**Object Oriented Analysis**

**CART**

* itemId: int:

* itemName: String:

* quantity: int:

* price: double:

* totalPrice: double:

+ Cart()

+ Cart(int itmId, String iName, int quan, double pr,double tpr)

+ setItemId(int id): void

+ setItemName(String iName)

+ setQuantity(int qid)

+ setPrice(double pr)

+ setTotalPrice(double tpr)

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+ getItemId(): int

+ getItemName(): String

+ getQuantity():int

+ + getPrice():double

+ getTotalPrice():double

**ITEM**

- itemId: int

- uniqueName: String

- name: String

- price: double

- preparationtTime: int

- quantity: int

- String imageUrl: String

- timestamp: Timestamp

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+ Item()

+ Item(int itemId, String name, String imageUrl,double price, int prepTime, int quantity)

+ setItemId(int id): void

+ setImageUrl(String url): void

+ setName(String name): void

+ setPrice(double price): void

+ setPrepTime(int prepTime): void

+ setQuantity(int quantity): void

+ getItemId(): int

+ getName():String

+ getPrice(): double

+ getPrepTime(): int

+ getQuantity(): int

+ getUniqueName():String

+ getTimestamp():Timestamp

+ getImageUrl():String

**ORDER**

- orderId: int

- items: ArrayList<Item>

- user: User

- totalPrepTime: int

- totalPrice: double

- orderStatus: Status

- orderNumber: String

- timestamp: Timestamp

+ Order()

+ Order(int orderId, ArrayList<Item> items, User user, int prepTime, double totalPrice, String onum)

+ setOrderId(int orderId):void

+ setOrderStatus(Status status) :void

+ setOrderNumber(String onum) :void

+ setItems(ArrayList<Item> items) :void

+ setUser(User user) :void

+ setTotalPrepTime(int prepTime):void

+ setTotalPrice(double tPrice) :void

+ getOrderId(): int

+ getItems():ArrayList<Item>

+ getUser():User

+ getOrderNumber():String

+ getPrepTime(): int

+ getTotalPrice(): double

+ getOrderStatus(): Status

+ getTimeStamp():Timestamp

**USER**

- Id: long

- FirstName: String

- LastName: String

- EmailAddress: String

- Password: String

- PhoneNumber: String

- UserType: UserType

- Timestamp: Timestamp

+ User()

+ User(String fName, String lName, String eMail, String pWord,String pNumber, UserType uType)

+ long getUserId()

+ getFirstName():String

+ getLastName():String

+ getEmailAddress():String

+ getPhoneNumber():String

+ getUserType():UserType

+ getPassword():String

+ getTimeStamp():Timestamp

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+ setFirstName(String FirstName) :void

+ setLastName(String LastName) :void

+ setPassword(String Password) :void

+ setEmailAddress(String EmailAddress):void

+ setPhoneNumber(String PhoneNumber) :void

+ setUserType(UserType UserType) :void

+ setUserId(long id) :void

**IDATAMANIPULATION (interface)**

+ int GetCurrentId():

+ Add(T obj): boolean

+ Add(ArrayList<T> lObj) : boolean

+ Delete(Object id) : boolean

+ Delete(ArrayList<Object> lObj) : boolean

+ Edit(T obj) : boolean

+ Edit(ArrayList<Object> lObj) : boolean

+ GetSingle(Object id) : T

+ GetAll(): ArrayList<T>

+ Query(Object params): ArrayList<T>

+ toJson(T o): String

+ toJson(ArrayList<T> o): String

+ fromJson(String str): T

+ fromJsonArray(String str): ArrayList<T>

**IDISPLAYUSERERROR**

+ setError(String msg): void

+ setDefault():void

**INITWRAPPER**

+ initBindings(): void

+ activateListeners(): void

**CACHEHELPER**

- Username: String

- UType: UserType

- Useremail: Sting

- EditItem: Item

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+ CacheHelper()

+ getUsername():String

+ getUseremail():String

+ getUserType():UserType

+ getItem():Item

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+ setUsername(String name): void

