



PT. BERLIAN SISTEM INFORMASI



OPERATING LEASE SUPPORT SYSTEM DEVELOPMENT

FOR



REPORT FRAMEWORK

Revision 1.0

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Report Framework			
Project	Operating Lease Support System Development		
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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.

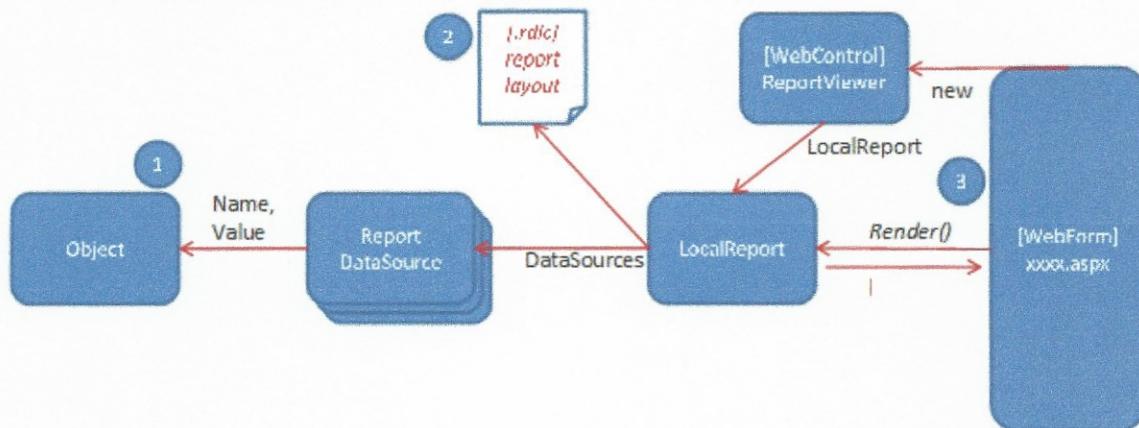


Figure 1. Flow of making report

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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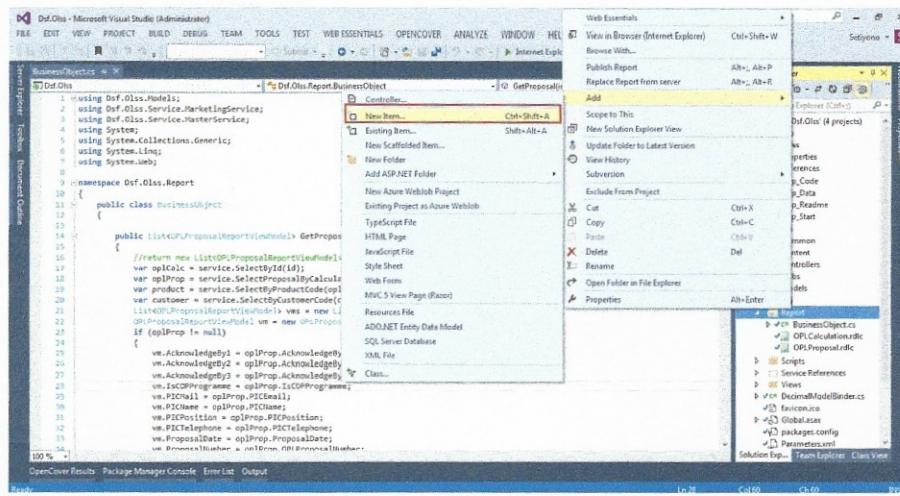


