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using DevExpress.ClipboardSource.SpreadsheetML;
using DevExpress.DataAccess;
using DevExpress.DataAccess.ObjectBinding;
using DevExpress.Entity.ProjectModel;
using DevExpress.XtraPrinting.Native;
using DevExpress.XtraReports;
using DevExpress.XtraReports.UI;
using Meditech.App.CommonService.ViewModels;
using Meditech.Core.Common.DbContexts.Sale;
using Meditech.Core.Common.DBModels;
using Meditech.Core.Common.Repositories;
using Meditech.Core.Common.Services;
using Meditech.Lib.CommonShare;
using Meditech.Lib.Share.CommonClass;
using Microsoft.Data.SqlClient;
using Microsoft.EntityFrameworkCore;
using Microsoft.Extensions.Options;
using System.Collections;
using System.Data;
using System.Reflection;
using System.Text.RegularExpressions;

namespace Meditech.App.CommonService.Services
{
    public interface IReportService
    {
        ReportPreviewModel GetReportPreview(Guid requestId);
        ReturnCode CreatePrinter(PrinterViewModel model, Guid UserId);
    }

    public class ReportService : IReportService
    {
        private readonly ILogger<ReportService> _logger;
        private readonly IPrintRequestRepository _printRequestRepository;
        private CommonUnitOfWork _unitOfWork;
        private readonly DbContextOptions<SaleDbContext> _dbOptionSale;
        private readonly IDBConnectServices _dBConnectServices;
        string _urlPrinter = "";
        private readonly IDonHangKhamSucKhoeRepository _donHangKhamSucKhoeRepository;
        private readonly IPhuongAnKinhDoanhKskRepository _phuongAnKinhDoanhKskRepository;
        private readonly IDonKSKData _donKSKData;

        public ReportService(ILogger<ReportService> logger,
            IPrintRequestRepository printRequestRepository,
            IConfiguration configuration,
            IOptions<HostConfig> options,
            CommonUnitOfWork unitOfWork,
            IDBConnectServices dBConnectServices,
            IDonHangKhamSucKhoeRepository donHangKhamSucKhoeRepository,
            IPhuongAnKinhDoanhKskRepository phuongAnKinhDoanhKskRepository,
            IDonKSKData donKSKData)
        {
            string dbConnSale = configuration.GetConnectionString("SaleDatabase") ?? "";
            _dbOptionSale = new DbContextOptionsBuilder<SaleDbContext>().UseSqlServer(dbConnSale).Options;
            _urlPrinter = options.Value.UrlPrinter;
            _logger = logger;
            _printRequestRepository = printRequestRepository;
            _unitOfWork = unitOfWork;
            _dBConnectServices = dBConnectServices;
            _donHangKhamSucKhoeRepository = donHangKhamSucKhoeRepository;
            _phuongAnKinhDoanhKskRepository = phuongAnKinhDoanhKskRepository;
            _donKSKData = donKSKData;
        }

        public ReportPreviewModel GetReportPreview(Guid requestId)
        {
            _logger.LogDebug($"GetReportPreview req={requestId}");
            ReportPreviewModel ret = new ReportPreviewModel();
            var req = _printRequestRepository.GetById(requestId);
            if (req == null)
            {
                _logger.LogWarning($"GetReportPreview req={requestId} not found");
                ret.IsSuccess = false;
                ret.ErrorMsg = "Yêu cầu không hợp lệ, xin vui lòng thao tác lại";
                return ret;
            }
            if (req.HieuLucDen.HasValue &&
                req.HieuLucDen.Value < DateTime.UtcNow)
            {
                _logger.LogWarning($"GetReportPreview req={requestId} expired");
                ret.IsSuccess = false;
                ret.ErrorMsg = "Yêu cầu đã quá thời gian cho phép, xin vui lòng thao tác lại";
                return ret;
            }

            ret.IsSuccess = true;
            ret.ReportModel = CreateXtraReport(req);

            if (ret.ReportModel == null)
            {
                _logger.LogWarning($"GetReportPreview req={requestId} not found");
                ret.IsSuccess = false;
                ret.ErrorMsg = "Không tìm thấy mẫu in";
                return ret;
            }
            _logger.LogInformation($"GetReportPreview req={requestId} success");
            return ret;
        }

        public XtraReport CreateXtraReport(PrintRequest mauin)
        {
            //Lấy ct
            int ct = 2;
            if (mauin.Tenmauin == null)
            {
                return null;
            }
        }
    }
}

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//Get bytes from XtraReport to XML file
if (mauin.DesignData == null)
{
    var _tempRpt = Activator.CreateInstance(Type.GetType($"Meditech.App.CommonService.Reports.{mauin.Tenmauin}"));
    mauin.DesignData = GetByteXtraReport((XtraReport)_tempRpt);
}

