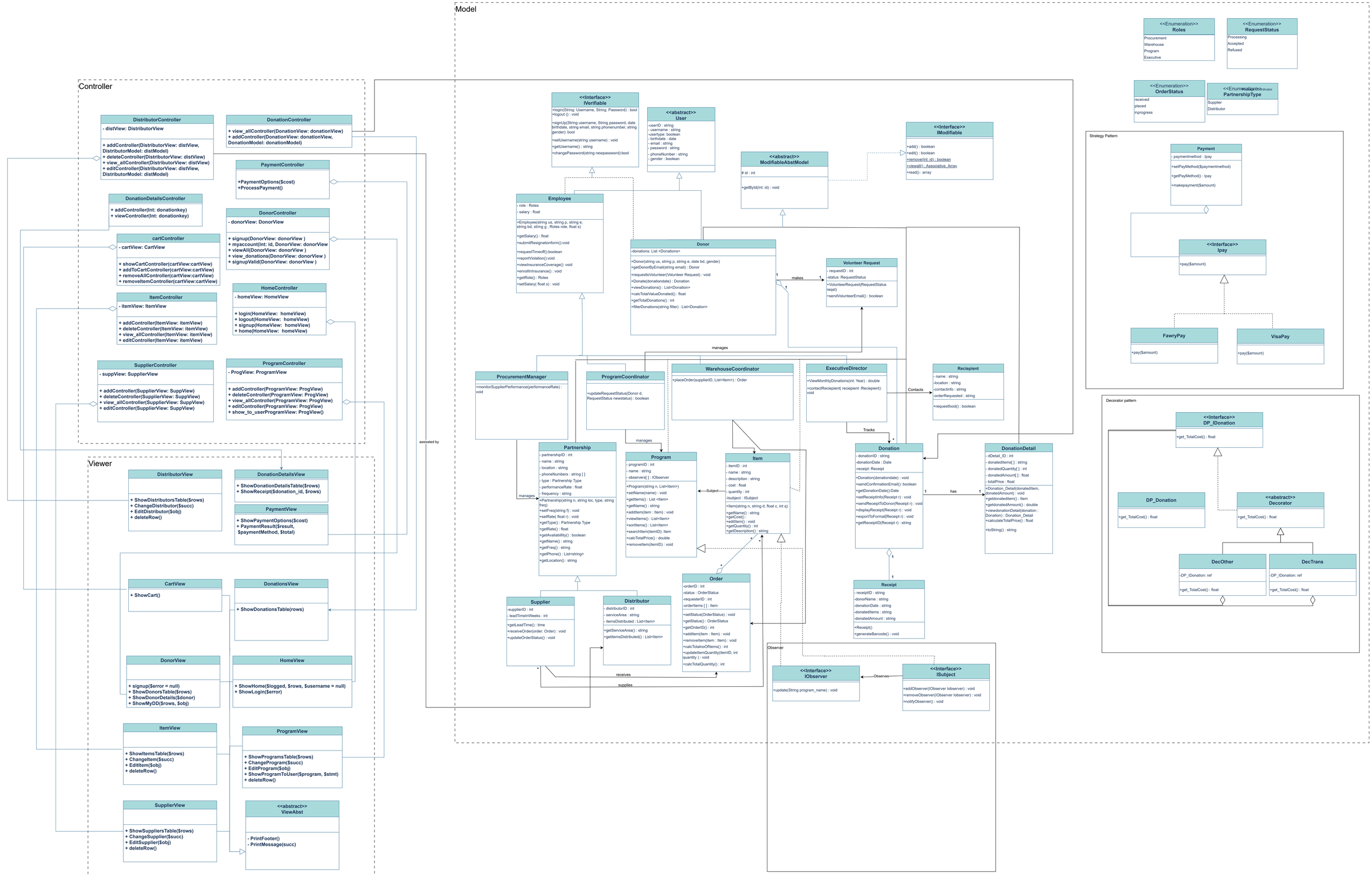
Model
Controller
Viewer
Strategy Pattern
Decorator pattern
Observer
<<Enumeration>>
Roles
Procurement
Warehouse
Program
Executive
<<Enumeration>>
RequestStatus
Processing
Accepted
Refused
<<Enumeration>>
OrderStatus
received
placed
inprogress
<<Enumeration>>
PartnershipType
Supplier
Distributor
<<Interface>>
IVerifiable
+login(String: Username, String: Password) : bool
+logout () : void
+signUp(String username, String password, date birthdate, string email, string phonenumber, string gender): bool
+setUsername(string username) : void
+getUsername() : string
+changePassword(string newpassword):bool
<<abstract>>
User
-userID : string
- username : string
-usertype: boolean
- birthdate : date
- email : string
- password : string
- phoneNumber : string
- gender : boolean
<<Interface>>
IModifiable
+add() : boolean
+edit() : boolean
+remove(Int: id) : boolean
+viewall() : Associative_Array
+read() : array
<<abstract>>
ModifiableAbstModel
# id : int
+getById(Int: id) : void
Employee
- role : Roles
- salary : float
+Employee(string us, string p, string e, string bd, string g , Roles role, float s)
+getSalary() : float
+submitResignationform():void
+requestTimeoff():boolean
+reportViolation():void
+viewInsuranceCoverage(): void
+enrollInInsurance() : void
+getRole() : Roles
+setSalary( float s) : void
Donor
-donations: List <Donations>
+Donor(string us, string p, string e, date bd, gender)
+getDonorByEmail(string email) : Donor
+requesttoVolunteer(Volunteer Request) : void
+Donate(donationdate) : Donation
+viewDonations() : List<Donation>
+calcTotalValueDonated() : float
+getTotalDonations() : int
+filterDonations(string filter) : List<Donation>
makes
1
1
1
Volunteer Request
- requestID : int
-status: RequestStatus
+VolunteerRequest(RequestStatus reqst)
+sendVolunteerEmail() : boolean
manages
ProcurementManager
+monitorSupplierPerformance(performanceRate) : void
ProgramCoordinator
+updateRequestStatus(Donor d, RequestStatus newstatus) : boolean
WarehouseCoordinator
+placeOrder(supplierID, List<Item>) : Order
ExecutiveDirector
+ViewMonthlyDonations(int: Year) : double
+contactReciepient( reciepient :Reciepient): void
Contacts
Reciepient
- name : string
-location : string
-contactinfo : string
-orderRequested : string
+requestfood() : boolean
Tracks
*
Partnership
- partnershipID : int
- name : string
- location : string
- phoneNumbers : string [ ]
- type : Partnership Type
- performanceRate : float
- frequency : string
+Partnership(string n, string loc, type, string freq)
+setFreq(string f) : void
+setRate( float r) : void
+getType() : Partnership Type
+getRate() : float
+getAvailability() : boolean
+getName() : string
+getFreq() : string
+getPhone() : List<string>