Figure 2. Add New Item

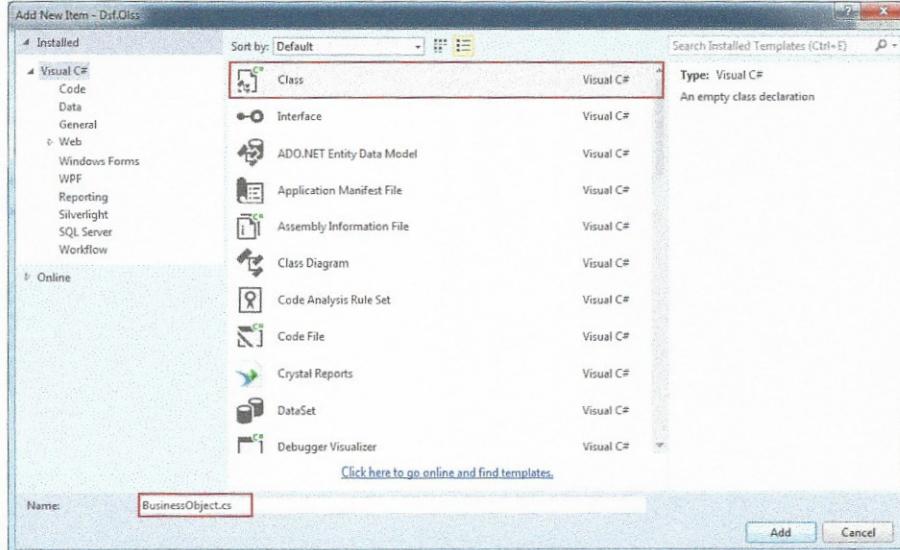


Figure 3. Create New Class

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.ProposeBy;
            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.CarrosarieDiscount = oplCalc.OPLBasicCondition.CarrosarieDiscount;
    vm.CarrosariePrice = oplCalc.OPLBasicCondition.CarrosariePrice;
    vm.CarrosariePriceTotal = oplCalc.OPLBasicCondition.CarrosariePriceTotal;
    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.KEURREneewalFee = oplCalc.OPLFinanceCondition.KIRRenewaFee.HasValue ?
(oplCalc.OPLFinanceCondition.KIRRenewaFee.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.