+ setItem(Item itm) : void

+ setUseremail(String email) : void

+ setUsertype(UserType utype): void

CUSTOMSCENEBUILDER

+ BuildCustomerItemVBox(Item item): VBox

+ BuildAnchorPane():AnchorPane

+ BuildDShadow)(): DropShadow

+ BuildLabel(Object str): Label

+ BuildCustomerOrderItemHBox(Order item): HBox

+ BuildAdminOrderItemHBox(Order item): HBox

+ BuildAdminItemVBox(Item item): VBox

**EMAILHELPER**

+ EmailHelper(String toEmail, String subject, String msg)

**FILEHELPER**

- absolutePath:String

- fname: String

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+ FileHelper()

+ FileHelper(String fileName)

+ create() : boolean

+ write(String data): int

+ read(): String

+ setFileName(String fname): void

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+ getFileName():String

**GENERALHELPER**

+ EncodeString(String str): String

+ DecodeString(String str) : String

+ isNumeric(String strNum) : boolean

**ITEMSHELPER**

* fp: FileHelper:

- json: Gson

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+ cartItems: ArrayList<Cart>

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**ORDERSSHELPER**

* fp: FileHelper:

- json: Gson

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+ cartItems: ArrayList<Cart>

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**PATHHELPER**

+ fileAbsPath: String

+ imageAbsPath:String

**RUNTIMEHELPER**

+ loadItems(Parent p): void

+ loadAdminItems(Parent p) : void

+ loadItemsPartial(Parent p) : void

+ loadIOrdersPartial(Parent p) : void

+ loadItemsInCart(Parent p) : void

+ searchItems(Parent p, List<String> res) : void

+ loadOrders(Parent p) : void

**TIMEHELPER**

- counter: int

- secCounter: int

- sec: int

- period: int

- secPeriod: int

- orderTime: int

- display: StringProperty

- orderId: int

- oh : OrdersHelper

- void minusHandler()

- void secHandler()

+ TimeHelper(int orderTime1, StringProperty sp, int orderId1)

+ void createThreads()

**USERHELPER**

+ getUsers():ArrayList<User>

+ getCurrentUserId():int

+ userExist(String email): boolean

+ AddUser(User u) : void

+ getUserByEmail(String email): User

+ getUserByEmailType (String email, UserType utype): User

+ loginUser(String email, String pword, UserType utype): boolean

**SCENESHANDLER**

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- login\_stage:Stage

- dashboard\_stage: Stage

- register\_stage: Stage

- item\_stage: Stage

- edit\_item\_stage: Stage

- alert\_stage: Stage

- cart\_stage: Stage

- customer\_stage: Stage

- setIcon(Stage s): void

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+ LoginStage(Stage s): void

+ DashboardStage(Stage s) : void

+ CustomerStage(Stage s) : void

+ RegisterStage(Stage s) : void

+ ItemStage(Stage s) : void

+ EditItemStage(Stage s) : void

+ AlertStage(Stage s) : void

+ CartStage(Stage s) : void

+ getLoginStage()

+ getDashboardStage(): Stage

+ getCustomerStage(): Stage

+ getRegisterStage(): Stage

+ getItemStage(): Stage

+ getEditItemStage(): Stage

+ getAlertStage(): Stage

+ getCartStage(): Stage

**ALERTDIALOGCONTROLLER**

* result: Label
* alertError: StringProperty

+ showError(String str): void

CARTVIEWCONTROLLER

- total: Label

- taxes : Label

- grandtotal: Label

- orderitem: Button

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+ addOrder():void

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**CUSTOMERDASHCONTROLLER**

- username : Label

- usertype : Label

- cartcount : Label

- refreshBtn : Button

- cardadd : Button

- logout : ImageView

- searcharea : TextField

- viewcartitems : ImageView

- vpane : VBox

* tpane:TilePane

* error : SimpleStringProperty

- uNameBinder : SimpleStringProperty

* uTypeBinder : SimpleStringProperty
* setListeners():void
* viewcart():void

* signOff():void

* refreshScreen():void

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+ customerDashIntProp: StringProperty