developer side):

1. Adding the Object class

We will make use of Object class to populate the RDLC report with data from database. Our first step would be to add an Object class. Right-click on selected Project then select Add New Item then select Class.

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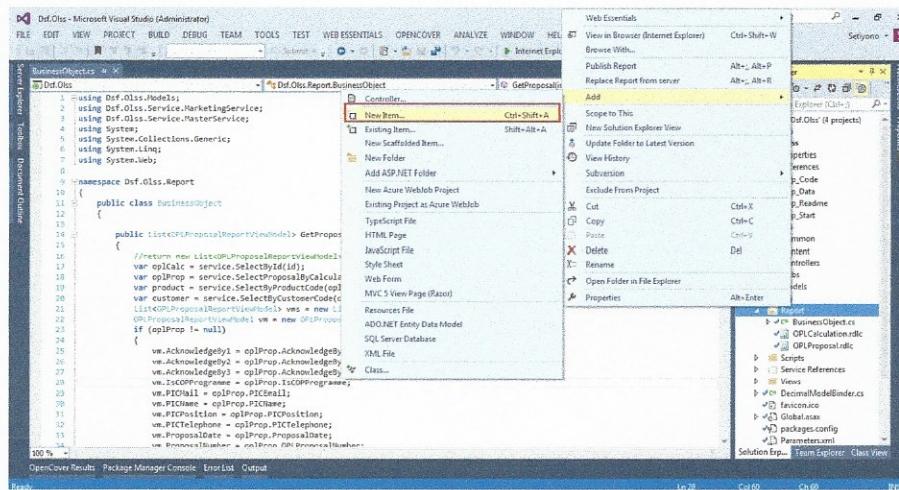


Figure 2. Add New Item

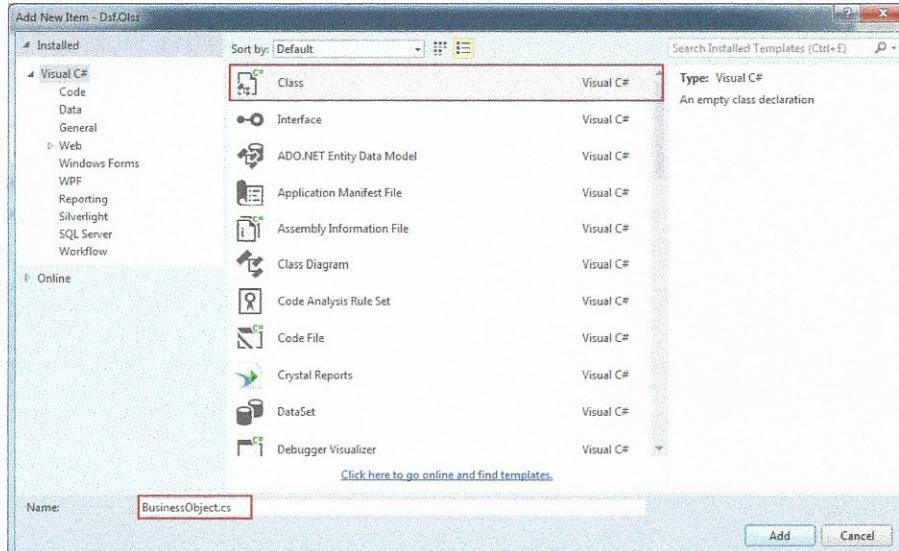


Figure 3. Create New Class

Then add the following code to define the data that will appear in the report

```
using Dsf.Olss.Models;
using Dsf.Olss.Service.MarketingService;
using Dsf.Olss.Service.MasterService;
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;

namespace Dsf.Olss.Report
{
    public class BusinessObject
    {
        public List<OPLProposalReportViewModel> GetProposal(int id, IOPLCalculationService
service)
```

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```

{
    var oplCalc = service.SelectById(id);
    var oplProp =
service.SelectProposalByCalculationNumber(oplCalc.OPLCalculationNumber);
    var product = service.SelectByProductCode(oplCalc.ProductCode);
    var customer = service.SelectByCustomerCode(oplCalc.CustomerCode);
    List<OPLProposalReportViewModel> vms = new List<OPLProposalReportViewModel>();
    OPLProposalReportViewModel vm = new OPLProposalReportViewModel();
    if (oplProp != null)
    {
        vm.AcknowledgeBy1 = oplProp.AcknowledgeBy1;
        vm.AcknowledgeBy2 = oplProp.AcknowledgeBy2;
        vm.AcknowledgeBy3 = oplProp.AcknowledgeBy3;
        vm.IsCOPProgramme = oplProp.IsCOPProgramme;
        vm.PICMail = oplProp.PICEmail;
        vm.PICName = oplProp.PICName;
        vm.PICPosition = oplProp.PICPosition;
        vm.PICTelephone = oplProp.PICTelephone;
        vm.ProposalDate = oplProp.ProposalDate;
        vm.ProposalNumber = oplProp.OPLProposalNumber;
        vm.Remarks = oplProp.Remarks;
        vm.ProposeBy = oplProp.ProduceBy;
        vm.PurposeOfUse = oplProp.PurposeOfUse;
        vm.To = oplProp.To;
        vm.ApproveBy = oplProp.ApproveBy;
        vm.DeadlineQuotationSubmission = oplProp.Validuntil;
    }
    vm.Address = customer.Address;
    vm.BrandName = product.BrandName;
    vm.BusinessEconomySector = customer.BusinessEconomySector;
    vm.CustomerName = customer.CustomerName;
    vm.CustomerTelephone = customer.Telephone;
    vm.LeasePeriodPlan = oplCalc.LeasePeriodPlan;
    vm.MaintenanceType =
service.GetOptionValueName(System.Convert.ToInt32(oplCalc.MaintenanceType));
    vm.ModelName = product.ModelName;
    vm.MonthlyInstallmentAmount = oplCalc.MonthlyInstallmentAmount;
    vm.OPLCalculationNumber = oplCalc.OPLCalculationNumber;
    vm.ProductPrice = oplCalc.ProductPrice;
    vm.Ratio = oplCalc.MonthlyInstallmentSetting;
    if (oplCalc.OPLBasicCondition != null)
    {
        vm.ResidualValueAmount = oplCalc.OPLBasicCondition.ResidualValueAmount;
        vm.SResidualValueAmount = oplCalc.OPLBasicCondition.SResidualValueAmount;
    }
    vm.TotalProfitAmount = oplCalc.TotalProfitAmount;
    vm.TotalUnitQuantity = oplCalc.TotalUnitQuantityLease;
    vms.Add(vm);
    return vms;
}

