**ФКПОУ «НТТИ» Минтруда России**

**ОТЧЕТ**

**о практической работе №7**

по МДК 01.02 (ПМ.01)

**Инструментальные средства разработки**

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**2018**

**Практическая работ №7**

**Тема 2.1** Общие понятия и назначение инструментальных средств разработки программного обеспечения

**Название работы:** Коммуникация и экспорт данных из приложений Windows Forms в MS Excel.

**Цель работы:** изучить технологию коммуникации с Com- серверами MS Office.

**Задание 1**

Доработать приложение для автоматизации деятельности библиотеки. Вывести в MSExcel все отчеты.

**Решение**

Изменим код обработчиков нажатия на ссылки:

Рейтинг книг:

private void linkLabel1\_LinkClicked(object sender, LinkLabelLinkClickedEventArgs e)

{

SqlConnection conn1 = new SqlConnection();

conn1.ConnectionString = connectionString;

conn1.Open();

SqlCommand cmd = conn1.CreateCommand();

cmd.CommandType = CommandType.StoredProcedure;

cmd.CommandText = "[REPORT\_1]";

cmd.Parameters.Add("@D1", SqlDbType.Date, 4);

cmd.Parameters["@D1"].Value = dateTimePicker4.Value;

cmd.Parameters.Add("@D2", SqlDbType.Date, 4);

cmd.Parameters["@D2"].Value = dateTimePicker5.Value;

SqlDataAdapter ReportAdapter = new SqlDataAdapter();

ReportAdapter.SelectCommand = cmd;

DataSet dsReport = new DataSet();

ReportAdapter.Fill(dsReport, "Report");

dataGridView5.DataSource = dsReport.Tables["Report"].DefaultView;

Microsoft.Office.Interop.Excel.Application ExcelApp = new Microsoft.Office.Interop.Excel.Application();

Microsoft.Office.Interop.Excel.Workbook ExcelWorkBook;

Microsoft.Office.Interop.Excel.Worksheet ExcelWorkSheet;

Microsoft.Office.Interop.Excel.Range ExcelCells;

ExcelWorkBook = ExcelApp.Workbooks.Add(System.Reflection.Missing.Value);

ExcelWorkSheet = (Microsoft.Office.Interop.Excel.Worksheet)ExcelWorkBook.Worksheets.get\_Item(1);

string d1 = dateTimePicker4.Value.Day.ToString() + "." + dateTimePicker4.Value.Month.ToString() + "." + dateTimePicker4.Value.Year.ToString();

string d2 = dateTimePicker5.Value.Day.ToString() + "." + dateTimePicker5.Value.Month.ToString() + "." + dateTimePicker5.Value.Year.ToString();

ExcelApp.Cells[1, 1] = "Рейтинг книг за период с " + d1 + " по " + d2;

for (int i = 0; i < dataGridView5.ColumnCount; i++)

{

ExcelApp.Cells[2, i + 1] = dataGridView5.Columns[i].HeaderCell.Value;

}

for (int i = 0; i < dataGridView5.Rows.Count; i++)

{

for (int j = 0; j < dataGridView5.ColumnCount; j++)

{

ExcelApp.Cells[i + 3, j + 1] = dataGridView5.Rows[i].Cells[j].Value;

}

}

int istr = dataGridView5.Rows.Count + 1;

ExcelCells = ExcelApp.Range[ExcelWorkSheet.Columns[2], ExcelWorkSheet.Columns[1]];

ExcelCells.EntireColumn.AutoFit();

ExcelCells = ExcelApp.Range[ExcelWorkSheet.Columns[1], ExcelWorkSheet.Columns[2]];

ExcelCells.HorizontalAlignment = Excel.Constants.xlLeft;

ExcelCells = ExcelApp.Range[ExcelWorkSheet.Cells[2, 1], ExcelWorkSheet.Cells[istr, 2]];

ExcelCells.Borders.LineStyle = Excel.XlLineStyle.xlContinuous;

ExcelCells.Borders.Weight = Excel.XlBorderWeight.xlThin;

ExcelApp.Visible = true;

ExcelApp.UserControl = true;

}

Рейтинг жанров

private void linkLabel2\_LinkClicked(object sender, LinkLabelLinkClickedEventArgs e)

