# Model

# Vegetable details of Order

# Order Details of a Customer

# **User Module**

OrderItem

Long orderId

String vegName

Double price
Integer quantity
Double eachVegPrice

OrderDetails contains OrderItem

OrderDetails

Long orderId

String username

Double totalBill

String status

Boolean active

Timestamp createdDate

Date deliveryDate

String feedback

List<OrderItem> orderItems

String paymentMethod

UserDetail

String name
int age
String gender
String email
String username
String password
String role

# Before confirmation of order

BillDetail
String vegName

int price

Double eachVegBill

int quantity

# Vegetables Available in shop

VegDetail
String vegName
int price
int quantity

# Service

#### Service related to sales

#### SalesService

getBill( String[] selectedVegs, String[] quantities) -> List<BillDetail>

getTotalBill(List<BillDetail> billDetails) - > Double

getDateTime() -> String

getNewStockQuantity(OrderItem vegetable) - > Integer

storeOrderDetails(String username, List<BillDetail> billDetails, String paymentMethod, String deliveryDateStr)

getAllOrderDetails() - > List<OrderDetail>

storeOrderItems(List<BillDetail> billDetails, Long orderId)

getCurrentDeliveryOrders() - > List<OrderDetail>

setStatusAsDelivered(Long orderId) -> Boolean

setStatusAsCanceled(Long orderld -> Boolean

#### Service related to user details

#### UserService

addUser(UserDetail user)

loginValidation(String username, String password -> String

removeAccount(String username)

changeEmailToLowerCase(UserDetail user) -> UserDetail

updateName(String newName, String username)

updateMobileNumber(long newMobileNumber, String username)

updateEmail(String newEmail, String username)

getAllUsers() -> List<UserDetail>

# Service related to shop vegetables

#### VegetableService

addVeg(VegDetail vegetable)

removeVeg(String vegName)

setVegNameLowercase(VegDetail vegetable) -> VegDetail

getVegDetails() -> List<VegDetail>

# Validator

#### Used to validate Bill

	BillValidator	
isBillValid(List <billdetail> billDetails)</billdetail>		

# Used to validate login

UserLoginValidator	
userValidator(String username, String passwo	ord) -> Boolean

#### Used to validate user details

UserValidator

# isUserValid(UserDetail user) -> Boolean isUserNotRepeated(UserDetail user) - > Boolean isUsernamePresent(String username) - > Boolean isMobileNotRepeated(long mobileNumber) -> Boolean isEmailNotRepeated(String email) -> Boolean isUpdateNameValid(String newName, String username) -> Boolean isUpdateMobileValid(long newNumber, String username) -> Boolean isUpdateEmailValid(String newEmail, String username) -> Boolean

#### Used to validate common

# boolean isStringValid(String name) -> Boolean isNumberValid(int number) -> Boolean isPasswordValid(String password) -> Boolean isEmailValid(String email) -> Boolean isUsernameValid(String username) -> Boolean isMobileValid(long mobileNumber) -> Boolean

#### used to validate vegetable

# VegetableValidator

isVegMatches(String vegName) -> Boolean isVegNotRepeated(String vegName) -> Boolean

# Exceptions

	User Defined Exceptions
	Osei Beillea Exceptions
DBException	
EmptyBillException	
InvalidLoginException	
InvalidQuantityException	
InvalidSelectionException	
UserInvalidException	
UserRepeatedException	
VegInvalidException	

DAO

#### SalesDetailsDAO

saveOrderItems(long orderId, OrderItem vegetable)

saveOrderDetails(OrderDetail order)

findOrderId(OrderDetail order) - > Long

findAllOrderDetails() -> List<OrderDetail>

findOrderItemsById(Long orderId) -> List<OrderItem>

findOrdersForDelivery(Date date, String status) -> List<OrderDetail>

updateStatus(String status, Long orderld) -> Boolean

#### UserDetailDAO

addUser(UserDetail user)

getUserDetails() -> List<UserDetail>

removeUser(String username)

updateName(String newName, String username)

updateMobile(long newNumber, String username)

updateEmail(String newEmail, String username)

getRole(String username, String password) -> String

# VegDetailDAO

saveVeg(VegDetail vegetable)

findAll() -> List<VegDetail>

deleteVegByName(String name)

findPriceByName(String name)

findStockByName(String name)

updateStock(String name, int newStock)

DTO

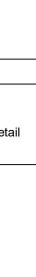
#### **BillDetailsDTO**

getBillForVeg(String[] selectedVeg, String[] quantities, List<Double> eachVegBill) -> List<BillDetail>

# SalesDetailDTO

setOrderDetailsForOutput(OrderDetail orderDetail, List<OrderItem> orderItems) -> OrderDetail setOrderItems(List<BillDetail> vegDetails) -> List<OrderItem>

setOrderDetailsForDb(String username, double totalBill, Timestamp createdDateTime, Date deliveryDate, String paymentMethod) -> OrderDetailsForDb(String username, double totalBill, Timestamp createdDateTime, Date deliveryDate, String paymentMethod) -> OrderDetailsForDb(String username, double totalBill, Timestamp createdDateTime, Date deliveryDate, String paymentMethod) -> OrderDetailsForDb(String username, double totalBill, Timestamp createdDateTime, Date deliveryDate, String paymentMethod) -> OrderDetailsForDb(String username, double totalBill, Timestamp createdDateTime, Date deliveryDate, String paymentMethod) -> OrderDetailsForDb(String username, double totalBill, Timestamp createdDateTime, Date deliveryDate, String paymentMethod) -> OrderDetailsForDb(String username, double totalBill, Timestamp createdDateTime, Date deliveryDate, String username, double totalBill, Timestamp createdDateTime, Date deliveryDate, String username, double totalBill, Timestamp createdDateTime, Date deliveryDate, String username, double totalBill, Timestamp createdDate (String username), double totalBill, tota



# Servlet

# List Of Servlets AddVegetableServlet CanceledServlet DeliveredServlet DeliveryManServlet GetVegDetailsServlet LoginValidationServlet LogoutServlet OrderConfirmServlet RemoveAccountServlet RemoveVegetableServlet SalesDetailsServlet SelectVegetablesServlet SelfRemoveAccountServlet UpdateEmailServlet UpdateMobileServlet UpdateNameServlet UserRegistrationServlet

ViewUsersServlet

	List Of JSP
addVegetable	
BillPage	
DeliveryDetails	
DeliveryManIndex	
editProfile	
header	
index	
loginPage	
newUserRegistration	
OrderConfirmedPage	
removeAccount	
removeVegetable	
SelectVegetables	
ViewSalesDetails	
viewUsers	