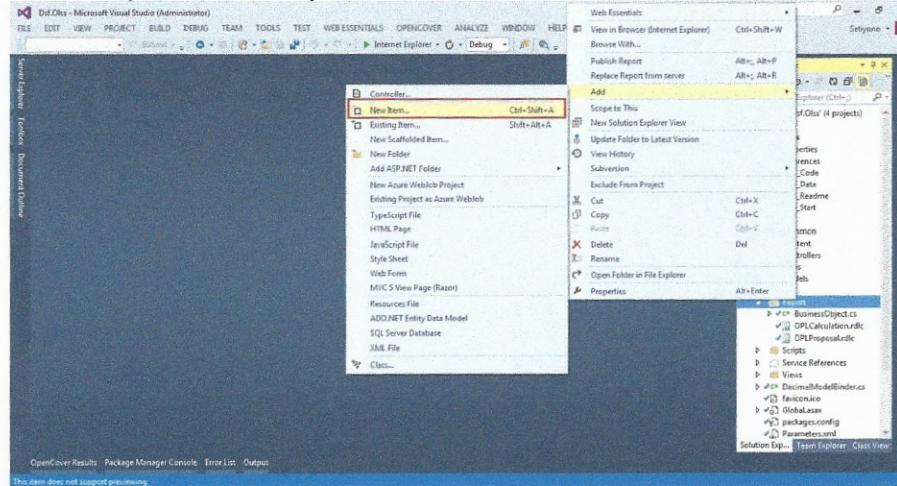


Figure 5. Add New Item

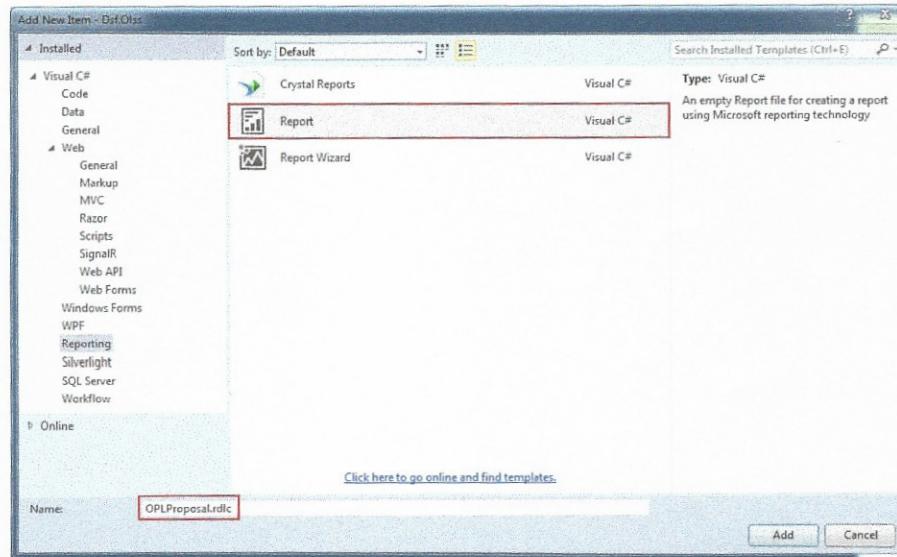


Figure 6. Create New RDLC Report

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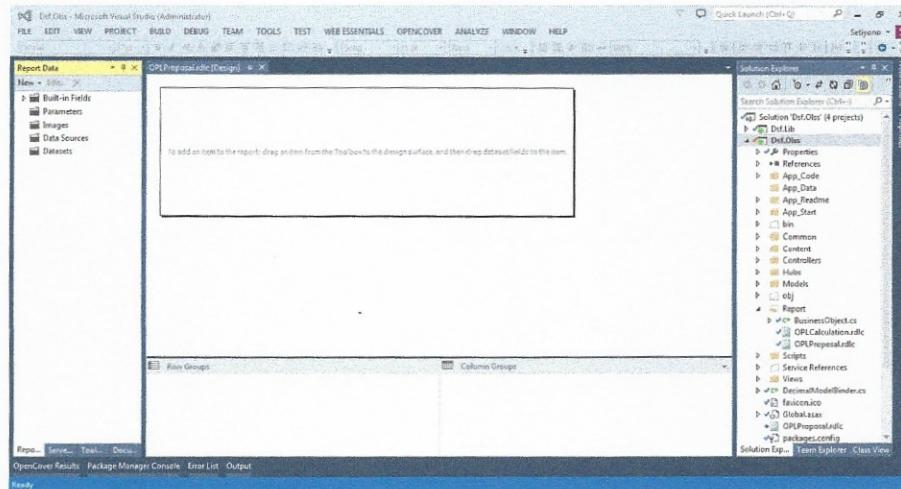


Figure 7. View of RDLC Report

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.