{

SqlConnection conn1 = new SqlConnection();

conn1.ConnectionString = connectionString;

conn1.Open();

SqlCommand cmd = conn1.CreateCommand();

cmd.CommandType = CommandType.StoredProcedure;

cmd.CommandText = "[REPORT\_2]";

cmd.Parameters.Add("@D1", SqlDbType.Date, 4);

cmd.Parameters["@D1"].Value = dateTimePicker4.Value;

cmd.Parameters.Add("@D2", SqlDbType.Date, 4);

cmd.Parameters["@D2"].Value = dateTimePicker5.Value;

SqlDataAdapter ReportAdapter = new SqlDataAdapter();

ReportAdapter.SelectCommand = cmd;

DataSet dsReport = new DataSet();

ReportAdapter.Fill(dsReport, "Report");

dataGridView5.DataSource = dsReport.Tables["Report"].DefaultView;

Microsoft.Office.Interop.Excel.Application ExcelApp = new Microsoft.Office.Interop.Excel.Application();

Microsoft.Office.Interop.Excel.Workbook ExcelWorkBook;

Microsoft.Office.Interop.Excel.Worksheet ExcelWorkSheet;

Microsoft.Office.Interop.Excel.Range ExcelCells;

ExcelWorkBook = ExcelApp.Workbooks.Add(System.Reflection.Missing.Value);

ExcelWorkSheet = (Microsoft.Office.Interop.Excel.Worksheet)ExcelWorkBook.Worksheets.get\_Item(1);

string d1 = dateTimePicker4.Value.Day.ToString() + "." + dateTimePicker4.Value.Month.ToString() + "." + dateTimePicker4.Value.Year.ToString();

string d2 = dateTimePicker5.Value.Day.ToString() + "." + dateTimePicker5.Value.Month.ToString() + "." + dateTimePicker5.Value.Year.ToString();

ExcelApp.Cells[1, 1] = "Рейтинг жанров за период с " + d1 + " по " + d2;

for (int i = 0; i < dataGridView5.ColumnCount; i++)

{

ExcelApp.Cells[2, i + 1] = dataGridView5.Columns[i].HeaderCell.Value;

}

for (int i = 0; i < dataGridView5.Rows.Count; i++)

{

for (int j = 0; j < dataGridView5.ColumnCount; j++)

{

ExcelApp.Cells[i + 3, j + 1] = dataGridView5.Rows[i].Cells[j].Value;

}

}

int istr = dataGridView5.Rows.Count + 1;

ExcelCells = ExcelApp.Range[ExcelWorkSheet.Columns[2], ExcelWorkSheet.Columns[1]];

ExcelCells.EntireColumn.AutoFit();

ExcelCells = ExcelApp.Range[ExcelWorkSheet.Columns[1], ExcelWorkSheet.Columns[2]];

ExcelCells.HorizontalAlignment = Excel.Constants.xlLeft;

ExcelCells = ExcelApp.Range[ExcelWorkSheet.Cells[2, 1], ExcelWorkSheet.Cells[istr, 2]];

ExcelCells.Borders.LineStyle = Excel.XlLineStyle.xlContinuous;

ExcelCells.Borders.Weight = Excel.XlBorderWeight.xlThin;

ExcelApp.Visible = true;

ExcelApp.UserControl = true;

}

Рейтинг авторов :

private void linkLabel3\_LinkClicked(object sender, LinkLabelLinkClickedEventArgs e)

{

SqlConnection conn1 = new SqlConnection();

conn1.ConnectionString = connectionString;

conn1.Open();

SqlCommand cmd = conn1.CreateCommand();

cmd.CommandType = CommandType.StoredProcedure;

cmd.CommandText = "[REPORT\_3]";

cmd.Parameters.Add("@D1", SqlDbType.Date, 4);

cmd.Parameters["@D1"].Value = dateTimePicker4.Value;

cmd.Parameters.Add("@D2", SqlDbType.Date, 4);

cmd.Parameters["@D2"].Value = dateTimePicker5.Value;

SqlDataAdapter ReportAdapter = new SqlDataAdapter();

ReportAdapter.SelectCommand = cmd;

DataSet dsReport = new DataSet();

ReportAdapter.Fill(dsReport, "Report");

dataGridView5.DataSource = dsReport.Tables["Report"].DefaultView;

