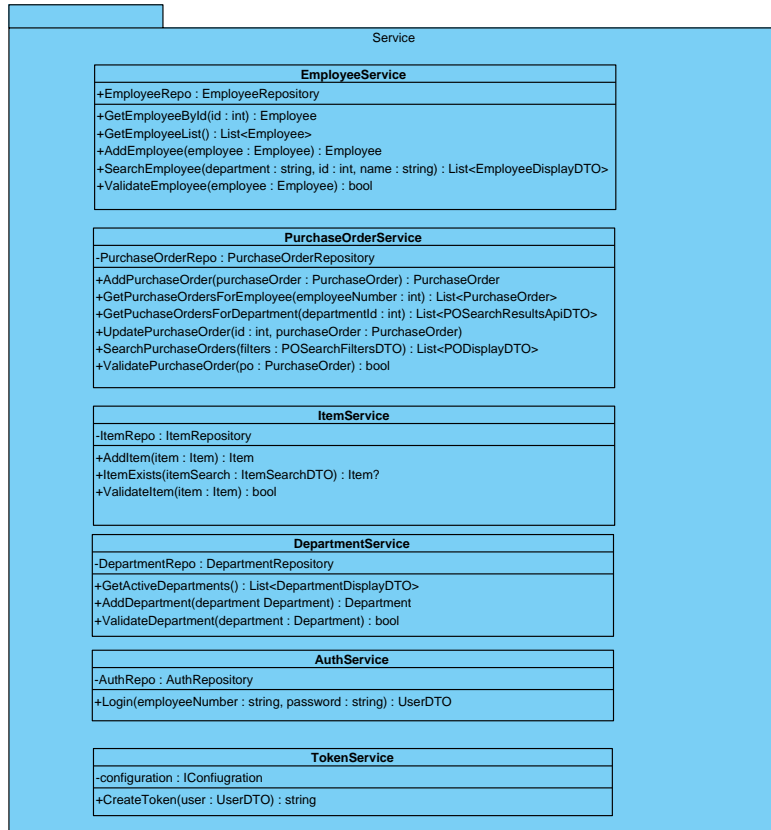# CapstoneUML_sprint1

Change List:
- added office location instead of job location to employee
- added seniority date field to employee
- renamed row version field
- removed table name prefix from field names
- removed isActive from department
- you can find POs for a given employee in a given time frame with the SearchPurchaseOrders(filters) function in the POService. The filters parameter is a DTO which has properties for startDate, endDate, and PoNumber. This criteria is searched against the creationDate and PoNumber fields in the PO table.

Service

EmployeeService
- +EmployeeRepo : EmployeeRepository
- +GetEmployeeById(id : int) : Employee
- +GetEmployeeList() : List<Employee>
- +AddEmployee(employee : Employee) : Employee
- +SearchEmployee(department : string, id : int, name : string) : List<EmployeeDisplayDTO>
- +ValidateEmployee(employee : Employee) : bool

PurchaseOrderService
- -PurchaseOrderRepo : PurchaseOrderRepository
- +AddPurchaseOrder(purchaseOrder : PurchaseOrder) : PurchaseOrder
- +GetPurchaseOrdersForEmployee(employeeNumber : int) : List<PurchaseOrder>
- +GetPuchaseOrdersForDepartment(departmentId : int) : List<POSearchResultsApiDTO>
- +UpdatePurchaseOrder(id : int, purchaseOrder : PurchaseOrder)
- +SearchPurchaseOrders(filters : POSearchFiltersDTO) : List<PODisplayDTO>
- +ValidatePurchaseOrder(po : PurchaseOrder) : bool

ItemService
- -ItemRepo : ItemRepository
- +AddItem(item : Item) : Item
- +ItemExists(itemSearch : ItemSearchDTO) : Item?
- +ValidateItem(item : Item) : bool

DepartmentService
- -DepartmentRepo : DepartmentRepository
- +GetActiveDepartments() : List<DepartmentDisplayDTO>
- +AddDepartment(department Department) : Department
- +ValidateDepartment(department : Department) : bool

AuthService
- -AuthRepo : AuthRepository
- +Login(employeeNumber : string, password : string) : UserDTO

TokenService
- -configuration : IConfiiugration
- +CreateToken(user : UserDTO) : string

depends on

Model

Entities

Employee
- +EmployeeNumber : int
- +HashedPassword : string
- +FirstName : string
- +MiddleInitial : char
- +LastName : string
- +DateOfBirth : DateTime
- +StreetAddress : string
- +City : string
- +PostalCode : string
- +SIN : string
- +WorkPhoneNumber : string
- +CellPhoneNumber : string
- +Email : string
- +SeniorityDate : DateTime
- +JobStartDate : DateTime
- +JobTitle : string
- +OfficeLocation : string
- +IsActive : bool
- +RowVersion : int
- +DepartmentId : int
- +SupervisorEmpNumber : int
- +RoleId : int

Department
- +Id : int
- +Name : string
- +Description : string
- +InvocationDate : DateTime
- +RowVersion : int

PurchaseOrder
- +PoNumber : int
- +CreationDate : DateTime
- +RowVersion : int
- +Status : int
- +EmployeeNumber : int

BaseEntity
- +Errors : List<ValidationError>
- +AddError(error : ValidationError)

ValidationError
- +Description : string
- +ErrorType : ErrorType

Item
- +Id : int
- +Name : string
- +Quantiy : int
- +Description : string
- +Price : decimal
- +Justification : string
- +Location : string
- +Status : int
- +RowVersion : int

Role
- +Id : int
- +Name : string

works in 0..* / 1
inherits / inherits / inherits / inherits
uses
belongs to / 1 / 1..*
0..* has a / 1

DTO

EmployeeDisplayDTO
- +EmployeeNumber : int
- +LastName : string
- +FirstName : string
- +WorkPhone : string
- +OfficeLocation : string
- +Position : string

ItemSearchDTO
- +ItemName : string
- +Description : string
- +Price : decimal
- +Justification : string
- +Location : string

POSearchFiltersDTO
- +StartDate : DateTime
- +EndDate : DateTime
- +PONumber : int?
- +EmployeeNumber : int

UserDTO
- +EmployeeNumber : int
- +RoleName : string
- +FullName : string
- +Email : string

POSearchResultsApiDTO
- +PoNumber : int
- +CreationDate : DateTime
- +SupervisorName : string
- +Status : string

For search PO API user story

PODisplayDTO
- +PoNumber : int
- +CreationDate : DateTime
- +Status : string
- +Subtotal : decimal
- +Tax : decimal
- +GrandTotal : decimal

For search PO - Employee user story

DepartmentDisplayDTO
- +DepartmentId : int
- +DepartmentName : string

LoginOutputDTO
- +EmployeeNumber : int
- +Email : string
- +Token : string
- +ExpiresIn : int

This is created in the API layer