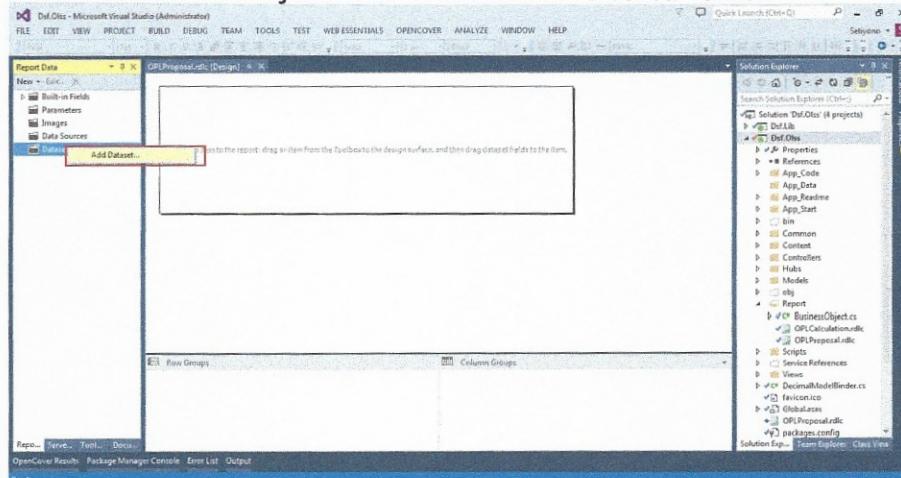


Figure 8. Right-click, then click Add Dataset

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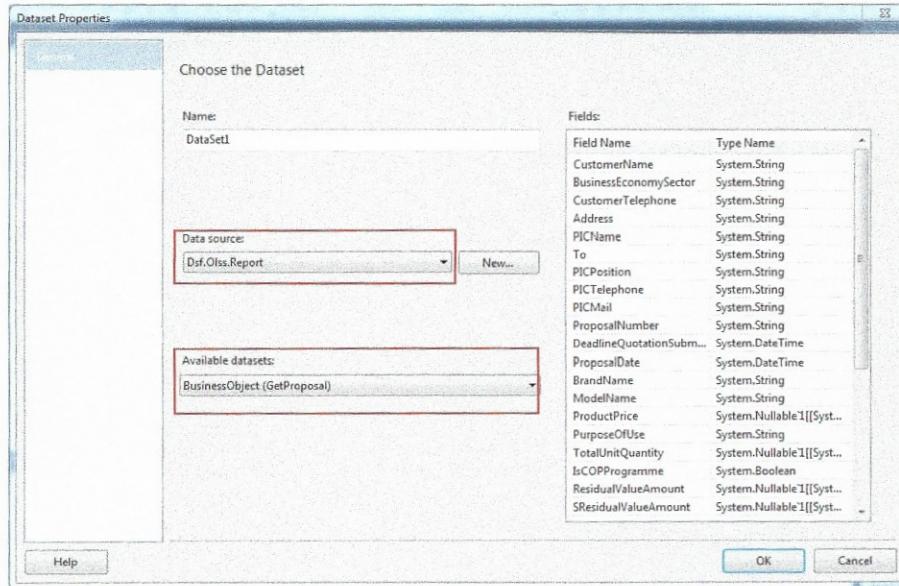


Figure 9. Determine Datasource

4. Designing Report

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

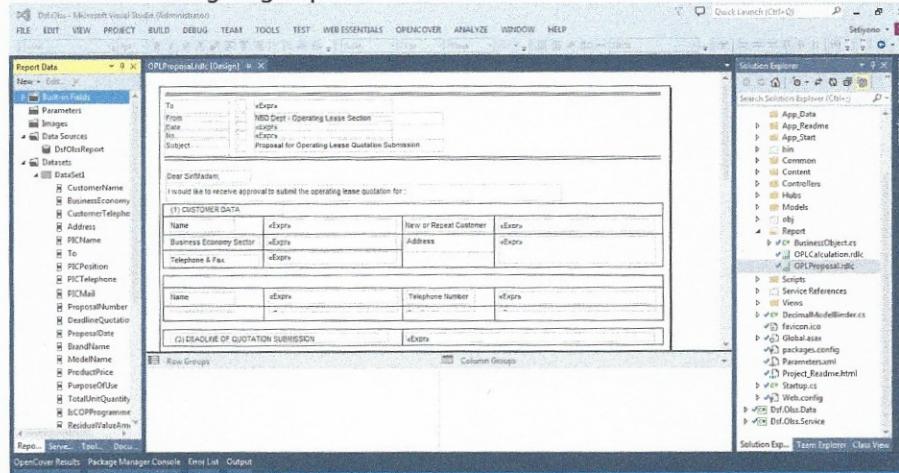


Figure 10. Designing layout report

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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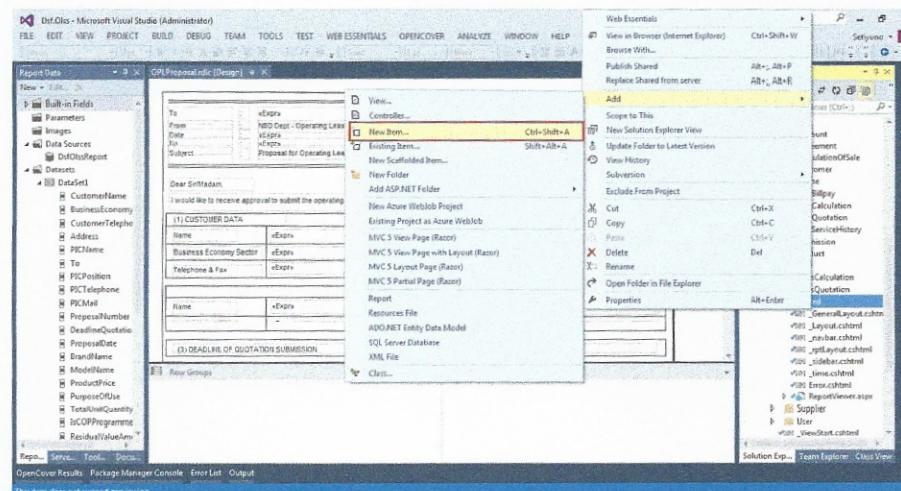