public List<OPLProposalAttachmentReportViewModel> GetOPLCalculation(int id,
IOPLCalculationService service)
{
}

```

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```

List<OPLProposalAttachmentReportViewModel> vms = new
List<OPLProposalAttachmentReportViewModel>();
var oplCalc = service.SelectById(id);
service.Calculate(ref oplCalc);
var product = service.SelectByProductCode(oplCalc.ProductCode);
var customer = service.SelectByCustomerCode(oplCalc.CustomerCode);
var oplProp =
service.SelectProposalByCalculationNumber(oplCalc.OPLCalculationNumber);
OPLProposalAttachmentReportViewModel vm = new
OPLProposalAttachmentReportViewModel();
if (oplProp != null)
{
    vm.IsCOPProgramme = oplProp.IsCOPProgramme;
}
if (oplCalc.OPLBasicCondition != null)
{
    vm.AccesoriesDiscount = oplCalc.OPLBasicCondition.AccesoriesDiscount;
    vm.AccesoriesPrice = oplCalc.OPLBasicCondition.AccesoriesPrice;
    vm.AccesoriesPriceTotal = oplCalc.OPLBasicCondition.AccesoriesPriceTotal;
    vm.ATPMDiscount = oplCalc.OPLBasicCondition.ATPMDiscount;
    vm.CarroserieDiscount = oplCalc.OPLBasicCondition.CarroserieDiscount;
    vm.CarroseriePrice = oplCalc.OPLBasicCondition.CarroseriePrice;
    vm.CarroseriePriceTotal = oplCalc.OPLBasicCondition.CarroseriePriceTotal;
    vm.ProductDiscount = oplCalc.OPLBasicCondition.ProductDiscount;
    vm.ProductPrice = oplCalc.OPLBasicCondition.ProductPrice;
    vm.ProductPriceTotal = oplCalc.OPLBasicCondition.ProductPriceTotal;
    vm.SResidualValue = oplCalc.OPLBasicCondition.SResidualValueAmount;
    vm.ResidualValue = oplCalc.OPLBasicCondition.ResidualValueAmount;
}
if (oplCalc.OPLFinanceCondition != null)
{
    vm.AdministrationFee = oplCalc.OPLFinanceCondition.AdministrationFeeAmount;
    vm.BorrowingEffective =
oplCalc.OPLFinanceCondition.BorrowingEffectivePercent;
    vm.DemobilizationAmount =
oplCalc.OPLFinanceCondition.DemobilizationFeeAmount;
    vm.DPBeforeBASTAccesories =
oplCalc.OPLFinanceCondition.DPBeforeBASTAccesories;
    vm.DPBeforeBASTCarroserie =
oplCalc.OPLFinanceCondition.DPBeforeBASTCarroserie;
    vm.DPBeforeBASTProduct = oplCalc.OPLFinanceCondition.DPBeforeBASTProduct;
    vm.DPPeriodBASTAccesories =
oplCalc.OPLFinanceCondition.DPPeriodBASTAccesories;
    vm.DPPeriodBASTCarroserie =
oplCalc.OPLFinanceCondition.DPPeriodBASTCarroserie;
    vm.DPPeriodBASTProduct = oplCalc.OPLFinanceCondition.DPPeriodBASTProduct;
    vm.MobilizationAmount = oplCalc.OPLFinanceCondition.MobilizationFeeAmount;
    vm.PrimeEffective = oplCalc.OPLFinanceCondition.PrimeEffectivePercent;
    vm.PSBeforeBASTAccesories =
oplCalc.OPLFinanceCondition.PSBeforeBASTAccesories;
    vm.PSBeforeBASTCarroserie =
oplCalc.OPLFinanceCondition.PSBeforeBASTCarroserie;
    vm.PSBeforeBASTProduct = oplCalc.OPLFinanceCondition.PSBeforeBASTProduct;
    vm.PSPeriodBASTAccesories =

