Employee U ld char(8) SupervisorId N U char(8) N U n DepartmentId Department 1 or many Employees can belong to 1 varchar(255) Supervisor, but can belong to 0 supervisor if Password int the employee is CEO Name varchar(128) FirstName varchar(50) LastName varchar(50) Description varchar(512) MiddleInitial char(1) InvocationDate datetime StreetAddress varchar(255) RecordVersion rowversion City varchar(255) Province varchar(255) PostalCode varchar(7) 1 or many employees can belong to 1 DOB datetime department but an employee can belong to 0 SIN U varchar(11) department if the employee is the CEO SeniorityDate datetime ■ JobStartDate datetime JobAssignment varchar(255) WorkPhone varchar(12) CellPhone varchar(12) EmailAddress varchar(255) OfficeLocation varchar(255) RecordVersion rowversion PurchaseOrderItem int PurchaseOrder PurchaseOrderNumber char(8) PurchaseOrderNumber char(8) Quantity int = Employeeld char(8) Justification varchar(255) Status varchar(20) PurchaseLocation varchar(255) ■ DateCreated datetime **ItemStatus** varchar(10) RecordVersion rowversion varchar(255) Name N EmployeeLoginusername char(8) Description varchar(255) Price money

RecordVersion

rowversion

Name	Sprint 1 HR & PO ERD
Designed by	Mohammad Rashed, JG
Sprint	Sprint 1
Project	NBCC - Capstone Project
/ersion	1.3

Service

repo: EmployeeRepo

+GetAll(): List<EmployeeDTO>

+GetAsync(id : string) : EmployeeDTO

+CreateAsync(emp : EmployeeDTO) : Employee +UpdateAsync(emp : EmployeeDTO) : Employee

+DeleteAsync(id : string) : Employee

+SearchAsync(params: EmployeeSearchDTO): List<EmployeeSearchResultDTO>

IEmployeeService

+GetEmployeeSupervisor(id : string) : EmployeeDTO

GetEmployeeDetails(id : string) : EmployeeDTO

GetSupervisedEmployees(supervisorId : string) : List<EmployeeDTO> +GetEmployeeAccessLevel(id : string) : AccessLevels

+Validate(emp : Employee) : void

+IsLegalAge(empld : string) : bool

ILoginService

Login(params : LoginDTO) : Employee

repo: LoginRepo

IDepartmentService

CreateAsync(dept : DepartmentDTO) : Department

UpdateAsync(dept : DepartmentDTO) : Departmen

L---->

repo : DepartmentRepo

GetAll(): List<DepartmentDTO>

GetAsync(id: int): DepartmentDTO

DeleteAsync(id : int) : Department

+Validate(dept : Department) : void

repo: PurchaseOrderRepo

+GetAll(): List<POSummaryDto>

GetAsync(purchaseOrderId : string) : PODetailsDto +CreateAsync(dto: POCreateDto): PurchaseOrder