//Get Xtrareport from XML file
XtraReport _rptReport = XtraReport.FromXmlFile(CreateXmlFileFromBytes(mauin.Id.ToString(), mauin.DesignData));
foreach (var param in _rptReport.Parameters) param.Visible = false;

if (_rptReport.Parameters["soyte"] != null)
{
    _rptReport.Parameters["soyte"].Value = "SỞ Y TẾ THANH HÓA";
}
if (_rptReport.Parameters["tendonvi"] != null)
{
    _rptReport.Parameters["tendonvi"].Value = "Tập đoàn Medipha";
}
if (_rptReport.Parameters["ngayin"] != null)
{
    _rptReport.Parameters["ngayin"].Value = DateTime.Now;
}
if (_rptReport.Parameters["ct"] != null)
{
    _rptReport.Parameters["ct"].Value = ct;
}

//Get param data
if (mauin.Tenmauin == "rptPhieuThu" || mauin.Tenmauin == "rptPhieuChi")
{
    var data = getParamThuChi(mauin);

    foreach (PropertyInfo propertyInfo in data.GetType().GetProperties())
    {
        if (_rptReport.Parameters[propertyInfo.Name] != null)
            _rptReport.Parameters[propertyInfo.Name].Value = propertyInfo.GetValue(data);
    }
}
else
{
    if (mauin.Param + "" != "")
    {
        List<ParamMauIn> lstParamMauIn = new List<ParamMauIn>();
        string[] arr1 = mauin.Param.Split(",");

        foreach (var item1 in arr1)
        {
            ParamMauIn paramMauIn = new ParamMauIn();
            // Biểu thức chính quy tìm kiếm tất cả các chuỗi nằm giữa dấu ngoặc kép
            var regex = new Regex(@"\"([^\"]*)\"");
            var matches = regex.Matches(item1);
            if (matches.Count == 2)
            {
                paramMauIn.ParamName = matches[0].Groups[1].Value;
                paramMauIn.ParamValue = matches[1].Groups[1].Value;
            }
            if (paramMauIn != null)
            {
                lstParamMauIn.Add(paramMauIn);
            }
        }

        foreach (var item in _rptReport.Parameters)
        {
            if (item.Name + "" != "")
            {
                ParamMauIn x1 = lstParamMauIn.Where(x => x.ParamName == item.Name).FirstOrDefault();
                if (x1 != null)
                {
                    item.Value = x1.ParamValue;
                }
            }
        }

        if (mauin.Tenmauin == "DonKSK.rptDonKSK")
        {
            _rptReport.DataSource = _donKSKData.GetDonHang((Guid)_rptReport.Parameters[0].Value);
        }
    }
}

return _rptReport;
}
public static byte[] GetByteXtraReport(XtraReport report)
{
    using (MemoryStream stream = new MemoryStream())
    {
        report.SaveLayoutToXml(stream);
        return stream.ToArray();
    }
}
public static string CreateXmlFileFromBytes(string id, byte[]? reportData)
{
    if (reportData == null || reportData.Length < 1) return "";
    string saveFolder = Path.Combine(TempDirectory, "tmp", "report-design");
    if (!Directory.Exists(saveFolder))
    {
        Directory.CreateDirectory(saveFolder);
    }
    string tempFilePath = Path.Combine(saveFolder, id.ToString() + ".xml");
    if (File.Exists(tempFilePath)) File.Delete(tempFilePath);
    File.WriteAllBytes(tempFilePath, reportData);
    return tempFilePath;
}
public ReturnCode CreatePrinter(PrinterViewModel o, Guid UserId)
{

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ReturnCode ret = new ReturnCode();

if (o == null || string.IsNullOrEmpty(o.TenMauIn))
{
    ret.Code = ErrorCode.HasError;
    ret.Description = "Mẫu in không đúng";
    return ret;
}

var p = _printRequestRepository.GetAll().Where(w => w.Tenmauin == o.TenMauIn &&
                                                    w.Idphieu == o.IdPhieu &&
                                                    w.Nguoitaoid == UserId.ToString() &&
                                                    w.Loaiphieu == o.LoiPhieu);

if (p.Count() > 0)
{
    var print = p.FirstOrDefault();

    if (print.Hieulucden > DateTime.UtcNow)
    {
        ret.Description = $"{_urlPrinter}?reqId={print.Id.ToString().ToUpper()}";
        return ret;
    }
    _printRequestRepository.DeleteMultiple(p.ToList());
}

Guid guid = Guid.NewGuid();
_printRequestRepository.Insert(new PrintRequest()
{
    Id = guid,
    LoaiPhieu = o.LoiPhieu,
    Tenmauin = o.TenMauIn,
    Sophieu = o.SoPhieu,
    Idphieu = o.IdPhieu,
    Thoigiantao = DateTime.UtcNow,
    Hieuluctu = DateTime.UtcNow,
    Hieulucden = DateTime.UtcNow.AddMinutes(5),
    Nguoitaoid = UserId.ToString(),
    Param = o.Param + "",
});