```

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```

oplCalc.OPLFinanceCondition.PSPeriodBASTAccesories;
    vm.PSPeriodBASTCarroserie =
oplCalc.OPLFinanceCondition.PSPeriodBASTCarroserie;
    vm.PSPeriodBASTProduct = oplCalc.OPLFinanceCondition.PSPeriodBASTProduct;
    vm.ReplacementCarAmount = oplCalc.OPLFinanceCondition.ReplacementCarAmount;
    vm.SpreadEffective = oplCalc.OPLFinanceCondition.SpreadEffectivePercent;
    vm.TermOfPayment = oplCalc.OPLFinanceCondition.TermPaymentDays;
    vm.KEURRenewalFee = oplCalc.OPLFinanceCondition.KIRRenewalFee.HasValue ?
(oplCalc.OPLFinanceCondition.KIRRenewalFee.Value * oplCalc.PeriodInYears) : 0;
    vm.STNKRenewalFee = oplCalc.OPLFinanceCondition.STNKRenewalFee.HasValue ?
(oplCalc.OPLFinanceCondition.STNKRenewalFee.Value * oplCalc.PeriodInYears) : 0;
    vm.RegistrationValueAmount =
oplCalc.OPLFinanceCondition.RegistrationValueAmount.HasValue ?
oplCalc.OPLFinanceCondition.RegistrationValueAmount.Value : 0;
    vm.RegistrationValueRate =
oplCalc.OPLFinanceCondition.RegistrationValueRate.HasValue ?
oplCalc.OPLFinanceCondition.RegistrationValueRate.Value : 0;
}
if (oplCalc.OPLInsuranceCondition != null)
{
    vm.InsuranceIncome = oplCalc.OPLInsuranceCondition.ComissionAmount;
    vm.MediatorFeeAmount = oplCalc.OPLInsuranceCondition.ComissionAmount;
    vm.NetPremium = oplCalc.OPLInsuranceCondition.NetPremium;
    vm.TotalGrossPremium = oplCalc.OPLInsuranceCondition.TotalGrossPremium;
    vm.CommissionAmount = oplCalc.OPLInsuranceCondition.ComissionAmount;
}
if (oplCalc.OPLMaintenanceCondition != null)
{
    vm.TotalMaintenanceAmount =
oplCalc.OPLMaintenanceCondition.TotalMaintenanceAmount;
}
var maintenanceTypeNames =
service.GetOptionValueName(System.Convert.ToInt32(oplCalc.MaintenanceType));
    vm.AccesoriesType = oplCalc.AccessoriesType;
    vm.BrandName = product.BrandName;
    vm.CarroserieType = oplCalc.CarroserieType;
    vm.InsuranceCost = oplCalc.InsuranceCost;
    vm.OPLCalculationNumber = oplCalc.OPLCalculationNumber;
    vm.InterestExpense = oplCalc.InterestExpense;
    vm.InterestExpenseBAST = oplCalc.InterestExpenseBAST;
    vm.InterestExpenseTOP = oplCalc.InterestCostTop;
    vm.LeasePeriodPlan = oplCalc.LeasePeriodPlan;
    vm.MaintenanceCost = oplCalc.MaintenanceCost;
    vm.MaintenanceType = maintenanceTypeNames;
    vm.ModelName = product.ModelName;
    vm.MonthlyInstallmentAmount = oplCalc.MonthlyInstallmentAmount;
    vm.MonthlyInstallmentSetting = oplCalc.MonthlyInstallmentSetting;
    vm.ReplacementUnitCost = oplCalc.ReplacementUnitCost;
    vm.TotalCost = oplCalc.TotalCost;
    vm.TotalPrice = oplCalc.ProductPrice;
    vm.TotalIncome = oplCalc.TotalProfitAmount.HasValue ?
oplCalc.TotalProfitAmount.Value : 0;
    vm.TotalMonthlyInstallmentAmount = oplCalc.MonthlyInstallmentAmount *
oplCalc.LeasePeriodPlan;

```

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```
        vm.TotalProfit = oplCalc.TotalProfitAmount;
        vms.Add(vm);
        return vms;
    }
}
```

Figure 4. The BusinessObject class code

## 2. Adding the RDLC Report

Using the Add New Item option in Visual Studio to add new RDLC report.  
Select Report item and provide name.