Figure 11. Add New Item

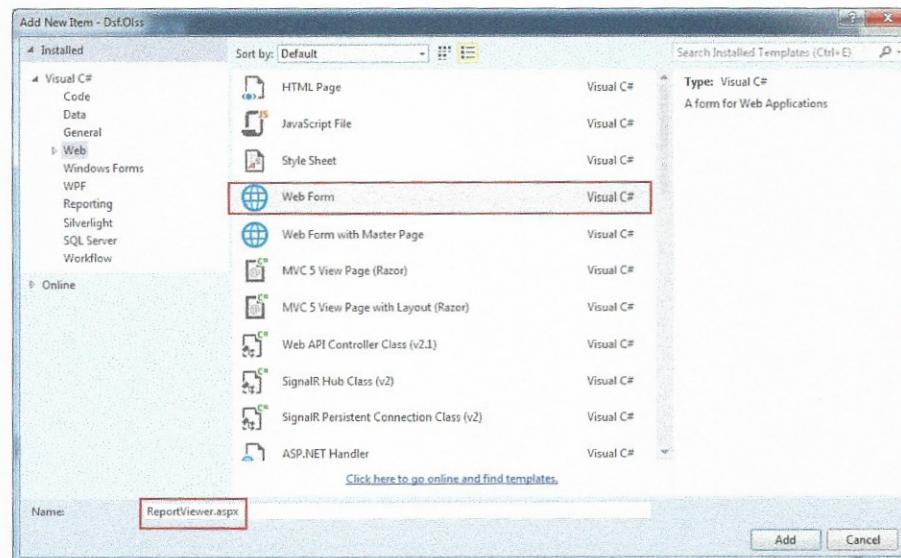


Figure 12. Create new WebForm

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

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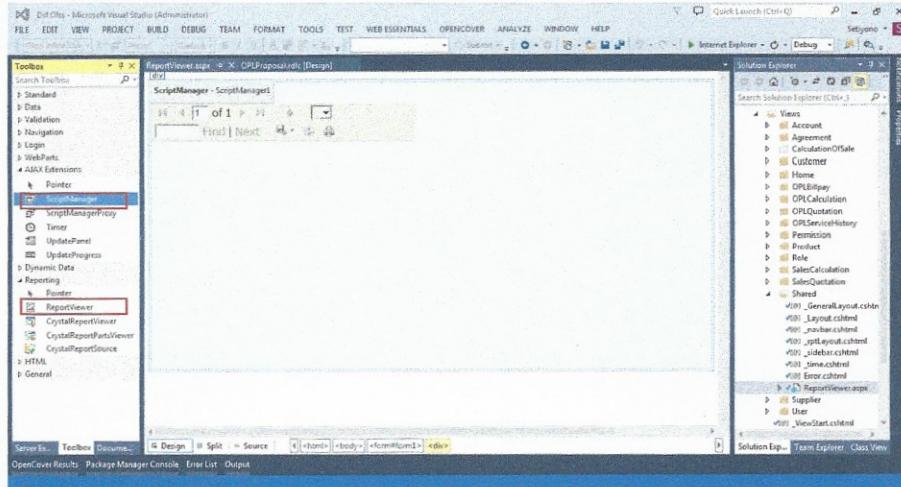