+getLocation() : string
manages
Program
- programID : int
- name : string
- observers[ ] : IObserver
+Program(string n, List<Item>)
+setName(name) : void
+getItems() : List <Item>
+getName() : string
+addItem(Item : Item) : void
+viewItems() : List<Item>
+sortItems() : List<Item>
+searchItem(itemID): Item
+calcTotalPrice() : double
+removeItem(itemID) : void
Subject
Item
- itemID : int
- name : string
- description : string
- cost : float
- quantity : int
-Isubject : ISubject
+Item(string n, string d, float c, int q)
+getName() : string
+getCost() :
+editItem() : void
+getQuantity() : int
+getDescription() : string
Donation
-donationID : string
-donationDate : Date
-receipt: Receipt
+Donation(donationdate) : void
+sendConfirmationEmail() : boolean
+getDonationDate():Date
+setReceiptInfo(Receipt r) : void
+sendReceiptToDonor(Receipt r) : void
+displayReceipt(Receipt r) : void
+exportToFormat(Receipt r) : void
+getReceiptID(Receipt r) : string
1
has
1
DonationDetail
- dDetail_ID : int
- donatedItems[ ] : string
- donatedQuantity[ ] : int
- donatedAmount[ ] : float
- totalPrice : float
+Donation_Detail(donatedItem, donatedArnount) : void
+getdonatedItem() : Item
+getdonatedAmount() : double
+viewdonationDetail(donation : Donation) : Donation_Detail
+calculateTotalPrice() : float
+toString() : string
1
1
Receipt
- receiptID : string
-donorName : string
-donationDate : string
-donatedItems : string
-donatedAmount : string
+Receipt()
+generateBarcode() : void
Order
-orderID : int
-status : OrderStatus
-requesterID : int
-orderItems [ ] : Item
+setStatus(OrderStatus) : void
+getStatus() : OrderStatus
+getOrderID() : int
+addItem(item : Item) : void
+removeItem(item : Item) : void
+calcTotalnoOfItems() : int
+updateItemQuantity(itemID, int quantity ) : void
+calcTotalQuantity() : int
*
*
*
Supplier
-supplierID : int
- leadTimeInWeeks : int
+getLeadTime() : time
+receiveOrder(order: Order) : void
+updateOrderStatus() : void
Distributor
- distributorID : int
- serviceArea : string
- itemsDistributed : List<Item>
+getServiceArea() : string
+getItemsDistributed() : List<Item>
*
receives
supplies
<<Interface>>
IObserver
+update(String program_name) : void
Observes
<<Interface>>
ISubject
+addObserver()(Observer lobserver) : void
+removeObserver()(Observer lobserver) : void
+notifyObserver() : void
Payment
- paymentmethod : Ipay
+setPayMethod($paymentmethod)
+getPayMethod() : Ipay
+makepayment($amount)
<<Interface>>
Ipay
+pay($amount)
FawryPay
+pay($amount)
VisaPay
+pay($amount)
<<Interface>>
DP_IDonation
+get_TotalCost() : float
DP_Donation
+get_TotalCost() : float
<<abstract>>
Decorator
+get_TotalCost() : float
DecOther
-DP_IDonation: ref
+get_TotalCost() : float
DecTrans
-DP_IDonation: ref