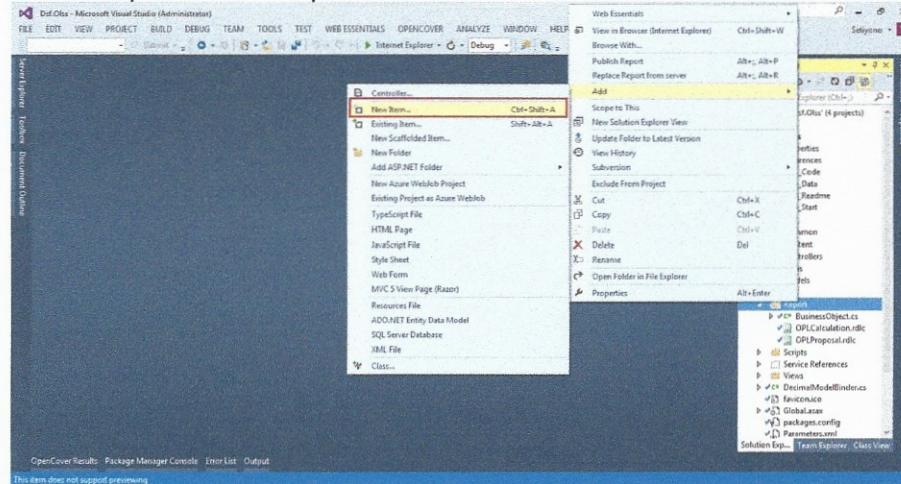


Figure 5. Add New Item

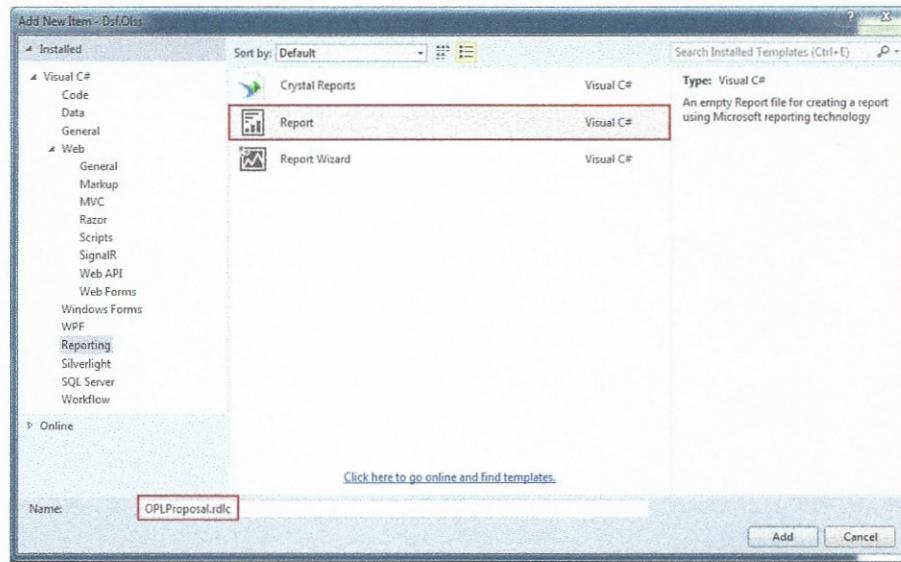


Figure 6. Create New RDLC Report

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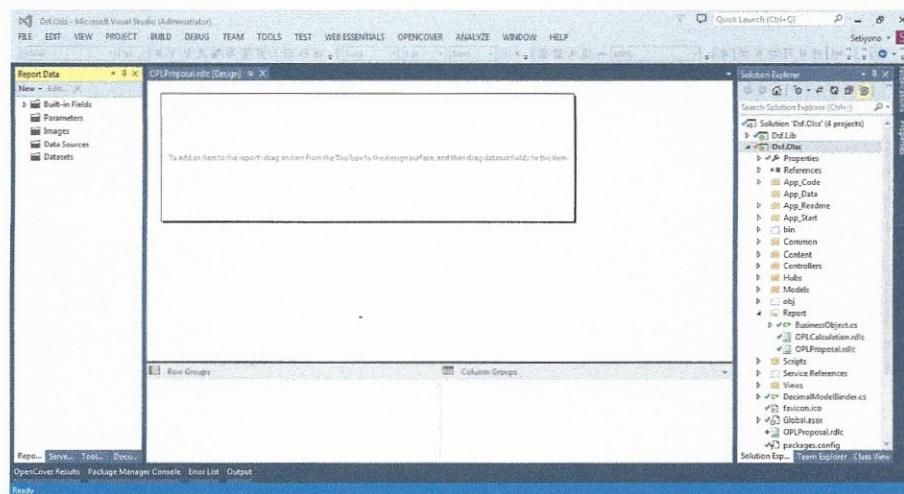


Figure 7. View of RDLC Report

### 3. Choose the DataSource

Now We need to choose the DataSource for the RDLC Report. Thus We need to select the Object class that We have created earlier.

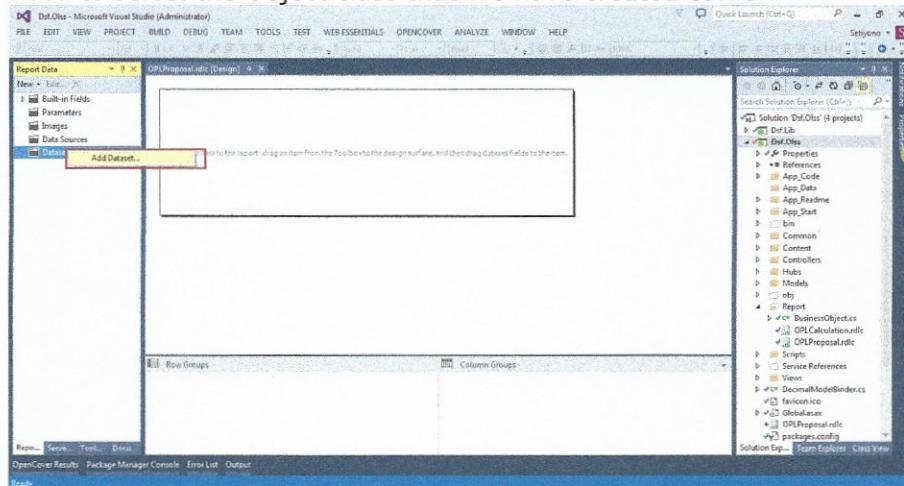


Figure 8. Right-click, then click Add Dataset

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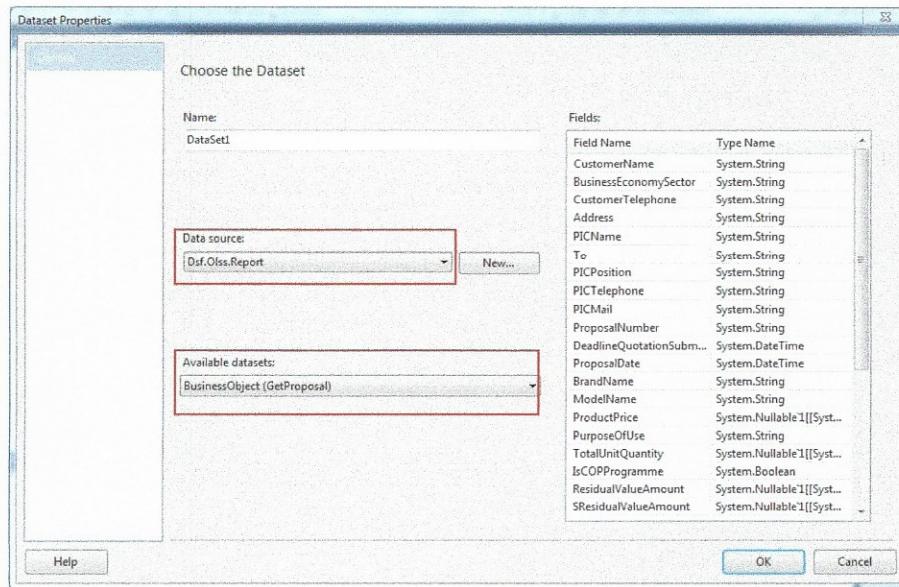


Figure 9. Determine Datasource

#### 4. Designing Report

Next We need to design reports follow the example given. Use control on toolbox for designing reports.

