

```

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

namespace Medical.Model.Common
{
    public static class MedicalModelParser
    {
        public static void ParseModel(CMS1500Form model, Cms1500FormDTO dto)
        {
            if (dto == null) return;

            model.FormId = dto.FormId;
            model.InsuranceProgram = dto.InsuranceProgram;
            model.InsuredIdNumber = dto.InsuredIdNumber;

            ParseModel(model.Patient, dto.Patient ?? new PatientInfoDTO());
            ParseModel(model.Insured, dto.Insured ?? new InsuredInfoDTO());
            ParseModel(model.OtherInsurance, dto.OtherInsurance);
            ParseModel(model.ConditionRelated, dto.ConditionRelated ?? new
            ConditionRelatedDTO());

            model.DiagnosisCodes.Clear();
            if (dto.DiagnosisCodes != null)
            {
                foreach (var diagnosisDto in dto.DiagnosisCodes)
                {
                    var diagnosisModel = new DiagnosisCode();
                    ParseModel(diagnosisModel, diagnosisDto);
                    model.DiagnosisCodes.Add(diagnosisModel);
                }
            }

            model.ServiceLines.Clear();
            if (dto.ServiceLines != null)
            {
                foreach (var serviceLineDto in dto.ServiceLines)
                {
                    var serviceLineModel = new ServiceLine();
                    ParseModel(serviceLineModel, serviceLineDto);
                    model.ServiceLines.Add(serviceLineModel);
                }
            }
        }
    }
}

```

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ParseModel(model.BillingProvider, dto.BillingProvider ?? new ProviderInfoDTO());
ParseModel(model.ServiceFacility, dto.ServiceFacility ?? new ProviderInfoDTO());

model.TotalCharge = dto.TotalCharge;
model.AmountPaid = dto.AmountPaid;
model.PatientSignatureDate = dto.PatientSignatureDate;
model.PhysicianSignatureDate = dto.PhysicianSignatureDate;
model.CreatedDate = dto.CreatedDate;
}

public static void ParseModel(PatientInfo model, PatientInfoDTO dto)
{
    if (dto == null) return;

    model.LastName = dto.LastName;
    model.FirstName = dto.FirstName;
    model.BirthDate = dto.BirthDate;
    model.Sex = dto.Sex;
    ParseModel(model.Address, dto.Address ?? new Cms1500AddressDTO());
    model.RelationshipToInsured = dto.RelationshipToInsured;
}

public static void ParseModel(Address model, Cms1500AddressDTO dto)
{
    if (dto == null) return;

    model.Street = dto.Street;
    model.City = dto.City;
    model.State = dto.State;
    model.ZipCode = dto.ZipCode;
    model.Phone = dto.Phone;
}

public static void ParseModel(InsuredInfo model, InsuredInfoDTO dto)
{
    if (dto == null) return;

    model.LastName = dto.LastName;
    model.FirstName = dto.FirstName;
    ParseModel(model.Address, dto.Address ?? new Cms1500AddressDTO());
    model.GroupNumber = dto.GroupNumber;
}

```

```
public static void ParseModel(OtherInsuranceInfo model, OtherInsuranceInfoDTO dto)
{
    if (dto == null) return;

    model.PolicyHolderName = dto.PolicyHolderName;
    model.PolicyNumber = dto.PolicyNumber;
    model.PlanName = dto.PlanName;
}
```

```
public static void ParseModel(ConditionRelated model, ConditionRelatedDTO dto)
{
    if (dto == null) return;

    model.Employment = dto.Employment;
    model.AutoAccident = dto.AutoAccident;
    model.OtherAccident = dto.OtherAccident;
    model.AccidentState = dto.AccidentState;
}
```

```
public static void ParseModel(DiagnosisCode model, DiagnosisCodeDTO dto)
{
    if (dto == null) return;

    model.Code = dto.Code;
    model.Priority = dto.Priority;
}
```

```
public static void ParseModel(ServiceLine model, ServiceLineDTO dto)
{
    if (dto == null) return;

    model.ServiceStartDate = dto.ServiceStartDate;
    model.ServiceEndDate = dto.ServiceEndDate;
    model.ProcedureCode = dto.ProcedureCode;
    model.Modifier = dto.Modifier;
    model.DiagnosisPointer = dto.DiagnosisPointer;
    model.Charge = dto.Charge;
    model.RenderingProviderId = dto.RenderingProviderId;
}
```

```
public static void ParseModel(ProviderInfo model, ProviderInfoDTO dto)
{
    if (dto == null) return;
```

```
        model.Name = dto.Name;
        model.FederalTaxId = dto.FederalTaxId;
        ParseModel(model.Address, dto.Address ?? new Cms1500AddressDTO());
        model.NpHNumber = dto.NpiNumber; // Maps DTO's NpiNumber to model's
NpHNumber
        model.Phone = dto.Phone;
    }
}
}
```