Figure 13. Add ScriptManager and ReportViewer to page

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=89845dcd8080cc91" 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=89845dcd8080cc91" Namespace="Microsoft.Reporting.WebForms" TagPrefix="rsweb"
%>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <script runat="server">
        void Page_Load(object sender, EventArgs e)
    {
```

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```

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();
}

protected void ReportViewer1_PreRender(object sender, EventArgs e)
{
    //Excel 2003
    VisibleExportFormat((ReportViewer)sender, "Excel", false);
    //Excel
    VisibleExportFormat((ReportViewer)sender, "EXCELOPENXML", true);
    //TIFF file
    VisibleExportFormat((ReportViewer)sender, "IMAGE", false);
    //PDF
    VisibleExportFormat((ReportViewer)sender, "PDF", true);
    //Word 2003
    VisibleExportFormat((ReportViewer)sender, "WORD", false);
    //Word
    VisibleExportFormat((ReportViewer)sender, "WORDOPENXML", false);
}

public void VisibleExportFormat(ReportViewer ReportViewerID, string strFormatName,
bool isVisible)
{
    System.Reflection.FieldInfo info;
    foreach (RenderingExtension extension in
ReportViewerID.LocalReport.ListRenderingExtensions())
    {
        if (extension.Name.Trim().ToUpper() == strFormatName.Trim().ToUpper())
        {
            info = extension.GetType().GetField("m_isVisible",
System.Reflection.BindingFlags.Instance | System.Reflection.BindingFlags.NonPublic);
            info.SetValue(extension, isVisible);
        }
    }
}
</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"
    OnPreRender="ReportViewer1_PreRender">
    <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.