+SearchAsync(criteria: POSearchDto): List<POSummaryDto>

+SearchAsync(employeeld : string, criteria : POSearchDto) : List<POSummaryDto>

DeleteAsync(purchaseOrderId : string) : PurchaseOrder

+Validate(po : PurchaseOrder) : void

+CalculateSubTotal(po:PurchaseOrder.items:List<PurchaseOrderItem>):decimal

IPurchaseOrderService

+CalculateTaxTotal(po:PurchaseOrder, items:List<PurchaseOrderItem>):decimal

CalculateGrandTotal(po:PurchaseOrder, items:List<PurchaseOrderItem>):decimal

IPurchaseOrdemItemService

repo: PurchaseOrderItemRepo

+GetByPOAsync(pold : string) : List<ItemDetailsDto>

+Get(itemId : int) : ItemDetailsDto

Version

+CreateAsync(purchaseOrderId: string, dto: ItemCreateDto): PurchaseOrderItem

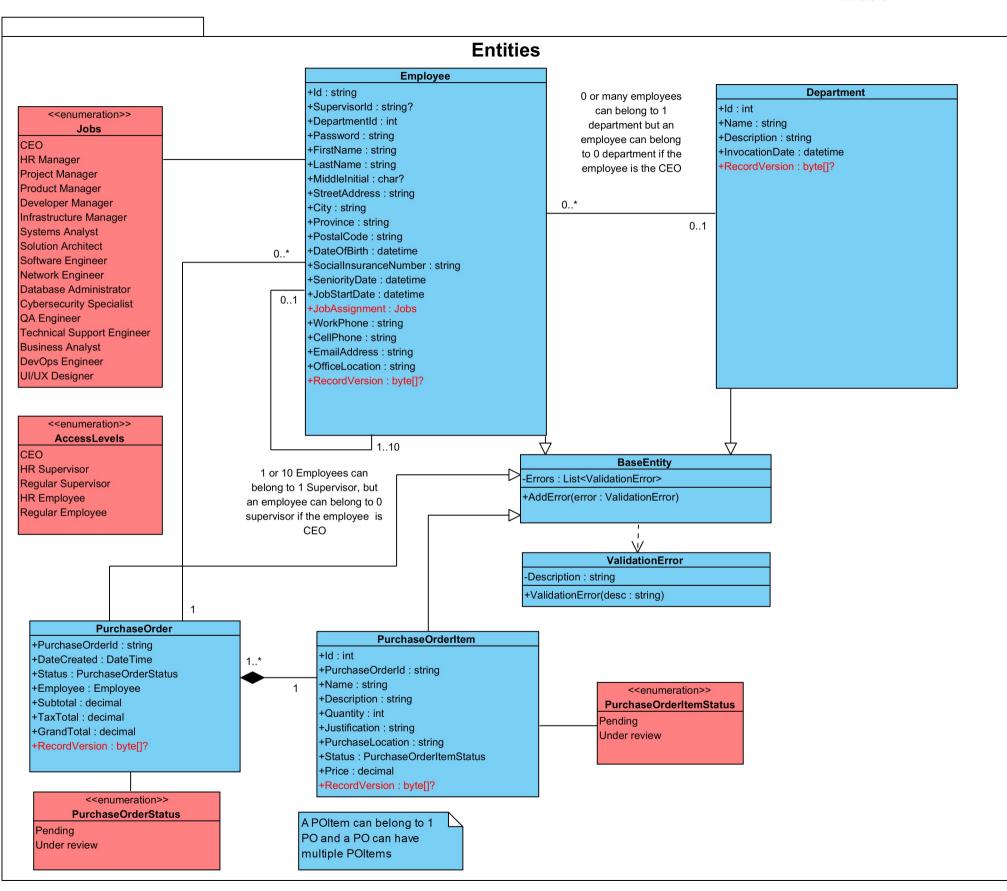
DeleteAsync(PurchaseOrderItemId: int): PurchaseOrderItem

UpdateAsync(PurchaseOrderNumber: string, dto: ItemUpdateDto): PurchaseOrderItem

+Validate(poltem : PurchaseOrderItem) : void

Sprint 1 HR & PO UML Designed by Mohammad Rashed, JG Sprint Sprint 1 NBCC - Capstone Project

Model



DTOs

DepartmentDTO

EmployeeSearchResultDTO

EmployeeSearchDTO

+ld: string

+City: string

+Password : string

+FirstName : string

+LastName : string

Province: string

PostalCode : string

+DateOfBirth: datetime

+SeniorityDate : datetime

+JobStartDate: datetime

+JobAssignment: Jobs

+SupervisorId: string?

WorkPhone : string

EmailAddress: string

+OfficeLocation: string

+DepartmentId: int

+CellPhone : string

+ld : int

+Name : string

+Quantity : int

+Description : string

+Justification: string

+PurchaseLocation: string

ItemSubtotal : decimal

+ItemTaxTotal : decimal

+ItemGrandTotal : decimal

+Status : PurchaseOrderItemStatus

+Price : decimal

+SocialInsuranceNumber: string

+MiddleInitial: char?

+StreetAddress: string

DepartmentId : int Employeeld : string LastName : string

+WorkPhone : string +OfficeLocation : string +Position : string

FirstName : string

+LastName : string

+ld : int Name : string Description: string InvocationDate: datetime

LoginDTO

username : string password : string

+Employeeld : string

PODetailsDto

DateCreated : DateTime EmployeeFullName: string DepartmentName: string SupersivorFullName: string Status: PurchaseOrderStatus Items: List<ItemDetailsDto> Subtotal : decimal +TaxTotal : decimal +GrandTotal : decimal

> +Name : string +Quantity: int +Justification : string +PurchaseLocation : string

DepartmentListDTO

Department : Department Name : string

POSummaryDto

-DateCreated : DateTime +Employee : string Status : PurchaseOrderStatus -Subtotal : decimal +TaxTotal : decimal

POCreateDto

+Items : List<ItemCreateDto>

+PurchaseOrderId: string

ItemUpdateDto

Description : string

+PurchaseOrderId : string

+GrandTotal : decimal

POSearchDto

-StartDate : DateTime? -EndDate : DateTime? +PurchaseOrderId : string? +DepartmentsId : List<int>

ItemCreateDto

-Name : string +Description : string +Price : decimal +Quantity: int +Justification : string +PurchaseLocation : string +Status: PurchaseOrderItemStatus