**Patient Class**

Simplified list of Patient Properties and methods in AspergillosisEPR/Models/Patient

public class Patient : ISearchable

{

public int ID { get; set; }

public string LastName { get; set; }

public string FirstName { get; ; }

public string Gender { get; set; }

public DateTime DOB { get; set; }

public string RM2Number { get; set; }

public int? PatientStatusId { get; set; }

public DateTime? DateOfDeath { get; set; }

public string NhsNumber { get; set; }

public string GenericNote { get; set; }

public string PostCode { get; set; }

public double DistanceFromWythenshawe { get; set; }

public ICollection<PatientDiagnosis> PatientDiagnoses { get; set; }

public ICollection<PatientDrug> PatientDrugs { get; set; }

public ICollection<PatientSTGQuestionnaire> STGQuestionnaires { get; set; }

public ICollection<PatientImmunoglobulin> PatientImmunoglobulines { get; set; }

public ICollection<PatientRadiologyFinding> PatientRadiologyFindings { get; set; }

public ICollection<PatientMeasurement> PatientMeasurements { get; set; }

public ICollection<CaseReportFormResult> CaseReportFormResults { get; set; }

public ICollection<PatientMedicalTrial> MedicalTrials { get; set; }

public ICollection<PatientDrugLevel> DrugLevels { get; set; }

public ICollection<PatientSurgery> PatientSurgeries { get; set; }

public PatientSmokingDrinkingStatus PatientSmokingDrinkingStatus { get; set; }

public ICollection<PatientAllergicIntoleranceItem> PatientAllergicIntoleranceItems { get; set; }

public ICollection<PatientPulmonaryFunctionTest> PatientPulmonaryFunctionTests { get; set; }

public PatientStatus PatientStatus { get; set; }

public ICollection<PatientNACDates> PatientNACDates { get; set; } = new List<PatientNACDates>();

public ICollection<PatientHaematology> PatientHaematologies { get; set;}

public ICollection<PatientTestResult> PatientTestResults { get; set; }

public ICollection<PatientMRCScore> PatientMRCScores { get; set; } = new List<PatientMRCScore>();

public ICollection<PatientICD10Diagnosis> PatientICD10Diagnoses { get; set; }

public ICollection<PatientRadiologyNote> PatientRadiologyNotes { get; set;

public ICollection<PatientHospitalAdmission> PatientHospitalAdmissions { get; set; }

public ICollection<CauseOfDeath> CausesOfDeaths { get; set; } = new List<CauseOfDeath>();

public string FullName

public static readonly List<string> Genders = new List<string>() { "male", "female" };

public static readonly List<string> CPABands = new List<string>() { "1", "2","3" };

public int Age()

public string BucketDistance()

public bool IsDeceased()

public bool IsValid()

private bool IsAlive()

public Dictionary<string, string> SearchableFields()

{

return new Dictionary<string, string>()

{

{ "First Name", "FirstName" },

{ "Last Name", "LastName" },

{ "RM2 Number", "RM2Number" },

{ "Date of Birth", "DOB" },

{ "Date of Death", "DateOfDeath" },

{ "Distance from hospital", "DistanceFromWythenshawe" },

{ "Status", "PatientStatus.PatientStatusId.Select" }

};

}

public string Initials()

public Position PatientPosition(AspergillosisContext context)

public void SetDistanceFromWythenshawe(AspergillosisContext context, ILogger logger)