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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

Bab 2. Regulation of Using Report

2.1 Introduction

Required a manual in using report on the OLSS application.

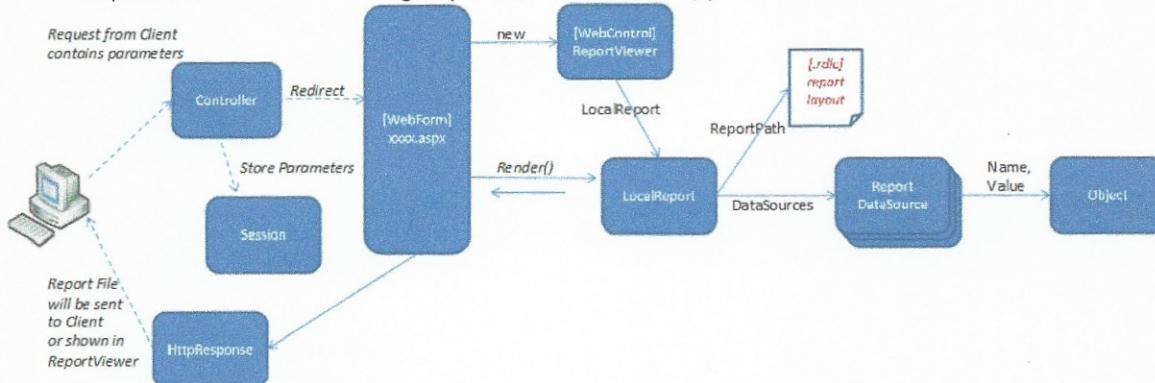


Figure 17. Flow of Using report

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

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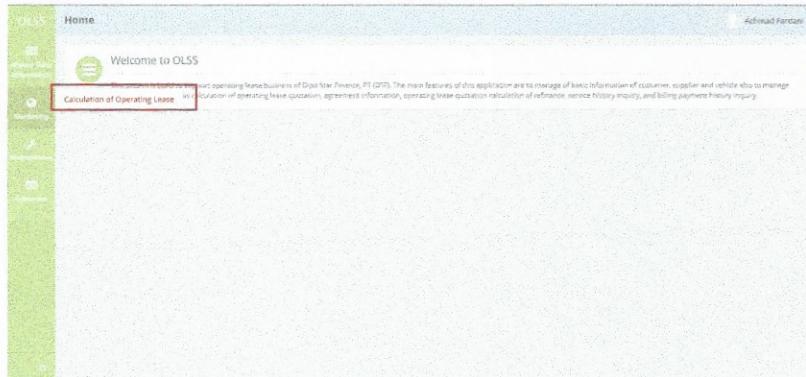


Figure 18. Menu Calculation Operating Lease

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

GPN	Calculation Number	Lease Category	Brand Name	Maintenance Type	Quantity	Monthly Installment	Created By	Create Date	Status	Action
00233-0124-01-05/2015	Unit	MITSUBISHI	Customer Service Dept		1	56,308,000	Achmed Farhan	5/9/2015	Active	
00235-05/01-01-05/2015	New	MITSUBISHI	Customer Service	Full Maintenance	5	22,125,000	Achmed Farhan	5/7/2015	Active	
00235-05/01-01-03/2015	New	MITSUBISHI	Customer Service	Full Maintenance	5	2,594,770,000	Achmed Farhan	5/7/2015	Active	
00234-05/01-01-03/2015	New	MITSUBISHI	Customer Service	Full Maintenance	0	0	Achmed Farhan	5/7/2015	Active	
00232-HCN/05/05/2015	New	MITSUBISHI	Customer Service	Full Maintenance	0	0	Achmed Farhan	5/7/2015	Active	
00232-HCN/01/05/2015	New	MITSUBISHI	Customer Service	Full Maintenance	0	0	Achmed Farhan	5/7/2015	Active	
00231-HCN/01-05/2015	New	MITSUBISHI	Customer Service	Full Maintenance	0	0	Achmed Farhan	5/7/2015	Active	

Figure 19. Calculation of Operating Lease screen

- d. "Proposal Report" screen will be displayed

To: Mr. Qwerty
From: IBD Dept - Operating Lease Section
Date: 8-May-2015
No: 00101CPM/05/2015
Subject: Proposal for Operating Lease Quotation Submission

Customer Data:
I would like to receive approval to submit the operating lease quotation for:

Name: KANGAN CONSOLIDATED INDUSTRIES PT.	New or Repeat Customer: For testing purpose
