Model

Entities

Employee
+id : int
+employeeNumber : string
+password : string
+passwordSalt : byte
+firstName : string
+middleInitial : string?
+lastName : string
+streetAddress : string
+city : string
+postalCode : string
+dob : DateTime
+sin : string
+seniorityDate : DateTime
+jobStartDate : DateTime?
+jobAssignment : string
+supervisorEmployee : int?
+officeLocation : string?
+workPhone : string
+cellPhone : string
+email : string
+isSupervisor : boolean
-RowVersion : rowversion
+RetirementDate : DateTime?
+TerminationDate : DateTime?

Role
+roleId : int
+roleString : string

JobAssignment
+id : int
+positionName : string

Department
+id : int
+name : string
+description : string
+invocationDate : DateTime

BaseEntity
-errors : List<ValidationErrors>
+addError(error : ValidatorError)

ValidationError
-description : string
+validationError(desc : string)

EmployeeStatus
+id : int
+statusName

Rating
+id : int
+name

Review
+id : int
+year
+quarter
-reviewName
+comment
+completionDate

Order
+id : int
+poNumber : string
+creationDate : datetime
+itemList : List<Item>
+employee : Employee
+status : int
+close : bool

Item
+itemId : int
+itemName : string
+itemDescription : string
+itemQuantity : int
+itemPrice : decimal
+itemPurchase : string
+itemJustification : string
+status : int
+denyReason : string
+editReason : string

DTO

Name	Juilet_Initial_UML
Authors	Andrii Lebid, Aigul Yermagambetova
Version	3.1
Last Modification	15 May 2024 10:52 AM
Description	Team 10 Juilet

EmployeeDTO
+employeeID : int
+firstName : string
+lastName : string
+workPhone : string
+officeLocation : string
+position

OrderDTO
+poNumber : string
+poCreationDate
+poSupervisorName
+poStatus

LoginDTO
+employeeNumber : string
+password : string

LoginUserDTO
+employeeId : int
+employeeNumber : string
+email : string
+roleName : string

LoginOutputDTO
+employeeNumber : string
+token : string
+expiresIn : int

Service

DepartmentService
-repo : DepartmentRepo

+RetriveDepartmentsAsync() : List<Department>
+AddDepartment(d : Department) : Department
-ValidateDepartment(d : Department) : bool
+GetDepartmentByEmployeeId(EmployeeId : int) : Department
+UpdateDepartment(d : Department) : Department
+DeleteDepartment(d : Department) : bool

ReviewService
-repo : ReviewRepo

+CreateReview(review : Review) : Review
+ShowReview() : List<Review>

OrderService
-ValidateOrder(order : Order) : boolean
+GetAllOrder() : List<Order>
+GetOrderById(orderId : int) : Order
+AddOrder(order : Order) : Order
+SearchOrder(PONumber : string, employeeId : int?) : List<OrderDTO>
+SearchOrder(startDate : DateTime, endDate : DateTime, employeeId : int?) : List<OrderDTO>
+SearchOrder(startDate : DateTime, endDate : DateTime, PONumber : string, employeeId : int?) : List<OrderDTO>
+SupervisorSearchOrder(startDate : DateTime?, endDate : DateTime?, PONumber : string?, employeeName : string?, statusId : int, departmentId : int) : List<OrderDTO>
+AddItem(item : Item) : Item
-MergeSameItem(item : Item, itemsList : List<Item>) : Item
+GetItemsByOrderNumber(orderId : int) : Item
-CalculateOrderTotal(items : List<Item>)
+UpdateOrder(Order : order) : Order
+UpdateItem(item : Item) : Item
+GetPOPerPeriod(StartDate : DateTime, EndDate : DateTime, statusId : int) : List<OrderDTO>
+GetExpencesePerPeriod(StartDate : DateTime, EndDate : DateTime) : decimal
+GetPerformancePerPeriod(StartDate : DateTime, EndDate : DateTime) : int

EmployeeService
-employeeRepo : EmployeeRepo
-departmentRepo : DepartmentRepo

+AddEmployee(emp : Employee) : Employee
+GetAllEmployees() : List<EmployeeDTO>
+SearchEmployees(employeeId : int) : List<EmployeeDTO>
+SearchEmployees(lastName : string) : List<EmployeeDTO>
+SearchEmployee(departmentId : int) : List<EmployeeDTO>
+SearchEmployees(employeeId : int, lastName : string, departmentId : int) : List<EmployeeDTO>
-ValidateEmployee(emp : Employee) : bool
+UpdateEmployee(emp : Employeet) : Employee
+GetEmployeeDetail(EmployeeNumber : string) : Employee
+DisplayEmployeesWithPendingReviews(emp : Employee, review : Review) : List<Employee>
+GetEmployeeByDepartment(departmentId : int) : List<Employee>

ListService
+GetItemStatusList() : List<ItemStatus>
+GetOrdreStatusList() : List<OrderStatus>
+GetRole() : Role
+GetPositionList() : List<Position>

PasswordUtility
+GenerateSalt(length) : byte[]
+HashToSHA256(input : string, salt : byte[]) : string
+PasswordCheck(password : string) : boolean

MailService
+SendEmail(Employee : employee, order : Order) : boolean
+SendReviewEmailSupervisor(Employee : employee, Review : review) : boolean

LoginService
+Login(user LoginDTO) : Task<LoginOutputDTO>

TokenService
+CreateToken(LoginUserDTO) : token