+get_TotalCost() : float
DistributorController
- distView: DistributorView
+ addController(DistributorView: distView, DistributorModel: distModel)
+ deleteController(DistributorView: distView)
+ view_allController(DistributorView: distView)
+ editController(DistributorView: distView, DistributorModel: distModel)
DonationController
+ view_allController(DonationView: donationView)
+ addController(DonationView: donationView, DonationModel: donationModel)
PaymentController
+PaymentOptions($cost)
+ProcessPayment()
DonationDetailsController
+ addController(Int: donationkey)
+ viewController(Int: donationkey)
DonorController
- donorView: DonorView
+ signup(DonorView: donorView )
+ myaccount(Int: id, DonorView: donorView
+ viewAll(DonorView: donorView )
+ view_donations(DonorView: donorView )
+ signupValid(DonorView: donorView )
cartController
- cartView: CartView
+ showCartController(cartView:cartView)
+ addToCartController(cartView:cartView)
+ removeAllController(cartView:cartView)
+ removeItemController(cartView:cartView)
HomeController
- homeView: HomeView
+ login(HomeView: homeView)
+ logout(HomeView: homeView)
+ signup(HomeView: homeView)
+ home(HomeView: homeView)
ItemController
- itemView: ItemView
+ addController(ItemView: itemView)
+ deleteController(ItemView: itemView)
+ view_allController(ItemView: itemView)
+ editController(ItemView: itemView)
SupplierController
- suppView: SupplierView
+ addController(SupplierView: SuppView)
+ deleteController(SupplierView: SuppView)
+ view_allController(SupplierView: SuppView)
+ editController(SupplierView: SuppView)
ProgramController
- ProgView: ProgramView
+ addController(ProgramView: ProgView)
+ deleteController(ProgramView: ProgView)
+ view_allController(ProgramView: ProgView)
+ editController(ProgramView: ProgView)
+ show_to_userProgramView: ProgView()
assisted by
DistributorView
+ ShowDistributorsTable($rows)
+ ChangeDistributor($succ)
+ EditDistributor($obj)
+ deleteRow()
DonationDetailsView
+ ShowDonationDetailsTable($rows)
+ ShowReceipt($donation_Id, $rows)
PaymentView
+ ShowPaymentOptions($cost)
+ PaymentResult($result, $paymentMethod, $total)
CartView
+ ShowCart()
DonationsView
+ ShowDonationsTable(rows)
DonorView
+ signup($error = null)
+ ShowDonorsTable($rows)
+ ShowDonorDetails($donor)
+ ShowMyDD($rows, $obj)
HomeView
+ ShowHome($logged, $rows, $username = null)
+ ShowLogin($error)
ItemView
+ ShowItemsTable($rows)
+ ChangeItem($succ)
+ EditItem($obj)
+ deleteRow()
ProgramView
+ ShowProgramsTable($rows)
+ ChangeProgram($succ)
+ EditProgram($obj)
+ ShowProgramToUser($program, $stmt)
+ deleteRow()
SupplierView
+ ShowSuppliersTable($rows)
+ ChangeSupplier($succ)
+ EditSupplier($obj)
+ deleteRow()
<<abstract>>
ViewAbst
- PrintFooter()
- PrintMessage(succ)