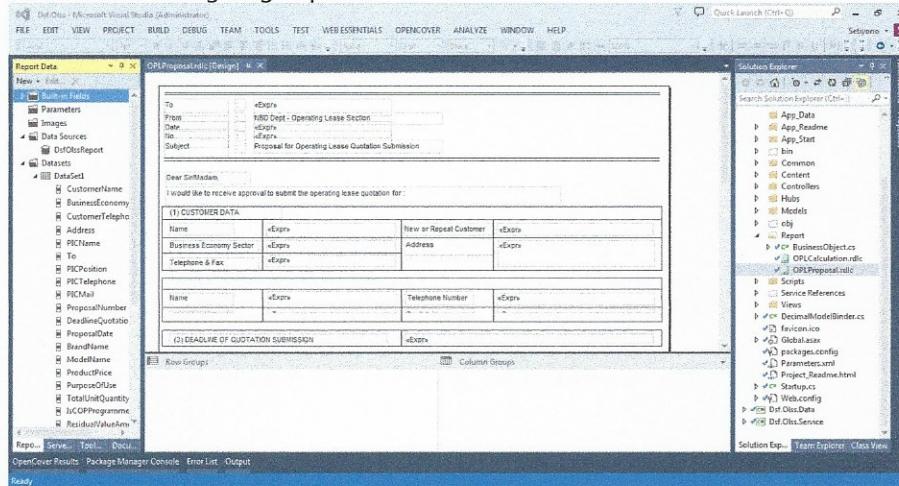


Figure 10. Designing layout report

#### 5. Adding Report Viewer to the page

Microsoft.Reporting.WebForms.ReportViewer control will be required to provide RDLC report. And also ScriptManager will be needed to run ReportViewer on same page.

For ease of development, this system will implement WebForm (aspx) for each report (rdlc). Each report layout must related to WebForm. Now add a WebForm to selected Project.

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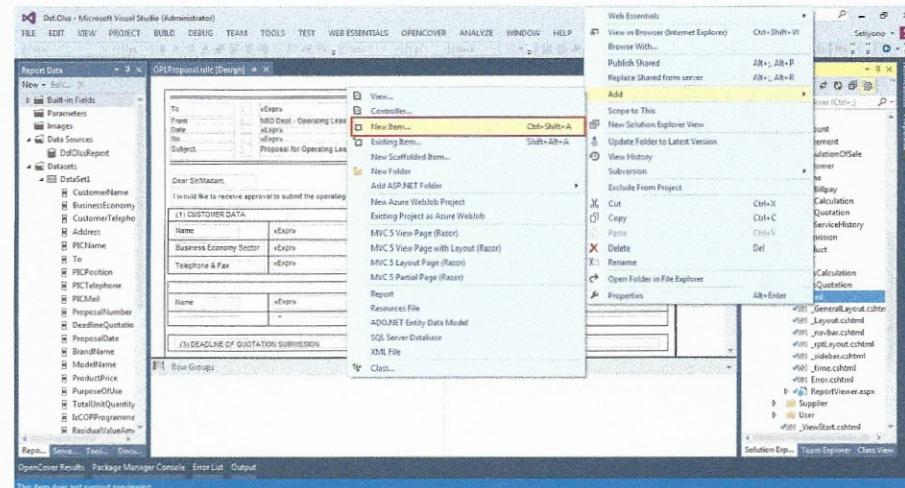


Figure 11. Add New Item

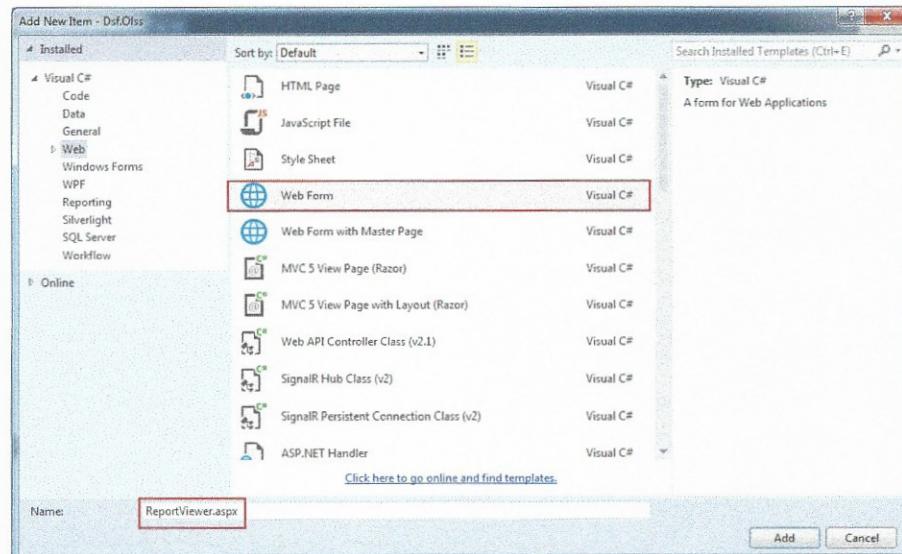


Figure 12. Create new WebForm

Then, add a ScriptManager and ReportViewer control from the Toolbox on a WebForm.

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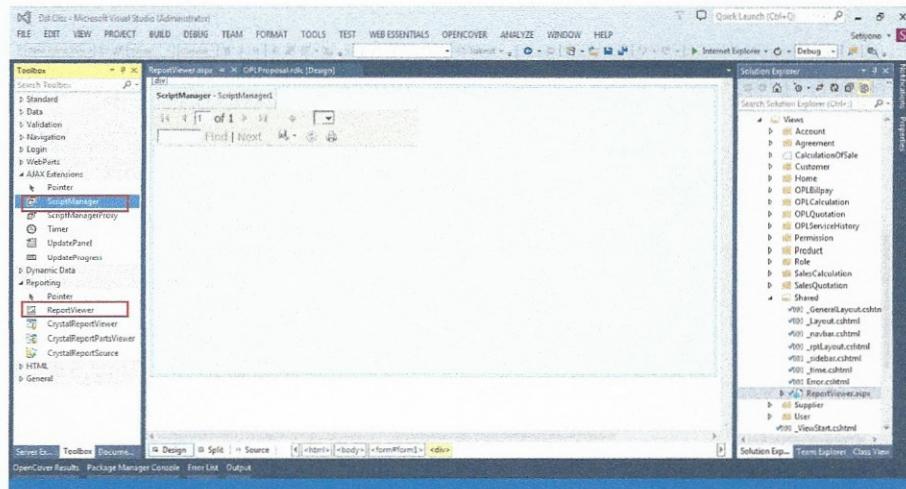


