```
using System;
using System.Collections.Generic;
using System.Linq;
using Medical;
using Medical.DTO.Cms1500;

namespace Medical.Model.Common
{
    public static class MedicalDTOParser
    {
        public static Cms1500FormDTO ParseDTO(CMS1500Form model)
        {
            if (model == null) return null;

            return new Cms1500FormDTO
            {
                FormId = model.FormId,
                InsuranceProgram = model.InsuranceProgram,
                InsuredIdNumber = model.InsuredIdNumber,
                Patient = ParseDTO(model.Patient),
                Insured = ParseDTO(model.Insured),
                OtherInsurance = ParseDTO(model.OtherInsurance),
                ConditionRelated = ParseDTO(model.ConditionRelated),
                DiagnosisCodes = model.DiagnosisCodes.Select(ParseDTO).ToList(),
                ServiceLines = model.ServiceLines.Select(ParseDTO).ToList(),
                BillingProvider = ParseDTO(model.BillingProvider),
                ServiceFacility = ParseDTO(model.ServiceFacility),
                TotalCharge = model.TotalCharge,
                AmountPaid = model.AmountPaid,
                PatientSignatureDate = model.PatientSignatureDate,
                PhysicianSignatureDate = model.PhysicianSignatureDate,
                CreatedDate = model.CreatedDate
            };
        }

        public static PatientInfoDTO ParseDTO(PatientInfo model)
        {
            if (model == null) return null;

            return new PatientInfoDTO
            {
                LastName = model.LastName,
                FirstName = model.FirstName,
                BirthDate = model.BirthDate,
        Sex = model.Sex,
        Address = ParseDTO(model.Address),
        RelationshipToInsured = model.RelationshipToInsured
    };
}

public static Cms1500AddressDTO ParseDTO(Address model)
{
    if (model == null) return null;

    return new Cms1500AddressDTO
    {
        Street = model.Street,
        City = model.City,
        State = model.State,
        ZipCode = model.ZipCode,
        Phone = model.Phone
    };
}

public static InsuredInfoDTO ParseDTO(InsuredInfo model)
{
    if (model == null) return null;

    return new InsuredInfoDTO
    {
        LastName = model.LastName,
        FirstName = model.FirstName,
        Address = ParseDTO(model.Address),
        GroupNumber = model.GroupNumber
    };
}

public static OtherInsuranceInfoDTO ParseDTO(OtherInsuranceInfo model)
{
    if (model == null) return null;

    return new OtherInsuranceInfoDTO
    {
        PolicyHolderName = model.PolicyHolderName,
        PolicyNumber = model.PolicyNumber,
        PlanName = model.PlanName
    };
}
```

```
public static ConditionRelatedDTO ParseDTO(ConditionRelated model)
{
    if (model == null) return null;

    return new ConditionRelatedDTO
    {
        Employment = model.Employment,
        AutoAccident = model.AutoAccident,
        OtherAccident = model.OtherAccident,
        AccidentState = model.AccidentState
    };
}

public static DiagnosisCodeDTO ParseDTO(DiagnosisCode model)
{
    if (model == null) return null;

    return new DiagnosisCodeDTO
    {
        Code = model.Code,
        Priority = model.Priority
    };
}

public static ServiceLineDTO ParseDTO(ServiceLine model)
{
    if (model == null) return null;

    return new ServiceLineDTO
    {
        ServiceStartDate = model.ServiceStartDate,
        ServiceEndDate = model.ServiceEndDate,
        ProcedureCode = model.ProcedureCode,
        Modifier = model.Modifier,
        DiagnosisPointer = model.DiagnosisPointer,
        Charge = model.Charge,
        RenderingProviderId = model.RenderingProviderId
    };
}

public static ProviderInfoDTO ParseDTO(ProviderInfo model)
{
    if (model == null) return null;
```

```
            return new ProviderInfoDTO
            {
                Name = model.Name,
                FederalTaxId = model.FederalTaxId,
                Address = ParseDTO(model.Address),
                NpiNumber = model.NpHNumber, // Maps model's NpHNumber to DTO's NpiNumber
                Phone = model.Phone
            };
        }
    }
}
```