_unitOfWork.Save();

ret.Description = $"{_urlPrinter}?reqId={guid}";
return ret;
}

ParamThuChi getParamThuChi(PrintRequest mauin)
{
    List<SqlParameter> ps = new List<SqlParameter>();
    ps.Add(new SqlParameter { ParameterName = "mathuchi", SqlDbType = SqlDbType.Int, Value = mauin.Idphieu });

    ps.Add(new SqlParameter { ParameterName = "maloi", SqlDbType = SqlDbType.Int, Value = 0, Size = 8, Direction = ParameterDirection.Output });
    ps.Add(new SqlParameter { ParameterName = "tenloi", SqlDbType = SqlDbType.NVarChar, Value = "", Size = 4000, Direction = ParameterDirection.Output });

    SqlParameter[] pr = ps.ToArray();
    ObjectReturnCode<DataTable> retDt = _dbConnectServices.DBGetDataTableStored(_dbOption: _dbOptionSale, storename: "[getPrintThuChi]", param: pr);

    var obj = new ParamThuChi();
    if (retDt.IsOk)
    {
        if (retDt.Data != null && retDt.Data.Rows.Count > 0)
        {
            foreach (PropertyInfo propertyInfo in obj.GetType().GetProperties())
            {
                if (propertyInfo.PropertyType == typeof(System.Int32))
                {
                    propertyInfo.SetValue(obj, System.Int32.Parse(retDt.Data.Rows[0][propertyInfo.Name].ToString()));
                }
                else if (propertyInfo.PropertyType == typeof(int))
                {
                    propertyInfo.SetValue(obj, int.Parse(retDt.Data.Rows[0][propertyInfo.Name].ToString()));
                }
                else if (propertyInfo.PropertyType == typeof(decimal))
                {
                    propertyInfo.SetValue(obj, decimal.Parse(retDt.Data.Rows[0][propertyInfo.Name].ToString()));
                }
                else if (propertyInfo.PropertyType == typeof(DateTime))
                {
                    propertyInfo.SetValue(obj, DateTime.Parse(retDt.Data.Rows[0][propertyInfo.Name].ToString()));
                }
                else
                {
                    propertyInfo.SetValue(obj, retDt.Data.Rows[0][propertyInfo.Name].ToString());
                }
            }
        }
    }

    return obj;
}

ParamThuChi getParamBaoCaoDoanhThu(PrintRequest mauin)
{
    List<SqlParameter> ps = new List<SqlParameter>();
    ps.Add(new SqlParameter { ParameterName = "mathuchi", SqlDbType = SqlDbType.Int, Value = mauin.Idphieu });

    ps.Add(new SqlParameter { ParameterName = "maloi", SqlDbType = SqlDbType.Int, Value = 0, Size = 8, Direction = ParameterDirection.Output });
    ps.Add(new SqlParameter { ParameterName = "tenloi", SqlDbType = SqlDbType.NVarChar, Value = "", Size = 4000, Direction = ParameterDirection.Output });

    SqlParameter[] pr = ps.ToArray();
    ObjectReturnCode<DataTable> retDt = _dbConnectServices.DBGetDataTableStored(_dbOption: _dbOptionSale, storename: "[getPrintThuChi]", param: pr);

    var obj = new ParamThuChi();
    if (retDt.IsOk)
    {
        if (retDt.Data != null && retDt.Data.Rows.Count > 0)
        {

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        foreach (PropertyInfo propertyInfo in obj.GetType().GetProperties())
        {
            if (propertyInfo.PropertyType == typeof(System.Int32))
            {
                propertyInfo.SetValue(obj, System.Int32.Parse(retDt.Data.Rows[0][propertyInfo.Name].ToString()));
            }
            else if (propertyInfo.PropertyType == typeof(int))
            {
                propertyInfo.SetValue(obj, int.Parse(retDt.Data.Rows[0][propertyInfo.Name].ToString()));
            }
            else if (propertyInfo.PropertyType == typeof(decimal))
            {
                propertyInfo.SetValue(obj, decimal.Parse(retDt.Data.Rows[0][propertyInfo.Name].ToString()));
            }
            else if (propertyInfo.PropertyType == typeof(DateTime))
            {
                propertyInfo.SetValue(obj, DateTime.Parse(retDt.Data.Rows[0][propertyInfo.Name].ToString()));
            }
            else
            {
                propertyInfo.SetValue(obj, retDt.Data.Rows[0][propertyInfo.Name].ToString());
            }
        }
    }
}

return obj;
}

public static string TempDirectory
{
    get
    {
        return Path.Combine(Path.GetTempPath(), "QuayThuocV2");
    }
}
}

public class ParamThuChi
{
    public int mathuchi { get; set; }
    public string sophieu { get; set; } = "1";
    public string ngay { get; set; } = "2";
    public string sohoaddon { get; set; } = "";
    public decimal sotien { get; set; }
    public string noidung { get; set; } = "";
    public string hinhthuctt { get; set; } = "";
    public string lydotc { get; set; } = "";
    public string hoten { get; set; } = "";
    public string bangchu { get; set; } = "";
    public string ngayin { get; set; } = "";
}

public class ParamMauIn
{
    public string ParamName { get; set; }
    public string ParamValue { get; set; }
}
}

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