Class definition: attributes and operations

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Boundary Classes

RecordProcurementPanel

- recordProcurementButton : Button
- procurementId : TextBox
- procurementIdError : Label
- staffCode : TextBox
- staffCodeError : Label
- staffNameLabel : Label
- materialCode : TextBox
- materialCodeError : Label
- materialNameLabel : Label
- amount : NumericTextBox
- amountError : Label
- requestedDate : TextBox
- requestedDateError : Label
- processStatusMessageLabel : Label
- recordProcurement(procurementId, staffCode, materialCode, amount, requestedDate)
- show(staffName, materialName, processStatusMessage)

RecordDeliveryPanel

- recordDeliveryButton : Button
- procurementId : TextBox
- procurementIdError : Label
- deliveryDate : TextBox
- deliveryDateError : Label
- processStatusMessage : Label
- recordDelivery(procurementId, deliveryDate)
- show(processStatusMessage)

RecordPaymentPanel

- recordPaymentButton : Button
- paymentld : TextBox
- paymentIdError : Label
- supplierCode : TextBoxsupplierCodeError : Label
- supplierCodeError : Label supplierNameLabel : Label
- invoiceDetailsArray : Array of TextBox
- invoiceErrorArray : Array of Label
- invoiceDate : TextBox
- invoiceDateError : Label
- processStatusMessage : Label
- recordQuarterlyPayment(paymentld, supplierCode, invoiceDetail, invoiceDate)
- show(supplierName, processStatusMessage)

CompletedPaymentsPanel

- recordPaymentCompletedButton : Button
- paymentld : TextBox
- paymentIdError : Label
- paymentDate : TextBox
- paymentDateError : LabelprocessStatusMessage : Label
- recordPaymentCompleted(paymentId, paymentDate)
- show(processStatusMessage)

DBAccess

- + singleRowSearch(tableName, columnNameArray, condition): array
- + singleRowInsert(tableName, columnNameArray, columnValuesArray): boolean
- + rowUpdate(tableName, columnNameArray, columnValueArray, condition): boolean

AccountingSystemInterface

+ requestQuarterlyPayment(quarterlyPayment)

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Control Classes

ProcurementControl

- procurement : Procurement
- + getStaff(staffCode): ProcurementStaff
- + getMaterial(materialCode): Material
- + getProcurement(procurementId) : Procurement
- + recordProcurement(procurementId, staffCode, materialCode, amount, requestedDate): boolean
- + recordDelivery(procurementId, deliveryDate): boolean

QuarterlyPaymentControl

- procurementList : array
- quarterlyPayment : QuarterlyPayment
- + getSupplier(supplierCode): Supplier
- + checkInvoiceDetails(supplierCode, invoiceDetails): boolean
- + getQuarterlyPayment(paymentId) : QuarterlyPayment
- + recordQuarterlyPayment(paymentId, supplierCode, invoiceDetails, invoiceDate): boolean
- + setQuarterlyPaymentCompleted(paymentId, paymentDate) : boolean

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Domain (Model) Classes

ProcurementStaff

- staffCode : Stringname : StringdbAccess : DBAccess
- + ProcurementStaff(staffCode, dbAccess)
- + getName() : String + checkStaff() : boolean

Material

- materialCode : String
- name : String
- dbAccess : DBAccess
- + Material(materialCode, dbAccess)
- + getName(): String
- + checkMaterial(): boolean

Supplier

- supplierCode : String
- name : String
- dbAccess : DBAccess
- + Supplier(supplierCode, dbAccess)
- + getName(): String
- + checkSupplier(): boolean

Procurement

- procurementId : StringstaffCode : StringmaterialCode : String
- amount : Integer
- requestedDate : DatedeliveryDate : Date
- procurementStatus : String
- paymentId : StringdbAccess : DBAccess
- + Procurement(procurementId, staffCode, materialCode, amount, requestedDate, dbAccess): void
- + Procurement(procurementId, dbAccess)
- + Procurement(procurementStatus, paymentId, dbAccess)
- + getProcurementId(): String
- + getProcurementStatus(): String
- + setProcurementStatus(procurementStatus)
- + setDeliveryDate(deliveryDate)
- + setPaymentld(paymentld)
- + addProcurement() : boolean
- + checkProcurement() : boolean
- + setDeliveryCompleted(): boolean
- + setPaymentRequested() : boolean
- + setPaymentCompleted() : boolean

QuarterlyPayment

- paymentld : String
- supplierCode : String
- invoiceDate : Date
- paymentDate : Date
- paymentStatus : StringdbAccess : DBAccess
- + QuarterlyPayment(paymentId, supplierCode, invoiceDate, paymentStatus, dbAccess)
- + QuarterlyPayment(paymentld, dbAccess)
- + getPaymentStatus() : String
- + setPaymentStatus(paymentStatus)
- + setPaymentDate(paymentDate)
- + addQuarterlyPayment(): boolean
- + checkQuarterlyPayment() : boolean
- + setQuarterlyPaymentCompleted(): boolean