Figure 13. Add ScriptManager and ReportViewer to page

Once add the ReportViewer control to the page, the page must look as below

```
<%@ Page Language="C#" Inherits="System.Web.Mvc.ViewPage<dynamic>" %>

<%@ Register Assembly="Microsoft.ReportViewer.WebForms, Version=11.0.0.0, Culture=neutral,
PublicKeyToken=89845dc8d8080cc91" Namespace="Microsoft.Reporting.WebForms" TagPrefix="rsweb"
%>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>

<body>
    <form id="form1" runat="server">
        <div>
            <asp:ScriptManager ID="ScriptManager1" runat="server"></asp:ScriptManager>
            <rsweb:ReportViewer ID="ReportViewer1" runat="server">
            </rsweb:ReportViewer>
        </div>
    </form>
</body>
</html>
```

Figure 14. WebForm code

## 6. Populating the RDLC Report from Database

Now go to the Source of the ReportViewer.aspx WebForm. Then add the following code for Page\_Load event

```
<%@ Page Language="C#" Inherits="System.Web.Mvc.ViewPage<dynamic>" %>

<%@ Register Assembly="Microsoft.ReportViewer.WebForms, Version=11.0.0.0, Culture=neutral,
PublicKeyToken=89845dc8d8080cc91" Namespace="Microsoft.Reporting.WebForms" TagPrefix="rsweb"
%>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
```

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```

<title></title>
<script runat="server">
    void Page_Load(object sender, EventArgs e)
    {
        if (!IsPostBack)
        {
            var reportsession =
(Dsf.Olss.Common.ReportSessionData)Session["ReportData"];

            ReportViewer1.LocalReport.ReportPath =
Server.MapPath(reportsession.ReportPath);
            ReportViewer1.LocalReport.DataSources.Clear();
            ReportDataSource rdc = new ReportDataSource("DataSet1",
reportsession.ReportData);
            ReportViewer1.LocalReport.DataSources.Add(rdc);
            ReportViewer1.LocalReport.Refresh();
        }
    }
</script>
</head>

<body>
<form id="form1" runat="server">
<div>
<asp:ScriptManager ID="ScriptManager1" runat="server"></asp:ScriptManager>
<rsweb:ReportViewer ID="ReportViewer1" runat="server" AsyncRendering="false"
SizeToReportContent="true" Font-Names="Verdana" Font-Size="8pt" WaitMessageFont-
Names="Verdana" WaitMessageFont-Size="14pt">
<LocalReport ReportPath="Report\OPLProposal.rdlc">
</LocalReport>
</rsweb:ReportViewer>
</div>
</form>
</body>
</html>

```

Figure 15. Code for populating the RDLC report from database

Above is the code to populate the RDLC Report from database. The first statement will get data from Session. The session stores parameters of report. We use single .aspx for viewing all report, so Session store is utilized.

#### 7. Insert WebForm into cshtml

Because of We use MVC project, then We need to insert webform into cshtml. We are making use of the partial view. First create a Views with name ProposalReport.cshtml, then replace code with below

