

```

using GenericWebApp.DTO.Common;
using System;
using System.Collections.Generic;
using System.ComponentModel.DataAnnotations;

namespace Medical.DTO.Cms1500
{
    public class Cms1500FormDTO : EntityDTO
    {
        public int FormId { get; set; }

        // Program Information
        [Required]
        public required InsuranceProgram InsuranceProgram { get; set; }

        [MaxLength(20)]
        public string? InsuredIdNumber { get; set; }

        // Patient Information
        public required PatientInfoDTO Patient { get; set; }

        // Insured Information
        public required InsuredInfoDTO Insured { get; set; }

        // Other Insurance
        public OtherInsuranceInfoDTO? OtherInsurance { get; set; }

        // Condition Related To
        public required ConditionRelatedDTO ConditionRelated { get; set; }

        // Service Details
        public required List<DiagnosisCodeDTO> DiagnosisCodes { get; set; }
        public required List<ServiceLineDTO> ServiceLines { get; set; }

        // Provider Information
        public required ProviderInfoDTO BillingProvider { get; set; }
        public required ProviderInfoDTO ServiceFacility { get; set; }

        // Financials
        [Column(TypeName = "decimal(18,2)")]
        public decimal TotalCharge { get; set; }

        [Column(TypeName = "decimal(18,2)")]
        public decimal AmountPaid { get; set; }
    }
}

```

```

// Signatures
public DateTime PatientSignatureDate { get; set; }
public DateTime PhysicianSignatureDate { get; set; }

// Metadata
public DateTime CreatedDate { get; set; }
}

public class Cms1500AddressDTO : EntityDTO
{
    [MaxLength(100)]
    public string? Street { get; set; }

    [MaxLength(50)]
    public string? City { get; set; }

    [MaxLength(2)]
    public string? State { get; set; }

    [MaxLength(10)]
    public string? ZipCode { get; set; }

    [MaxLength(20)]
    public string? Phone { get; set; }
}

public class PatientInfoDTO : EntityDTO
{
    [MaxLength(50)]
    public required string LastName { get; set; }

    [MaxLength(50)]
    public required string FirstName { get; set; }

    public required DateTime BirthDate { get; set; }

    public required Sex Sex { get; set; }

    public required Cms1500AddressDTO Address { get; set; }

    public required Relationship RelationshipToInsured { get; set; }
}

```

```
public class InsuredInfoDTO : EntityDTO
{
    [MaxLength(50)]
    public required string LastName { get; set; }

    [MaxLength(50)]
    public required string FirstName { get; set; }

    public required Cms1500AddressDTO Address { get; set; }

    [MaxLength(20)]
    public string? GroupNumber { get; set; }
}
```

```
public class OtherInsuranceInfoDTO : EntityDTO
{
    [MaxLength(50)]
    public string? PolicyHolderName { get; set; }

    [MaxLength(20)]
    public string? PolicyNumber { get; set; }

    [MaxLength(50)]
    public string? PlanName { get; set; }
}
```

```
public class ConditionRelatedDTO : EntityDTO
{
    public required bool Employment { get; set; }
    public required bool AutoAccident { get; set; }
    public required bool OtherAccident { get; set; }

    [MaxLength(2)]
    public string? AccidentState { get; set; }
}
```

```
public class DiagnosisCodeDTO : EntityDTO
{
    [MaxLength(10)]
    public required string Code { get; set; }

    public required int Priority { get; set; }
}
```

```

public class ServiceLineDTO : EntityDTO
{
    public required DateTime ServiceStartDate { get; set; }
    public required DateTime ServiceEndDate { get; set; }

    [MaxLength(10)]
    public required string ProcedureCode { get; set; }

    [MaxLength(2)]
    public string? Modifier { get; set; }

    [MaxLength(10)]
    public string? DiagnosisPointer { get; set; }

    [Column(TypeName = "decimal(18,2)")]
    public required decimal Charge { get; set; }

    [MaxLength(20)]
    public required string RenderingProviderId { get; set; }
}

public class ProviderInfoDTO : EntityDTO
{
    [MaxLength(100)]
    public required string Name { get; set; }

    [MaxLength(20)]
    public required string FederalTaxId { get; set; }

    public required Cms1500AddressDTO Address { get; set; }

    [MaxLength(20)]
    public string? NpiNumber { get; set; }

    [MaxLength(20)]
    public string? Phone { get; set; }
}

// Enums (should be in a separate Common namespace)
public enum Relationship { Self, Spouse, Child, Other }
public enum Sex { Male, Female, Other }
public enum InsuranceProgram { Medicare, Medicaid, TRICARE, CHAMPVA, Other }
}

```