Microsoft.Office.Interop.Excel.Application ExcelApp = new Microsoft.Office.Interop.Excel.Application();

Microsoft.Office.Interop.Excel.Workbook ExcelWorkBook;

Microsoft.Office.Interop.Excel.Worksheet ExcelWorkSheet;

Microsoft.Office.Interop.Excel.Range ExcelCells;

ExcelWorkBook = ExcelApp.Workbooks.Add(System.Reflection.Missing.Value);

ExcelWorkSheet = (Microsoft.Office.Interop.Excel.Worksheet)ExcelWorkBook.Worksheets.get\_Item(1);

string d1 = dateTimePicker4.Value.Day.ToString() + "." + dateTimePicker4.Value.Month.ToString() + "." + dateTimePicker4.Value.Year.ToString();

string d2 = dateTimePicker5.Value.Day.ToString() + "." + dateTimePicker5.Value.Month.ToString() + "." + dateTimePicker5.Value.Year.ToString();

ExcelApp.Cells[1, 1] = "Рейтинг авторов за период с " + d1 + " по " + d2;

for (int i = 0; i < dataGridView5.ColumnCount; i++)

{

ExcelApp.Cells[2, i + 1] = dataGridView5.Columns[i].HeaderCell.Value;

}

for (int i = 0; i < dataGridView5.Rows.Count; i++)

{

for (int j = 0; j < dataGridView5.ColumnCount; j++)

{

ExcelApp.Cells[i + 3, j + 1] = dataGridView5.Rows[i].Cells[j].Value;

}

}

int istr = dataGridView5.Rows.Count + 1;

ExcelCells = ExcelApp.Range[ExcelWorkSheet.Columns[2], ExcelWorkSheet.Columns[1]];

ExcelCells.EntireColumn.AutoFit();

ExcelCells = ExcelApp.Range[ExcelWorkSheet.Columns[1], ExcelWorkSheet.Columns[2]];

ExcelCells.HorizontalAlignment = Excel.Constants.xlLeft;

ExcelCells = ExcelApp.Range[ExcelWorkSheet.Cells[2, 1], ExcelWorkSheet.Cells[istr, 2]];

ExcelCells.Borders.LineStyle = Excel.XlLineStyle.xlContinuous;

ExcelCells.Borders.Weight = Excel.XlBorderWeight.xlThin;

ExcelApp.Visible = true;

ExcelApp.UserControl = true;

}

Отчет о задолженностях:

private void linkLabel4\_LinkClicked(object sender, LinkLabelLinkClickedEventArgs e)

{

SqlConnection conn1 = new SqlConnection();

conn1.ConnectionString = connectionString;

conn1.Open();

SqlCommand cmd = conn1.CreateCommand();

cmd.CommandType = CommandType.StoredProcedure;

cmd.CommandText = "[REPORT\_4]";

cmd.Parameters.Add("@D1", SqlDbType.Date, 4);

cmd.Parameters["@D1"].Value = dateTimePicker4.Value;

cmd.Parameters.Add("@D2", SqlDbType.Date, 4);

cmd.Parameters["@D2"].Value = dateTimePicker5.Value;

SqlDataAdapter ReportAdapter = new SqlDataAdapter();

ReportAdapter.SelectCommand = cmd;

DataSet dsReport = new DataSet();

ReportAdapter.Fill(dsReport, "Report");

dataGridView5.DataSource = dsReport.Tables["Report"].DefaultView;

Microsoft.Office.Interop.Excel.Application ExApp = new Microsoft.Office.Interop.Excel.Application();

Microsoft.Office.Interop.Excel.Workbook ExcelWB;

Microsoft.Office.Interop.Excel.Worksheet ExcelWS;

Microsoft.Office.Interop.Excel.Range ExcelC;

ExcelWB = ExApp.Workbooks.Add(System.Reflection.Missing.Value);

ExcelWS = (Microsoft.Office.Interop.Excel.Worksheet)ExcelWB.Worksheets.get\_Item(1);

string d1 = dateTimePicker4.Value.Day.ToString() + "." + dateTimePicker4.Value.Month.ToString() + "." + dateTimePicker4.Value.Year.ToString();

string d2 = dateTimePicker5.Value.Day.ToString() + "." + dateTimePicker5.Value.Month.ToString() + "." + dateTimePicker5.Value.Year.ToString();