Business Economic Sector: INDUSTRIAL MANUFACTURES	Address: Jl. Raya Madiun-Pedurungan KM. 10, Raya
Telephone & Fax: 021-46610209	ZIP Code: 12140

PIC Data:
Name: Achmed Farhan
Telephone number: 0811399530
Position: Marketing Officer
Email Address: demy@rossella.com

Deadline of Quotation Submission: 8-May-2015

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.

- OLSS application receive a request from client (User) contains parameters
- The Request will be processed by a Controller. The Parameters will be stored on Session. The Controller returns View (cshtml) then calls WebForm (aspx)

Report Framework			
Project	Operating Lease Support System Development		
Author	Setiyono	Date	15 June 2015
Status	Baseline	Version	1.0
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- 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

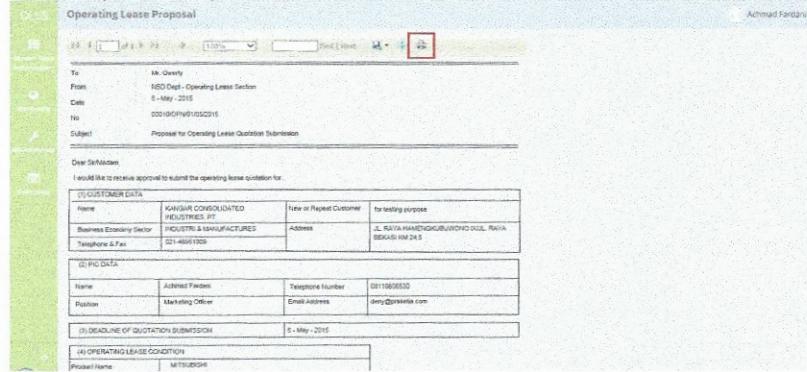


Figure 21. Proposal Report screen

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

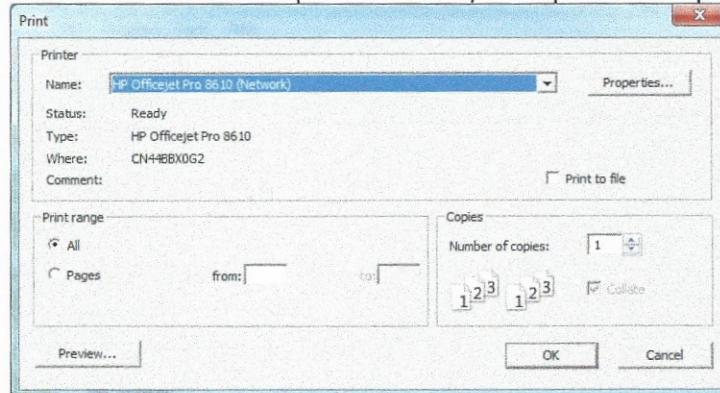


Figure 22. Select available printer device

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

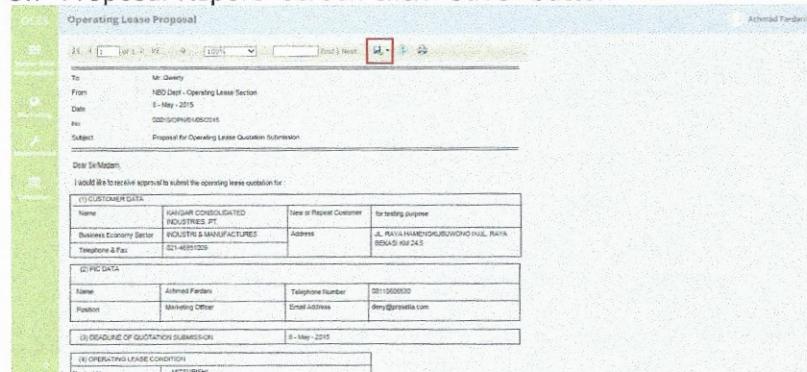


Figure 23. Click Save button

Report Framework			
Project	Operating Lease Support System Development		
Author	Setiyono	Date	15 June 2015
Status	Baseline	Version	1.0
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- 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

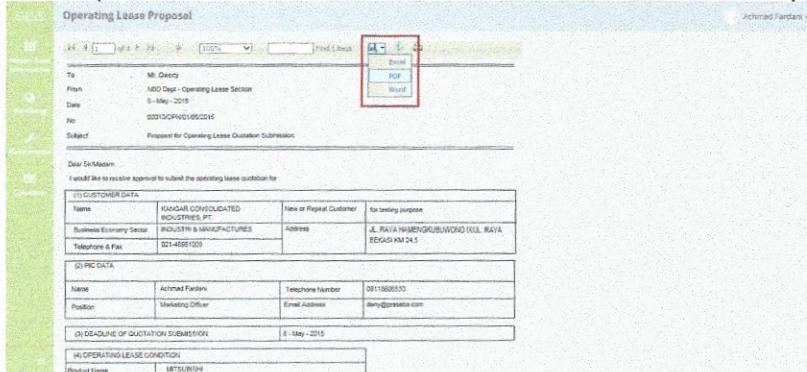


Figure 24. Select available format option

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

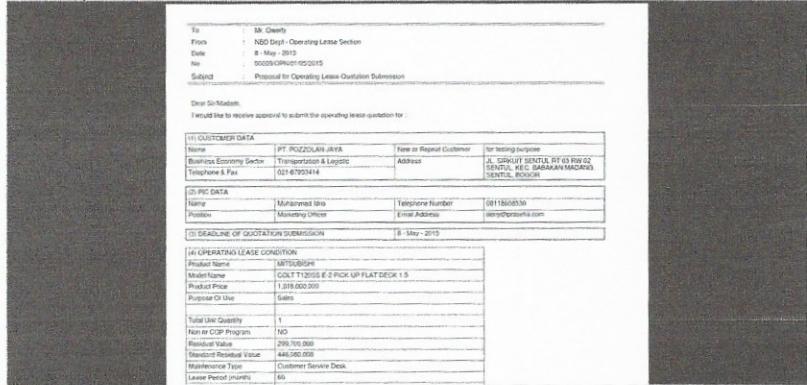


Figure 25. View of report with Pdf viewer

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

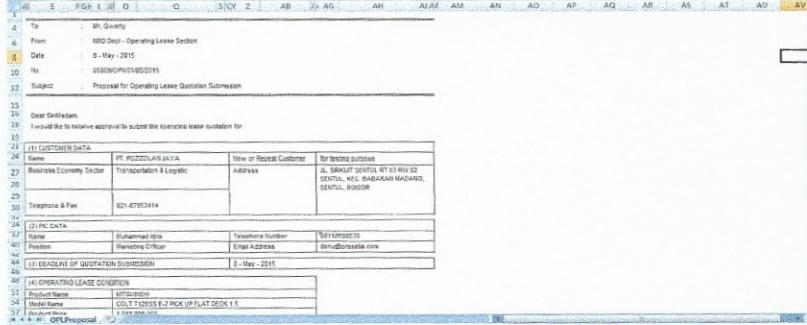


Figure 26. View of report with Excel viewer