```

@{
    ViewBag.Title = "Operating Lease Proposal";
}
@Html.Partial("ReportViewer")

```

Figure 16. Code for display report on cshtml

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## Bab 2. Regulation of Using Report

### 2.1 Introduction

Required a manual in using report on the OLSS application.

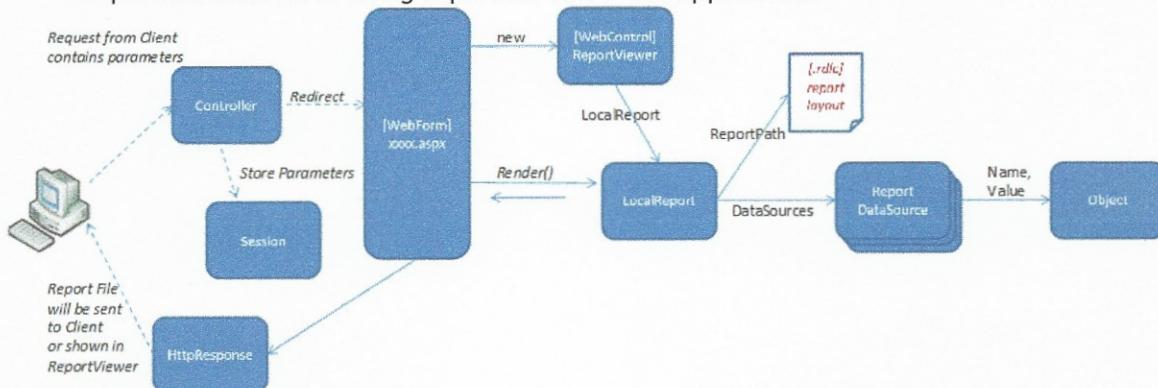


Figure 17. Flow of Using report

### 2.2 Prerequisite

Requirements that must be met in order to use the report:

1. Modern browser, i.e: Internet Explorer 9 or later
2. Pdf viewer, i.e: Adobe Acrobat 6 or later
3. Excel viewer, i.e: Ms Excel 2003 or later
4. Available printer device

### 2.3 Instruction

This section will explain how to use the reporting function (User side) :

1. Making request to view the report

This provide an explanation of how to view the report. We will use the Proposal report as an example. Follow these steps :

- a. Please open OLSS application using a browser.
- b. Open "Calculation of Operating Lease" screen by click Marketing menu

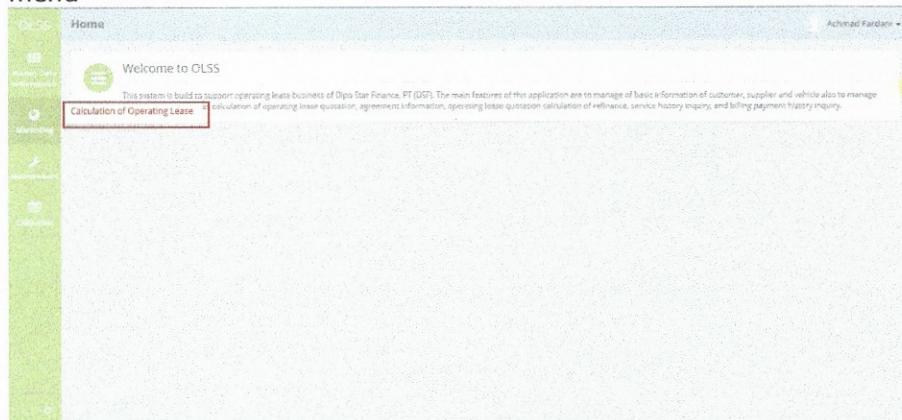


Figure 18. Menu Calculation Operating Lease

- c. Please select one active record, and click "Proposal Report" button

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Calculation of Operating Lease										
<a href="#">+ Create</a> List of Calculation Operating Lease										
Show 10 entries <input type="button" value="Search"/>										
OLP_Calculation_Number	Lease Category	Product Brand Name	Maintenance Type	Quantity	Monthly Installment	CreateBy	CreateDate	Status	Action	
00021/OCN/01/05/2015	Used	MITSUBISHI	Customer Service Desk	1	50.300.000	Achmad Fardani	5/7/2015	<span style="color: green;">Approved</span>		
00022/OCN/01/05/2015	New	MITSUBISHI	Customer Service Desk	1	22.120.000	Achmad Fardani	5/7/2015	<span style="color: green;">Approved</span>		
00023/OCN/01/05/2015	New	MITSUBISHI	Full Maintenance	5	2.054.770.000	Achmad Fardani	5/7/2015	<span style="color: green;">Approved</span>		
00024/OCN/01/05/2015	New	MITSUBISHI	Full Maintenance	0	0	Achmad Fardani	5/7/2015	<span style="color: green;">Approved</span>		
00025/OCN/01/05/2015	New	MITSUBISHI	Full Maintenance	0	0	Achmad Fardani	5/7/2015	<span style="color: green;">Approved</span>		
00026/OCN/01/05/2015	New	MITSUBISHI	Full Maintenance	0	0	Achmad Fardani	5/7/2015	<span style="color: green;">Approved</span>		
00027/OCN/01/05/2015	New	MITSUBISHI	Full Maintenance	0	0	Achmad Fardani	5/7/2015	<span style="color: green;">Approved</span>		
00028/OCN/01/05/2015	New	MITSUBISHI	Full Maintenance	0	0	Achmad Fardani	5/7/2015	<span style="color: green;">Approved</span>		

Figure 19. Calculation of Operating Lease screen

#### d. "Proposal Report" screen will be displayed

Operating Lease Proposal										
To	Mr. Qasby									
From	NBO Dept - Operating Lease Section									
Date	8 - May - 2015									
No.	00010/OPR/01/05/2015									
Subject	Proposal for Operating Lease Quotation Submission									
<hr/>										
Dear Sir/Madam,										
I would like to receive approval to submit the operating lease quotation for										
(1) CUSTOMER DATA										
Name	KANGAR CONSOLIDATED INDUSTRIES, PT	New or Repeat Customer	for testing purpose							
Business Economy Sector	INDUSTRY & MANUFACTURES	Address	JL. RAYA HAMENGGUBUNG KM. 24.5							
