



ValidationError

- +Description : string
- +ValidationErrors(des : string)

BaseEntity

- +Errors : List<ValidationErrors>
- +AddError(emor : ValidationErrors)

Employee

- +ID : string
- +Password : string
- +FirstName : string
- +LastName : string
- +MiddleInitial : char?
- +StreetAddress : string
- +City : string
- +PostalCode : string
- +Hub : DateTime
- +SIN : string
- +SeniorityDate : DateTime
- +JobStartDate : DateTime
- +WorkPhone : string
- +Email : string
- +IsSupervisor : boolean
- +SupervisorID : int
- +DepartmentID : int
- +JobID : int
- +OfficeLocation : string
- +Status : string

Department

- +ID : int
- +Name : string
- +Description : string
- +InvocationDate : DateTime

Job

- +ID : int
- +Name : string

PurchaseOrder

- +PurchaseOrderNumber : string
- +EmployeeID : int
- +DepartmentID : int
- +CreationDate : DateTime
- +PurchaseStatus : string
- +SubTotal : decimal
- +TaxTotal : decimal
- +GrandTotal : decimal
- +Items : List<PurchaseOrderItem>

PurchaseOrderItem

- +ID : int
- +ItemName : string
- +ItemDescription : string
- +ItemQuantity : int
- +ItemPrice : decimal
- +ItemJustification : string
- +ItemStatus : string
- +ItemPurchaseLocation : string

PurchaseOrderDTO

- +PurchaseOrderNumber : string
- +EmployeeFullName : string
- +DepartmentName : string
- +SupervisorFullName : string
- +CreationDate : DateTime
- +PurchaseStatus : string
- +Items : List<PurchaseOrderItemDto>
- +Subtotal : decimal
- +TaxTotal : decimal
- +GrandTotal : decimal

PurchaseOrderSearchDTO

- +PurchaseOrderNumber : string?
- +StartDate : DateTime?
- +EndDate : DateTime?

PurchaseOrderSearchResultDTO

- +PurchaseOrderNumber : string
- +PurchaseOrderCreationDate : DateTime
- +PurchaseOrderStatus : string
- +SubTotal : decimal
- +TaxTotal : decimal
- +GrandTotal : decimal

SupervisorSearchResultDto

- +PurchaseOrderNumber : string
- +CreatedDate : DateTime
- +SupervisorName : string
- +PurchaseOrderStatus : string

PurchaseOrderItemDto

- +id : int
- +ItemName : string
- +ItemDescription : string
- +ItemQuantity : string
- +ItemPrice : decimal
- +ItemJustification : string
- +ItemStatus : string
- +ItemPurchaseLocation : string

EmployeeDto

- +EmployeeDto(id : int, Name : string)

DepartmentDto

- +DepartmentDto(id : int, Name : string)

EmployeeAssignmentResultDto

- +EmployeeName : string
- +DepartmentName : string
- +SupervisorName : string?

LoginDto

- +Username : string
- +Password : string

EmployeeSearchDto

- +DepartmentID : int?
- +EmployeeID : string?
- +Name : string?

LoginResultDto

- +UserName : string
- +JobID : int

EmployeeSearchResultDTO

- +EmployeeSearchResultDTO(LastName : string, FirstName : string, WorkPhone : string, OfficeLocation : string, Position : string)

AuthenticateService

- +repo : AuthenticatorRepository = new()
- +Login(login : LoginDto) : LoginResultDto
- +IsValid(login : LoginDto) : boolean
- +IsActiveUser(login : LoginDto) : boolean

PasswordUtilityService

- +GenerateSalt(length : int = 16) : byte[]
- +HashToSHA256(input : string, salt : byte[]) : string

EmployeeService

- +repo : EmployeeRepository = new()
- +Create(employee : Employee) : Employee
- +Get(searchDto : EmployeeSearchDto) : List<EmployeeSearchDto>
- +IsValidEmployee (Employee) : boolean
- +IsValidSupervisorForDepartment(supervisorId : int, departmentId : int) : boolean
- +IsValidSupervisorCEO(supervisorId : int) : boolean
- +CanAssignMoreEmployeesToSupervisor(supervisorId : int) : boolean
- +GetAllSupervisors(departmentId : int?) : List<EmployeeDto>
- +GetAllJobs() : List<Job>
- +GetEmployeeAssignment(employeeId : int) : EmployeeAssignmentResultDto

DepartmentService

- +repo : DepartmentRepository = new()
- +Create(department : Department) : Department
- +GetAll() : List<DepartmentDto>
- +IsValid(department : Department) : boolean
- +IsValidInvocationDate(department : Department) : boolean

PurchaseOrderService

- +repo : PurchaseOrder
- +CreatePurchaseOrder(purchaseOrder : PurchaseOrder) : PurchaseOrder
- +ValidateOrder(purchaseOrder : PurchaseOrder) : bool
- +MergeItem(purchaseOrder : PurchaseOrder) : void
- +CalculateTotal(purchaseOrder : PurchaseOrder) : decimal
- +GeneratePurchaseOrderNumber() : int
- +GetPurchaseOrder(purchaseOrderSearchDTO : PurchaseOrderSearchDTO) : List<PurchaseOrderSearchResultDTO>
- +GetPurchaseOrderDetails(purchaseOrder : int) : PurchaseOrderDTO

Name	Bravo_HR_UML_v1.1
Description	Bravo_HR_UML_v1.1
Team	Bravo

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