ExApp.Cells[1, 1] = "Отчет о задолженостях за период с " + d1 + " по " + d2;

for (int i = 0; i < dataGridView5.ColumnCount; i++)

{

ExApp.Cells[2, i + 1] = dataGridView5.Columns[i].HeaderCell.Value;

}

for (int i = 0; i < dataGridView5.Rows.Count; i++)

{

for (int j = 0; j < dataGridView5.ColumnCount; j++)

{

ExApp.Cells[i + 3, j + 1] = dataGridView5.Rows[i].Cells[j].Value;

}

}

int istr = dataGridView5.Rows.Count + 1;

ExcelC = ExApp.Range[ExcelWS.Columns[1], ExcelWS.Columns[5]];

ExcelC.EntireColumn.AutoFit();

ExcelC = ExApp.Range[ExcelWS.Columns[1], ExcelWS.Columns[5]];

ExcelC.HorizontalAlignment = Excel.Constants.xlLeft;

ExcelC = ExApp.Range[ExcelWS.Cells[2, 1], ExcelWS.Cells[istr, 5]];

ExcelC.Borders.LineStyle = Excel.XlLineStyle.xlContinuous;

ExcelC.Borders.Weight = Excel.XlBorderWeight.xlThin;

ExApp.Visible = true;

ExApp.UserControl = true;

}

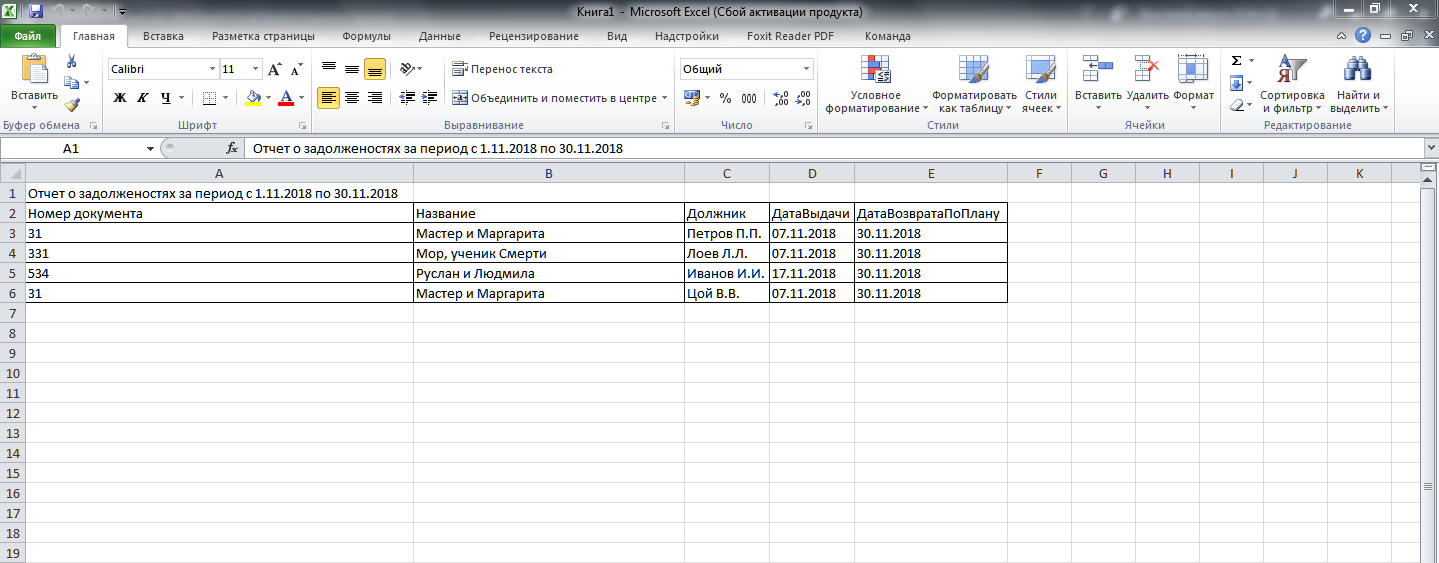


Рисунок 2 – Вывод отчетов