Telephone & Fax	021-48956209									
<hr/>										
(2) PIC DATA										
Name	Achmad Fardani	Telephone Number	08118600530							
Position	Marketing Officer	Email Address	deny@corsetta.com							
<hr/>										
(3) DEADLINE OF QUOTATION SUBMISSION										
8 - May - 2015										
<hr/>										
(4) OPERATING LEASE CONDITION										
Product Name	MITSUBISHI									

Figure 20. Proposal Report screen

## 2. OLSS application displays the report

This provide an explanation of how to OLSS application give a response to display the report.

- a. OLSS application receive a request from client (User) contains parameters
- b. The Request will be processed by a Controller. The Parameters will be stored on Session. The Controller returns View (cshtml) then calls WebForm (aspx)
- c. The next process, a report will be generated and rendered on the ReportViewer
- d. User can view the report on "Proposal Report" screen

## 3. Print the report

This provide explanation of how to print the report from ReportViewer.

- a. On "Proposal Report" screen click "Print" button

## Report Framework

Project	Operating Lease Support System Development		
Author	Setiyono	Date	15 Juni 2015
Status	Baseline	Version	1.0
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The screenshot shows the 'Operating Lease Proposal' screen. It includes fields for To (Mr. Qasry), From (NBO Dept - Operating Lease Section), Date (8-May-2015), No (00010CPN0105/2015), and Subject (Proposal for Operating Lease Quotation Submission). Below these are sections for Customer Data, PIC Data, and Submission Details. The Customer Data section shows KANGAR CONSOLIDATED INDUSTRIES PT as the new or repeat customer. The PIC Data section lists Achmad Fardani as the Marketing Officer. The Submission Details section shows the deadline as 8-May-2015.

Figure 21. Proposal Report screen

b. Please select available printer device, then print the report

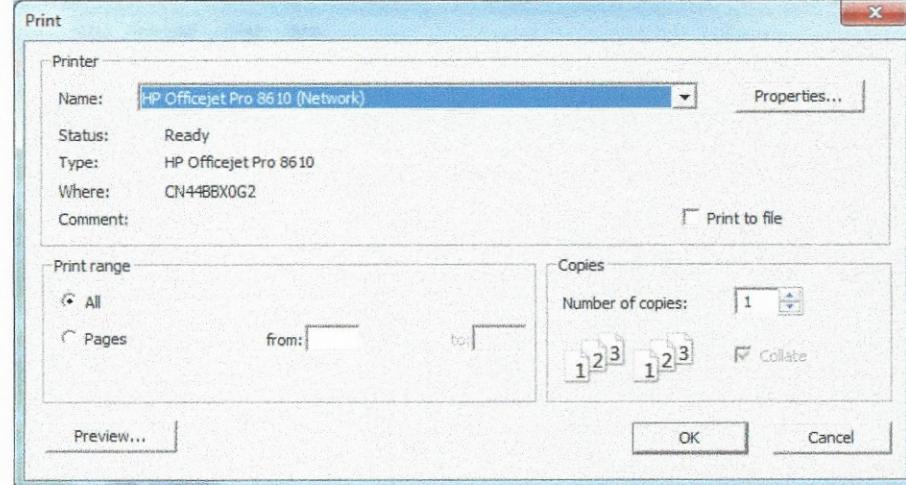


Figure 22. Select available printer device

## 4. Export the report

This provide explanation of how to export the report from ReportViewer. With this function We can save the report in Pdf or Excel format.

c. On "Proposal Report" screen click "Save" button

The screenshot shows the 'Operating Lease Proposal' screen with the 'Save' button highlighted in red. The form contains the same data as Figure 21, including customer information, PIC details, and submission parameters.

Figure 23. Click Save button

## Report Framework

Project	Operating Lease Support System Development		
Author	Setiyono	Date	15 Juni 2015
Status	Baseline	Version	1.0
Document	OS144028 - DSF OLSS - Report Framework Rev.1.0.doc	Page	Page 18 of 18

- d. Please select Pdf option if want to save as Pdf format or select Excel option if want to save as Excel format. Then save the report

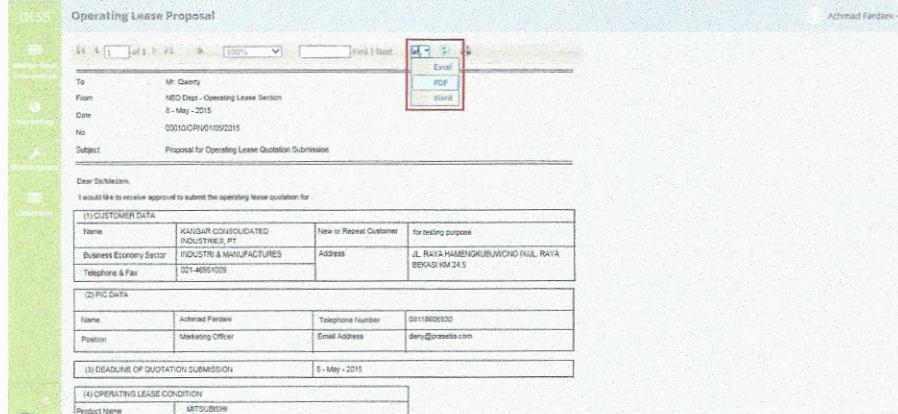


Figure 24. Select available format option

- e. Open the exported file(Pdf format) with Pdf viewer and make sure the report is correct

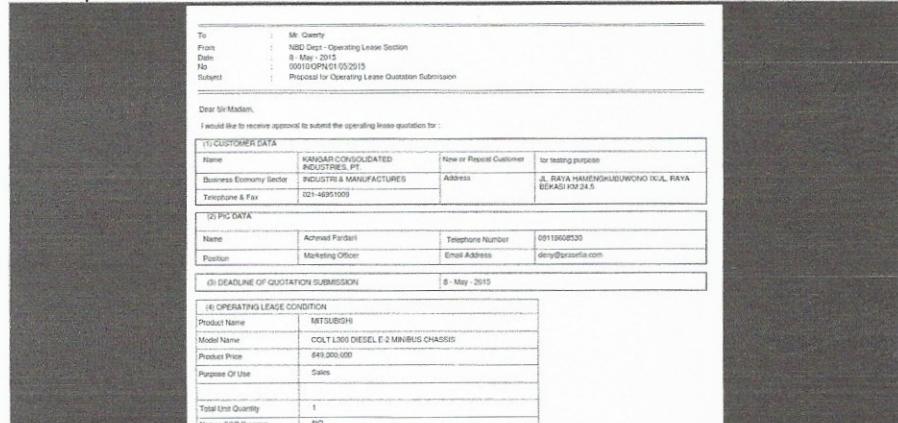


Figure 25. View of report with Pdf viewer

- f. Open the exported file(Excel format) with Excel viewer and make sure the report is correct

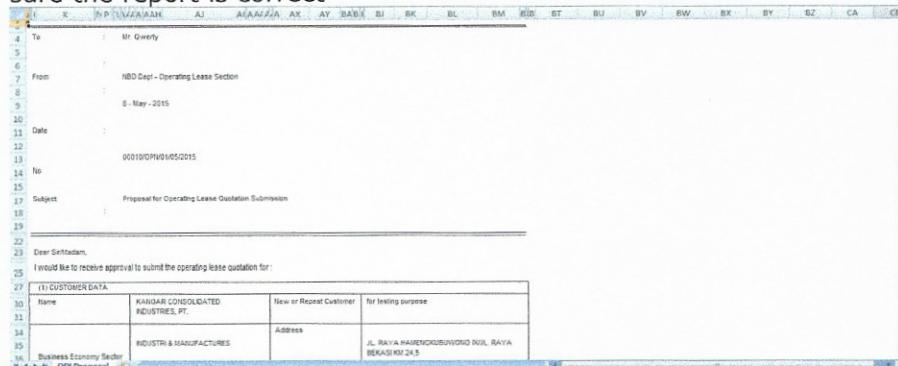


Figure 26. View of report with Excel viewer