

Name	Sprint 1 HR & PO ERD
Designed by	Mohammad Rashed, JG
Sprint	Sprint 1
Project	NBCC - Capstone Project
/ersion	1.4

# Service

## **IEmployeeService** 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> 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

## **IPurchaseOrderService**

repo: PurchaseOrderRepo

+GetAll(): List<POSummaryDto>

·GetAsync(purchaseOrderId: string): PODetailsDto

+CreateAsync(dto: POCreateDto): PurchaseOrder

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

+DeleteAsync(purchaseOrderId: string): PurchaseOrder

+Validate(po : PurchaseOrder) : void

+CalculateSubTotal(po: PurchaseOrder): decimal

+CalculateTaxTotal(subTotal : decimal) : decimal

·CalculateGrandTotal(subTotal : decimal, tax : decimal) : decimal

# IPurchaseOrderItemService

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

+CalculateSubTotal(poltem : PurchaseOrderItem) : decimal

+CalculateTaxTotal(subTotal : decimal) : decimal

+CalculateGrandTotal(subTotal : decimal, tax : decimal) : decimal

epo: JobRepo GetAsync(id: int): Job -GetAll(): List<Job> Validate(job : Job) : void

IDepartmentService

-CreateAsync(dept : DepartmentDTO) : Department

-UpdateAsync(dept : DepartmentDTO) : Departmer

|-----<del>-</del>

epo : DepartmentRepo

GetAll(): List<DepartmentDTO>

GetAsync(id : int) : DepartmentDTO

+DeleteAsync(id : int) : Department

**ILoginService** 

Login(params : LoginDTO) : Employe

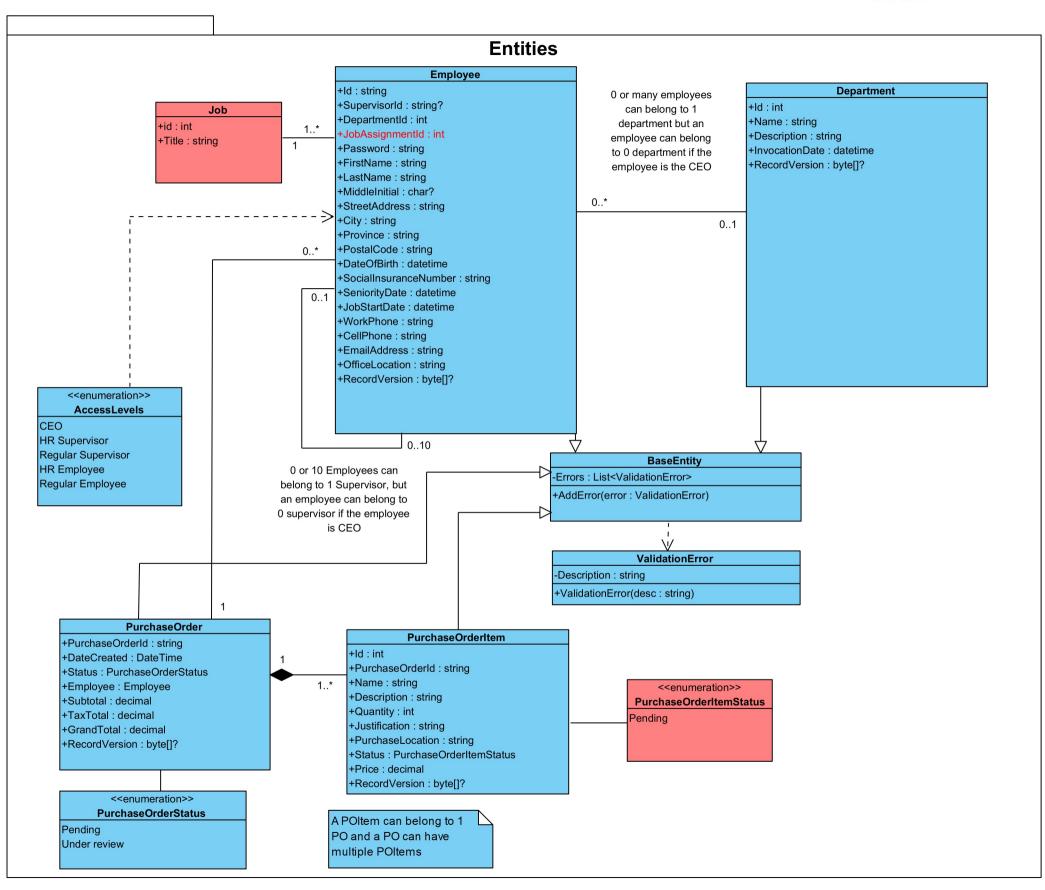
**IJobService** 

epo: LoginRepo

+Validate(dept : Department) : void

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

# Model



## **DTOs**

EmployeeSearchResultDTO

### EmployeeSearchDTO

DepartmentId : int +Employeeld : string +LastName : string

+ld: string

+SupervisorId : string?

+JobAssignmentId: int

+DepartmentId : int

Password : string

+FirstName : string

+LastName : string

+City: string

+Province : string

+PostalCode : string

+WorkPhone : string

+CellPhone : string

+ld : int

+Name : string

+Quantity: int

+Price : decimal

+Description : string

+Justification: string

+PurchaseLocation : string

+ItemSubtotal : decimal

+ItemTaxTotal : decimal

+ItemGrandTotal: decimal

+EmailAddress : string

+OfficeLocation : string

+DateOfBirth : datetime

SeniorityDate : datetime

+JobStartDate : datetime

+SocialInsuranceNumber : strin

**ItemDetailsDto** 

+Status : PurchaseOrderItemStatus

+MiddleInitial : char?

+StreetAddress : string

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

FirstName : string

+LastName : string

+WorkPhone : string

+Position : string

+OfficeLocation : string

DepartmentDTO

#### LoginDTO

sername: string password : string

### **POCreateDto**

Employeeld : string Items: List<ItemCreateDto>

### **PODetailsDto** PurchaseOrderId : string

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

## ItemUpdateDto

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

Department : Department Name : string

#### **POSummaryDto**

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

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

**POSearchDto** 

## **ItemCreateDto**

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