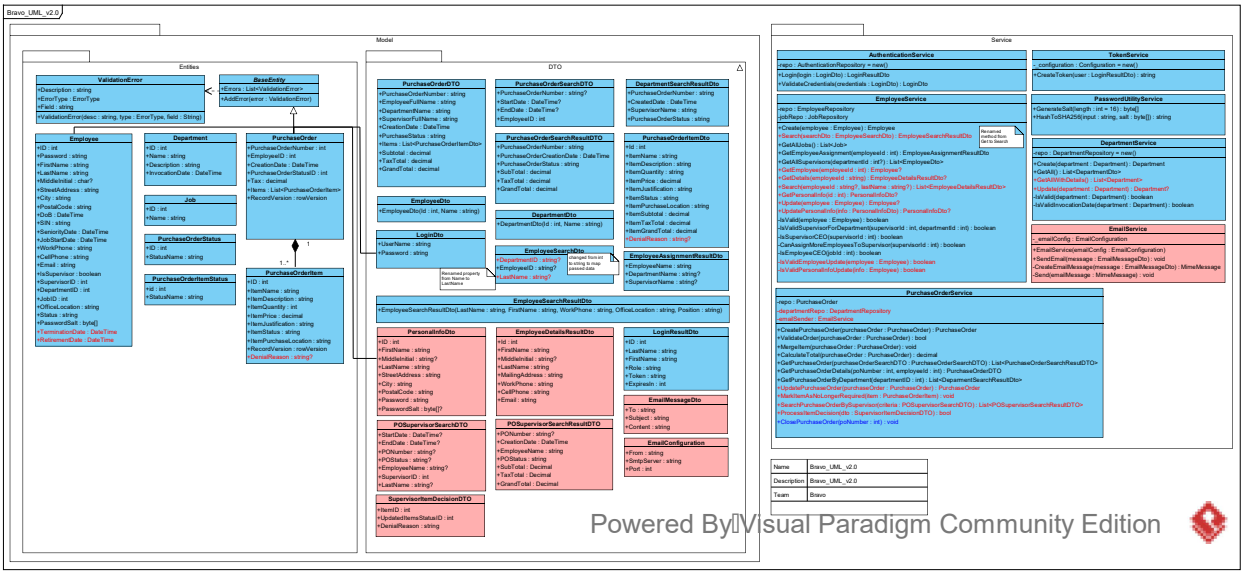
Bravo_UML_v2.0
Model
Entities
ValidationError
+Description : string
+ErrorType : ErrorType
+Field : string
+ValidationError(desc : string, type : ErrorType, field : String)
BaseEntity
+Errors : List<ValidationError>
+AddError(error : ValidationError)
Employee
+ID : int
+Password : string
+FirstName : string
+LastName : string
+MiddleInitial : char?
+StreetAddress : string
+City : string
+PostalCode : string
+DoB : DateTime
+SIN : string
+SeniorityDate : DateTime
+JobStartDate : DateTime
+WorkPhone : string
+CellPhone : string
+Email : string
+IsSupervisor : boolean
+SupervisorID : int
+DepartmentID : int
+JobID : int
+OfficeLocation : string
+Status : string
+PasswordSalt : byte[]
+TerminationDate : DateTime
+RetirementDate : DateTime
Department
+ID : int
+Name : string
+Description : string
+InvocationDate : DateTime
Job
+ID : int
+Name : string
PurchaseOrderStatus
+ID : int
+StatusName : string
PurchaseOrderItemStatus
+id : int
+StatusName : string
PurchaseOrder
+PurchaseOrderNumber : int
+EmployeeID : int
+CreationDate : DateTime
+PurchaseOrderStatusID : int
+Tax : decimal
+Items : List<PurchaseOrderItem>
+RecordVersion : rowVersion
1
1..*
PurchaseOrderItem
+ID : int
+ItemName : string
+ItemDescription : string
+ItemQuantity : int
+ItemPrice : decimal
+ItemJustification : string
+ItemStatus : string
+ItemPurchaseLocation : string
+RecordVersion : rowVersion
+DenialReason : string?
DTO
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?
+EmployeeID : int
DepartmentSearchResultDto
+PurchaseOrderNumber : string
+CreatedDate : DateTime
+SupervisorName : string
+PurchaseOrderStatus : string
PurchaseOrderSerSearchResultDTO
+PurchaseOrderNumber : string
+PurchaseOrderCreationDate : DateTime
+PurchaseOrderStatus : string
+SubTotal : decimal
+TaxTotal : decimal
+GrandTotal : decimal
PurchaseOrderItemDto
+Id : int
+ItemName : string
+ItemDescription : string
+ItemQuantity : string
+ItemPrice : decimal
+ItemJustification : string
+ItemStatus : string
+ItemPurchaseLocation : string
+ItemSubtotal : decimal
+ItemTaxTotal : decimal
+ItemGrandTotal : decimal
+DenialReason : string?
EmployeeDto
+EmployeeDto(Id : int, Name : string)
DepartmentDto
+DepartmentDto(Id : int, Name : string)
LoginDto
+UserName : string
+Password : string
Renamed property from Name to LastName
EmployeeSearchDto
+DepartmentID : string?
+EmployeeID : string?
