CapstoneUML_sprint2

Change List:
- In employee service: added SearchEmployeeDirectory, GetEmployeeByEmployeeNumber, UpdatePersonalInfo, and UpdateEmployee
- In department service: added UpdateDepartment, GetDepartmentForEmployee
- In PO service: added GetPurchaseOrdersForDepartment, SearchPurchaseOrdersForSupervisor, ClosePO
- For employee, changed IsActive to Status which will relate to an id in EmployeeStatus
- Added EmailDTO, POSupervisorFilters, EmployeeInfoDTO

Service

EmployeeService
+EmployeeRepo : EmployeeRepository
+GetEmployeeById(id : int) : Employee
+GetEmployeeList() : List<Employee>
+AddEmployee(employee : Employee) : Employee
+SearchEmployeeDirectory(employeeNumber : int, lastName : string) : List<EmployeeDetailDTO>
+GetEmployeeByEmployeeNumber(employeeNumber : int) : EmployeeDetailDTO
+UpdatePersonalInfo(info : EmployeeInfoDTO) : EmployeeInfoDTO
+UpdateEmployee(e : Employee) : Employee
+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) : PurchaseOrder
+SearchPurchaseOrders(filters : POSearchFiltersDTO) : List<PODisplayDTO>
+ValidatePurchaseOrder(po : PurchaseOrder) : bool
+GetPurchaseOrdersForDepartment(departmentId) : List<PurchaseOrder>
+SearchPurchaseOrdersForSupervisor(filters : POSupervisorFiltersDTO) : List<PurchaseOrder>
+ClosePO(PONumber : int) : PurchaseOrder

ItemService
-ItemRepo : ItemRepository
+AddItem(item : Item) : Item
+UpdateItem(item : Item) : Item
+ValidateItem(item : Item) : bool

DepartmentService
-DepartmentRepo : DepartmentRepository
+GetActiveDepartments() : List<DepartmentDisplayDTO>
+AddDepartment(department Department) : Department
+UpdateDepartment(d : Department) : Department
+GetDepartmentForEmployee(employeeNumber : int) : Department
+ValidateDepartment(department : Department) : bool

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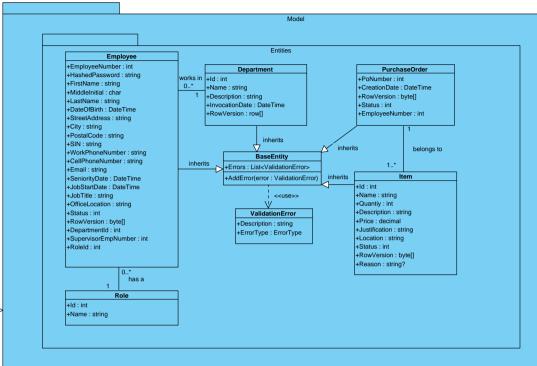+Login(employeeNumber : string, password : string) : UserDTO

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

EmailService
+Send(info : EmailDTO) : void

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
+Status : int
+RowVersion : byte[]
+DepartmentId : int
+SupervisorEmpNumber : int
+RoleId : int

works in 0..   1*

Department
+Id : int
+Name : string
+Description : string
+InvocationDate : DateTime
+RowVersion : row[]

inherits

PurchaseOrder
+PoNumber : int
+CreationDate : DateTime
+RowVersion : byte[]
+Status : int
+EmployeeNumber : int

inherits   *inherits*

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

inherits   *inherits*

belongs to   1   1..*

Item
+Id : int
+Name : string
+Quantiy : int
+Description : string
+Price : decimal
+Justification : string
+Location : string
+Status : int
+RowVersion : byte[]
+Reason : string?

<<use>>

ValidationError
+Description : string
+ErrorType : ErrorType

0..   has a*

Role
+Id : int
+Name : string

1

DTO

EmployeeDetailDTO
+EmployeeNumber : int
+LastName : string
+FirstName : string
+WorkPhone : string
+CellPhone : string
+HomeMailingAddress : string
+Email : 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

EmployeeInfoDTO
+EmployeeNumber : int
+Password : string
+FirstName : string
+LastName : string
+MiddleInitial : char
+StreetAddress : string
+City : string
+PostalCode : 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

EmailDTO
+To : string
+From : string
+Subject : string
+Body : string

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

POSupervisorFiltersDTO
+StartDate : DateTime
+EndDate : DateTime
+PONumber : int
+Status : int
+EmployeeName : string

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