+LastName : string?
changed from int to string to map period date
EmployeeAssignmentResultDto
+EmployeeName : string
+DepartmentName : string?
+SupervisorName : string?
EmployeeSearchResultDto
+EmployeeSearchResultDto(LastName : string, FirstName : string, WorkPhone : string, OfficeLocation : string, Position : string)
PersonalInfoDto
+ID : int
+FirstName : string
+MiddleInitial : string?
+LastName : string
+StreetAddress : string
+City : string
+PostalCode : string
+Password : string
+PasswordSalt : byte[]?
POSupervisorSearchDTO
+StartDate : DateTime?
+EndDate : DateTime?
+PONumber : string?
+POStatus : string?
+EmployeeName : string?
+SupervisorID : int
+LastName : string?
SupervisorItemDecisionDTO
+ItemID : int
+UpdatedItemsStatusID : int
+DenialReason : string
EmployeeDetailsResultDto
+Id : int
+FirstName : string
+MiddleInitial : string?
+LastName : string
+MailingAddress : string
+WorkPhone : string
+CellPhone : string
+Email : string
POSupervisorSearchResultDTO
+PONumber : string?
+CreationDate : DateTime
+EmployeeName : string
+POStatus : string
+SubTotal : Decimal
+TaxTotal : Decimal
+GrandTotal : Decimal
LoginResultDto
+ID : int
+LastName : string
+FirstName : string
+Role : string
+Token : string
+Expirasin : int
EmailMessageDto
+To : string
+Subject : string
+Content : string
EmailConfiguration
+From : string
+SmtpServer : string
+Port : int
Service
AuthenticationService
-repo : AuthenticationRepository = new()
+Login(login : LoginDto) : LoginResultDto
+ValidateCredentials(credentials : LoginDto) : LoginDto
TokenService
-configuration : Configuration = new()
+CreateToken(user : LoginResultDto) : string
EmployeeService
-repo : EmployeeRepository
-jobRepo : JobRepository
+Create(employee : Employee) : Employee
+SearchUsersDto : EmployeeSearchDto) : EmployeeSearchResultDto
+GetAllJobs() : List<Job>
+GetEmployeeAssignment(employeeId : int) : EmployeeAssignmentResultDto
+GetAllSupervisors(departmentId : int?) : List<EmployeeDto>
+GetEmployee(employeeId : int) : Employee?
+GetDetails(employeeId : string) : EmployeeDetailsResultDto?
+Search(employeeId : string?, lastName : string?) : List<EmployeeDetailsResultDto>
+GetPersonalInfo(Id : int) : PersonalInfoDto?
+Update(employee : Employee) : Employee?
+UpdatePersonalInfo(info : PersonalInfoDto) : PersonalInfoDto?
-IsValid(employee : Employee) : boolean
-IsValidSupervisorForDepartment(supervisorId : int, departmentId : int) : boolean
-IsSupervisorCEO(supervisorId : int) : boolean
-CanAssignMoreEmployeesToSupervisor(supervisorId : int) : boolean
-IsEmployeeCEO(jobId : int) : boolean
-IsValidEmployeeUpdate(employee : Employee) : boolean
-IsValidPersonalInfoUpdate(info : Employee) : boolean
Renamed property from Search to Search
PasswordUtilityService
+GenerateSalt(length : int = 16) : byte[]
+HashToSHA256(input : string, salt : byte[]) : string
DepartmentService
-repo : DepartmentRepository = new()
+Create(department : Department) : Department
+GetAll() : List<DepartmentDto>
+GetAllWithDetails() : List<Department>
+Update(department : Department) : Department?
-IsValid(department : Department) : boolean
-IsValidInvocationDate(department : Department) : boolean
EmailService
-_emailConfig : EmailConfiguration
+EmailService(emailConfig : EmailConfiguration)
+SendEmail(message : EmailMessageDto) : void
-CreateEmailMessage(message : EmailMessageDto) : MimeMessage
-Send(emailMessage : MimeMessage) : void
PurchaseOrderService
-repo : PurchaseOrder
-departmentRepo : DepartmentRepository
-emailSender : EmailService
+CreatePurchaseOrder(purchaseOrder : PurchaseOrder) : PurchaseOrder
+ValidateOrder(purchaseOrder : PurchaseOrder) : bool
+MergeItem(purchaseOrder : PurchaseOrder) : void
+CalculateTotal(purchaseOrder : PurchaseOrder) : decimal
+GetPurchaseOrder(purchaseOrderSearchDTO : PurchaseOrderSearchDTO) : List<PurchaseOrderSearchResultDTO>
+GetPurchaseOrderDetails(poNumber : int, employeeId : int) : PurchaseOrderDTO
+GetPurchaseOrderByDepartment(departmentID : int) : List<DepartmentSearchResultDto>
+UpdatePurchaseOrder(purchaseOrder : PurchaseOrder) : PurchaseOrder
+MarkItemAsNoLongerRequired(item : PurchaseOrderItem) : void
+SearchPurchaseOrderBySupervisor(criteria : POSupervisorSearchDTO) : List<POSupervisorSearchResultDTO>
+ProcessItemDecision(dto : SupervisorItemDecisionDTO) : bool
+ClosePurchaseOrder(poNumber : int) : void
Name
Bravo_UML_v2.0
Description
Bravo_UML_v2.0
Team
Bravo
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